

Missouri Department of Natural Resources  
Air Pollution Control Program

## PART 70 PERMIT TO OPERATE

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to operate the air contaminant source(s) described below, in accordance with the laws, rules, and conditions set forth herein.

**Operating Permit Number:** OP2010-045  
**Expiration Date:** MAY 20 2015  
**Installation ID:** 097-0095  
**Project Number:** 2003-09-002

**Installation Name and Address**

Able Manufacturing and Assembly, LLC  
3942 West 7<sup>th</sup> Street  
Joplin, MO 64801  
Jasper County

**Parent Company's Name and Address**

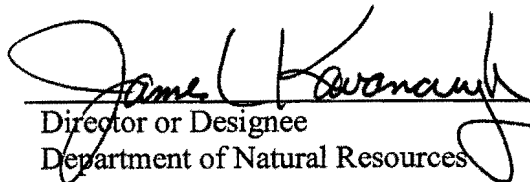
Able Manufacturing & Assembly, LLC  
1000 Schifferdecker Avenue  
Joplin, MO 64801

**Installation Description:**

This installation manufactures fiberglass cabs, hoods and associated products for highway transport tractors by the open mold, lay-up process. The facility is a major source of Volatile Organic Compounds (VOCs) and Hazardous Air Pollutants (HAPs).

MAY 21 2010

Effective Date

  
Director or Designee  
Department of Natural Resources

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## I. Installation Description and Equipment Listing

### INSTALLATION DESCRIPTION

This installation manufactures fiberglass cabs, hoods and associated products for highway transport tractors by the open mold, lay-up process. The facility is a major source of Volatile Organic Compounds (VOCs) and Hazardous Air Pollutants (HAPs).

Reported Air Pollutant Emissions, tons per year		
Year	Volatile Organic Compounds (VOC)	Hazardous Air Pollutants (HAP)
2008	123.82	98.14
2007	136.05	66.97
2006	89.14	79.79
2005	46.47	39.64
2004	61.68	49.74

Note: This installation reports HAPs as VOCs in the EIQ. This table lists pollutants as both VOC and HAP if they meet both definitions.

### EMISSION UNITS WITH LIMITATIONS

The following list provides a description of the equipment at this installation that emits air pollutants and that are identified as having unit-specific emission limitations.

Emission Unit #	Description of Emission Unit
EU0010	Lamination Area A (booths AF-1 through AF-4), EP-01 AF-1 Resin Spray Layup (non-vapor-suppressed) AF-2 Resin Spray Layup (non-vapor-suppressed) AF-3 Gel Coat: Spray On AF-4 Gel Coat: Spray On
EU0020	Lamination Area B (booths AF-10 and AF-11), EP-02 AF-10 Surface Coating Booth AF-11 Gel Coat: Spray On and Resin Spray Layup (non-vapor-suppressed)
EU0030	Lamination Area C (booths AF-6 and AF-7), EP-03 AF-6 Gel Coat: Spray On AF-7 Resin Spray Layup (non-vapor-suppressed)

### EMISSION UNITS WITHOUT LIMITATIONS

The following list provides a description of the equipment that does not have unit specific limitations at the time of permit issuance.

#### Description of Emission Source

Small Parts Assembly – trimming, drilling and gel coat and/or resin spray repair, EP-05  
 Large Parts Assembly – trimming, drilling and gel coat and/or resin spray repair, EP-06  
 Mold Preparation and Repair, EP-07  
 Space Heaters, Natural Gas < 2 MMBtu/hour Heat Input

**DOCUMENTS INCORPORATED BY REFERENCE**

These documents have been incorporated by reference into this permit.

- 1) Construction Permit No. 0191-010, Issued February 6, 1991
- 2) Construction Permit No. 1297-004A, Issued January 27, 1998

## II. Plant Wide Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

**PERMIT CONDITION PW001**  
10 CSR 10-6.060 Construction Permits Required  
Construction Permit No. 1297-004A, Issued January 27, 1998

### **Emission Limitation:**

1. Special Condition 1: Emission Limitation – Volatile Organic Compounds  
The permittee shall not discharge into the atmosphere from this facility volatile organic compounds (VOC) in excess of 250 tons in any consecutive 12-month period.
2. Special Condition 2: Emission Limitation – Styrene  
The permittee shall not discharge into the atmosphere from this facility styrene in excess of 201.6 tons in any consecutive 12-month period.
3. Emission Limitation – Styrene  
The permittee shall not discharge into the atmosphere from this facility styrene in excess of 2000 pounds in any consecutive twenty four (24) hour period. (Please note that this permit limit has been changed from a daily styrene limit per stack contained in the original construction permit to a daily facility-wide styrene limit. This change was requested in the permit renewal application as a proposed condition. Based upon refined modeling results, this change in styrene limits was approved. See the Statement of Basis for additional conditions required to support this change in daily styrene limits.)

### **Recordkeeping:**

1. The permittee shall maintain an accurate record of emissions of styrene emitted into the atmosphere from this installation. The permittee shall record the daily, monthly and running 12-month totals of styrene emissions from this facility. Styrene emissions may be calculated using CFA UEF emission factors. The permittee may use Attachments E and F or equivalent forms for this purpose.
2. The permittee shall maintain an accurate record of emissions of VOC emitted into the atmosphere from this installation. The permittee shall record the monthly and running 12-month totals of VOC emissions from this facility. The permittee may use Attachments G and H or equivalent forms for this purpose.
3. The permittee shall maintain records on-site for the most recent sixty (60) months of all records required by this permit and shall immediately make such records available to any Missouri Department of Natural Resources' personnel upon request.

### **Reporting:**

1. The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after the end of each month, if:
  - a) the 12-month cumulative total styrene records show that the source exceeded the limitation 201.6 tons of styrene emitted.
  - b) the daily total styrene records show that the source exceeded the limitations of 2000 pounds of styrene emitted.

- c) the 12-month cumulative total VOC records show that the source exceeded the limitations of 250 tons of VOC emitted.

**Odors:**

Special Condition 9: If a continuing situation of demonstrated nuisance odors exists in violation of 10 CSR 10-3.090, the Direction may require the permittee to submit a corrective action plan within ten (10) days adequate to timely and significantly mitigate the odors. The permittee shall implement any such plan immediately upon its approval by the Director. Failure to either submit or implement such a plan will be a violation of this permit.

**Process Requirement – Stack Height:**

Special Condition 10: The permittee shall have a minimum height of fifty (50) feet for each stack, identified as S-1, S-2, S-3, S-4 S-5 and S-6, from this facility. (Note: S-5 has been removed since this permit was issued.)

**PERMIT CONDITION PW002**

10 CSR 10-6.075 Maximum Achievable Control Technology Regulations  
40 CFR Part 63 Subpart WWWW National Emission Standards for Hazardous Air Pollutants:  
Reinforced Plastic Composites Production

**Emission Factors:**

Emissions factors are used in this subpart to determine compliance with the organic HAP emissions limits. You may use the equations in Table 1 to this subpart to calculate your emissions factors. Equations are available for each open molding operation and centrifugal casting operation and have units of pounds of organic HAP emitted per ton (lb/ton) of resin or gel coat applied. These equations are intended to provide a method for you to demonstrate compliance without the need to conduct for a HAP emissions test. In lieu of these equations, you can elect to use site-specific organic HAP emissions factors to demonstrate compliance provided your site-specific organic HAP emissions factors are incorporated in the facility's air emissions permit and are based on actual facility HAP emissions test data. You may also use the organic HAP emissions factors calculated using the equations in Table 1 to this subpart, combined with resin and gel coat use data, to calculate your organic HAP emissions. [§63.5796]

**Table 1 to Subpart WWWW of Part 63-Equations to Calculate Organic HAP Emissions Factors for Specific Open Molding and Centrifugal Casting Process streams<sup>1</sup>**

As specified in §63.5810, use the equations in the following table to calculate organic HAP emissions factors for specific open molding and centrifugal casting process streams:

If your operation type is a new or existing open molding operation and you use...	With...	Use this organic HAP Emissions Factor (EF) Equation for materials with less than 33 percent organic HAP (19 percent organic HAP for nonatomized gel coat) <sup>2 3 4</sup> ...	Use this organic HAP emissions Factor (EF) Equation for materials with 33 percent or more organic HAP (19 percent for nonatomized gel coat) <sup>2 3 4</sup> ...
a. manual resin application	i. nonvapor-suppressed resin	EF = 0.126 x %HAP x 2000	EF = ((0.286 x %HAP) - 0.0529) x 2000
	ii. vapor-suppressed resin	EF = 0.126 x %HAP x 2000 x (1 - (0.5 x VSE factor))	EF = ((0.286 x %HAP) - 0.0529) x 2000 x (1-(0.5 x VSE factor))
	iii. vacuum bagging / closed -mold curing with rollout	EF = 0.126 x %HAP x 2000 x 0.8	EF = ((0.286 x %HAP) - 0.0529) x 2000 x 0.8
	iv. vacuum bagging / closed - mold curing without rollout	EF = 0.126 x %HAP x 2000 x 0.5	EF = ((0.286 x %HAP) - 0.0529) x 2000 x 0.5
b. atomized mechanical resin application	i. nonvapor-suppressed resin	EF = 0.169 x %HAP x 2000	EF = ((0.714 x %HAP) - 0.18) x 2000
	ii. vapor-suppressed resin	EF = 0.169 x %HAP x 2000 x (1 - (0.45 x VSE factor))	EF = ((0.714 x %HAP) - 0.18) x 2000 x (1-(0.45 x VSE factor))
	iii. vacuum bagging / closed-mold curing with roll-out	EF = 0.169 x %HAP x 2000 x 0.85	EF = ((0.714 x %HAP) - 0.18) x 2000 x 0.85
	iv. vacuum bagging / closed-mold curing without roll-out	EF = 0.169 x %HAP x 2000 x 0.55	EF = ((0.714 x %HAP) - 0.18) x 2000 x 0.55
c. nonatomized mechanical resin application	i. nonvapor-suppressed resin	EF = 0.107 x %HAP x 2000	EF = ((0.157 x %HAP) - 0.0165) x 2000
	ii. vapor-suppressed resin	EF = 0.107 x %HAP x 2000 x (1 - (0.45 x VSE factor))	EF = ((0.157 x %HAP) - 0.0165) x 2000 x (1 - (0.45 x VSE factor))
	iii. closed-mold curing with roll-out	EF = 0.107 x %HAP x 2000 x 0.85	EF = ((0.157 x %HAP) - 0.0165) x 2000 x 0.85
	iv. vacuum bagging / closed-mold curing without roll-out	EF = 0.107 x %HAP x 2000 x 0.55	EF = ((0.157 x %HAP) - 0.0165) x 2000 x 0.55

**Table 1 continued...**

If your operation type is a new or existing open molding operation and you use...	With...	Use this organic HAP Emissions Factor (EF) Equation for materials with less than 33 percent organic HAP (19 percent organic HAP for nonatomized gel coat) <sup>2,3,4</sup> ...	Use this organic HAP emissions Factor (EF) Equation for materials with 33 percent or more organic HAP (19 percent for nonatomized gel coat) <sup>2,3,4</sup> ...
d. atomized mechanical resin application with robotic or automated spray control <sup>5</sup>	nonvapor-suppressed resin	EF = 0.169 x %HAP x 2000 x 0.77	EF = 0.77 x ((0.714 x %HAP)-0.18) x 2000
e. filament application <sup>6</sup>	i. nonvapor-suppressed resin	EF = 0.184 x %HAP x 2000	EF = (( 0.2746 x %HAP) - 0.0298) x 2000
	ii. vapor-suppressed resin	EF = 0.12 x %HAP x 2000	EF = (( 0.2746 x %HAP) - 0.0298) x 2000 x 0.65
f. atomized spray gel coat application	nonvapor-suppressed gel coat	EF = 0.445 x %HAP x 2000	EF = ((1.03646 x %HAP) - 0.195) x 2000
g. nonatomized spray gel coat application	nonvapor-suppressed gel coat	EF = 0.185 x %HAP x 2000	EF = ((0.4506 x %HAP) - 0.0505) x 2000
h. atomized spray gel coat application using robotic or automated spray	nonvapor-suppressed gel coat	EF = 0.445 x %HAP x 2000 x 0.73	EF = ((1.03646 x %HAP) - 0.195) x 2000 x 0.73

<sup>1</sup> The equations in this table are intended for use in calculating .emission factors to demonstrate compliance with the emission limits in subpart WWW. These equations may not be the most appropriate method to calculate emission estimates for other purposes. However, this does not preclude a facility from using the equations in this table to calculate emission factors for purposes other than rule compliance if these equations are the most accurate available.

<sup>2</sup> To obtain the organic HAP emissions factor value for an operation with an add-on control device multiply the EF above by the add-on control factor calculated using Equation 1 of §63.5810. The organic HAP emissions factors have units of lbs of organic HAP per ton of resin or gel coat applied.

<sup>3</sup> Percent HAP means total weight percent of organic HAP (styrene, methyl methacrylate, and any other organic HAP) in the resin or gel coat prior to the addition of fillers, catalyst, and promoters. Input the percent HAP as a decimal, i.e., 33 percent HAP should be input as 0.33, not 33 .

<sup>4</sup> The VSE factor means the percent reduction in organic HAP emissions expressed as a decimal measured by the VSE test method of appendix A to this subpart.

<sup>5</sup> This equation is based on a organic HAP emissions factor equation developed for mechanical atomized controlled spray. It may only be used for automated or robotic spray systems with atomized spray. All spray operations using hand held spray guns must use the appropriate mechanical atomized or mechanical nonatomized organic HAP emissions factor equation. Automated or robotic spray systems using nonatomized spray should use the appropriate nonatomized mechanical resin application equation.

<sup>6</sup> Applies only to filament application using an open resin bath. If resin is applied manually or with a spray gun, use the appropriate manual or mechanical application organic HAP emissions factor equation .



**Determining HAP Content of Resins and Gel Coats:**

1. In order to determine the organic HAP content of resins and gel coats, you may rely on information provided by the material manufacturer, such as manufacturer's formulation data and material safety data sheets (MSDS), using the procedures specified in paragraphs (a) through (c) of this section, as applicable. [§63.5797]
  - a) Include in the organic HAP total each organic HAP that is present at 0.1 percent by mass or more for Occupational Safety and Health Administration-defined carcinogens, as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other organic HAP compounds. [§63.5797(a)]
  - b) If the organic HAP content is provided by the material supplier or manufacturer as a range, you must use the upper limit of the range for determining compliance. If a separate measurement of the total organic HAP content, such as an analysis of the material by EPA Method 311 of appendix A to 40 CFR Part 63, exceeds the upper limit of the range of the total organic HAP content provided by the material supplier or manufacturer, then you must use the measured organic HAP content to determine compliance. [§63.5797(b)]
  - c) If the organic HAP content is provided as a single value, you may use that value to determine compliance. If a separate measurement of the total organic HAP content is made and is less than 2 percentage points higher than the value for total organic HAP content provided by the material supplier or manufacturer, then you still may use the provided value to demonstrate compliance. If the measured total organic HAP content exceeds the provided value by 2 percentage points or more, then you must use the measured organic HAP content to determine compliance. [§63.5797(c)]

**Standards:**

1. You must meet the requirements of paragraphs (a) through (h) of this section that apply to you. You may elect to comply using any options to meet the standards described in §§63.5810 through 63.5830. Use the procedures in §63.5799 to determine if you meet or exceed the 100 tpy threshold. [§63.5805]
  - a) All operations at existing facilities not listed in paragraph (a) of this section must meet the organic HAP emissions limits in Table 3 to this subpart and the work practice standards in Table 4 to this subpart that apply, regardless of the quantity of HAP emitted. [§63.5805(b)]
  - b) If you have repair operations subject to this subpart as defined in §63.5785, these repair operations must meet the requirements in Tables 3 and 4 to this subpart and are not required to meet the 95 percent organic HAP emissions reduction requirements in paragraph (a)(1) or (d) of this section. [§63.5805(g)]

**Table 3 to Subpart WWWW of Part 63—Organic HAP Emissions Limits for Existing Open Molding Sources, New Open Molding Sources Emitting Less Than 100 TPY of HAP, and New and Existing Centrifugal Casting and Continuous Lamination/Casting Sources that Emit Less Than 100 TPY of HAP** As specified in §63.5805, you must meet the following organic HAP emissions limits that apply to you:

If your operation type is . . .	And you use . . .	<sup>1</sup> Your organic HAP emissions limit is . . .
1. open molding—corrosion-resistant and/or high strength (CR/HS)	a. mechanical resin application b. filament application c. manual resin application	113 lb/ton. 171 lb/ton. 123 lb/ton.
2. open molding—non-CR/HS	a. mechanical resin application b. filament application c. manual resin application	88 lb/ton. 188 lb/ton. 87 lb/ton.
3. open molding—tooling	a. mechanical resin application b. manual resin application	254 lb/ton. 157 lb/ton.
4. open molding—low-flame spread/low-smoke products	a. mechanical resin application b. filament application c. manual resin application	497 lb/ton. 270 lb/ton. 238 lb/ton.
5. open molding—shrinkage controlled resins <sup>2</sup>	a. mechanical resin application b. filament application c. manual resin application	354 lb/ton. 215 lb/ton. 180 lb/ton.
6. open molding—gel coat <sup>3</sup>	a. tooling gel coating b. white/off white pigmented gel coating c. all other pigmented gel coating d. CR/HS or high performance gel coat e. fire retardant gel coat f. clear production gel coat	440 lb/ton. 267 lb/ton. 377 lb/ton. 605 lb/ton. 854 lb/ton. 522 lb/ton.

<sup>1</sup>Organic HAP emissions limits for open molding and centrifugal casting are expressed as lb/ton. You must be at or below these values based on a 12-month rolling average.

<sup>2</sup>This emission limit applies regardless of whether the shrinkage controlled resin is used as a production resin or a tooling resin.

<sup>3</sup>If you only apply gel coat with manual application, for compliance purposes treat the gel coat as if it were applied using atomized spray guns to determine both emission limits and emission factors. If you use multiple application methods and any portion of a specific gel coat is applied using nonatomized spray, you may use the nonatomized spray gel coat equation to calculate an emission factor for the manually applied portion of that gel coat. Otherwise, use the atomized spray gel coat application equation to calculate emission factors.

**Table 4 to Subpart WWWW of Part 63—Work Practice Standards**

As specified in §63.5805, you must meet the work practice standards in the following table that apply to you:

For ...	You must ...
1. a new or existing closed molding operation using compression/injection molding	uncover, unwrap or expose only one charge per mold cycle per compression/injection molding machine. For machines with multiple molds, one charge means sufficient material to fill all molds for one cycle. For machines with robotic loaders, no more than one charge may be exposed prior to the loader. For machines fed by hoppers, sufficient material may be uncovered to fill the hopper. Hoppers must be closed when not adding materials. Materials may be uncovered to feed to slitting machines. Materials must be recovered after slitting.

2. a new or existing cleaning operation	not use cleaning solvents that contain HAP, except that styrene may be used as a cleaner in closed systems, and organic HAP containing cleaners may be used to clean cured resin from application equipment. Application equipment includes any equipment that directly contacts resin.
3. a new or existing materials HAP-containing materials storage operation	keep containers that store HAP-containing materials closed or covered except during the addition or removal of materials. Bulk HAP-containing materials storage tanks may be vented as necessary for safety.
4. an existing or new SMC manufacturing operation	close or cover the resin delivery system to the doctor box on each SMC manufacturing machine. The doctor box itself may be open.
5. an existing or new SMC manufacturing operation	use a nylon containing film to enclose SMC.
6. all mixing or BMC manufacturing operations <sup>1</sup>	use mixer covers with no visible gaps present in the mixer covers, except that gaps of up to 1 inch are permissible around mixer shafts and any required instrumentation.
7. all mixing or BMC manufacturing operations <sup>1</sup>	close any mixer vents when actual mixing is occurring, except that venting is allowed during addition of materials, or as necessary prior to adding materials or opening the cover for safety. Vents routed to a 95 percent efficient control device are exempt from this requirement.
8. all mixing or BMC manufacturing operations <sup>1</sup>	keep the mixer covers closed while actual mixing is occurring except when adding materials or changing covers to the mixing vessels.

<sup>1</sup>Containers of 5 gallons or less may be open when active mixing is taking place, or during periods when they are in process (i.e., they are actively being used to apply resin). For polymer casting mixing operations, containers with a surface area of 500 square inches or less may be open while active mixing is taking place.

**Compliance Options:**

1. You must use one of the following methods in paragraphs (a) through (d) of this section to meet the standards for open molding or centrifugal casting operations in Table 3 or 5 to this subpart. You may use any control method that reduces organic HAP emissions, including reducing resin and gel coat organic HAP content, changing to nonatomized mechanical application, using covered curing techniques, and routing part or all of your emissions to an add-on control. You may use different compliance options for the different operations listed in Table 3 or 5 to this subpart. The necessary calculations must be completed within 30 days after the end of each month. You may switch between the compliance options in paragraphs (a) through (d) of this section. When you change to an option based on a 12-month rolling average, you must base the average on the previous 12 months of data calculated using the compliance option you are changing to, unless you were previously using an option that did not require you to maintain records of resin and gel coat use. In this case, you must immediately begin collecting resin and gel coat use data and demonstrate compliance 12 months after changing options. [§63.5810]

**Table 5 to Subpart WWWW of Part 63—Alternative Organic HAP Emissions Limits for Open Molding, Centrifugal Casting, and SMC Manufacturing Operations Where the Standards Are Based on a 95 Percent Reduction Requirement**

As specified in §63.5805, as an alternative to the 95 percent organic HAP emissions reductions requirement, you may meet the appropriate organic HAP emissions limits in the following table:

<b>If your operation type is . . .</b>	<b>And you use . . .</b>	<b>Your organic HAP emissions limit is a<sup>1</sup> . . .</b>
1. Open molding—corrosion-resistant and/or high strength (CR/HS)	a. Mechanical resin application	6 lb/ton.
	b. Filament application	9 lb/ton.
	c. Manual resin application	7 lb/ton.
2. Open molding—non-CR/HS	a. mechanical resin application	13 lb/ton.
	b. Filament application	10 lb/ton.
	c. Manual resin application	5 lb/ton.
3. Open molding—tooling	a. Mechanical resin application	13 lb/ton.
	b. Manual resin application	8 lb/ton.
4. Open molding—low flame spread/low smoke products	a. Mechanical resin application	25 lb/ton.
	b. Filament application	14 lb/ton.
	c. Manual resin application	12 lb/ton.
5. Open molding—shrinkage controlled resins	a. Mechanical resin application	18 lb/ton.
	b. Filament application	11 lb/ton.
	c. Manual resin application	9 lb/ton.
6. Open molding—gel coat <sup>2</sup>	a. Tooling gel coating	22 lb/ton.
	b. White/off white pigmented gel coating	22 lb/ton.
	c. All other pigmented gel coating	19 lb/ton.
	d. CR/HS or high performance gel coat	31 lb/ton.
	e. Fire retardant gel coat	43 lb/ton.
	f. Clear production gel coat	27 lb/ton.

<sup>1</sup>Organic HAP emissions limits for open molding and centrifugal casting expressed as lb/ton are calculated using the equations shown in Table 1 to this subpart. You must be at or below these values based on a 12-month rolling average.

<sup>2</sup>These limits are for spray application of gel coat. Manual gel coat application must be included as part of spray gel coat application for compliance purposes using the same organic HAP emissions factor equation and organic HAP emissions limit. If you only apply gel coat with manual application, treat the manually applied gel coat as if it were applied with atomized spray for compliance determinations.

- a) *Demonstrate that an individual resin or gel coat, as applied, meets the applicable emission limit in Table 3 or 5 to this subpart.* [§63.5810(a)]
- i) Calculate your actual organic HAP emissions factor for each different process stream within each operation type. A process stream is defined as each individual combination of resin or gel coat, application technique, and control technique. Process streams within operations types are considered different from each other if any of the following four characteristics vary: the neat resin plus or neat gel coat plus organic HAP content, the gel coat type, the application technique, or the control technique. You must calculate organic HAP emissions factors for each different process stream by using the appropriate equations in Table 1 to this subpart for open molding and for centrifugal casting, or site-specific organic HAP emissions factors discussed in §63.5796. The emission factor calculation should include any and all emission reduction techniques used including any add-on controls. If you are using vapor suppressants to reduce HAP emissions, you must determine the vapor suppressant effectiveness (VSE) by conducting testing according to the procedures specified in appendix A to subpart WWW of 40 CFR Part 63. If you are using an add-on control device to reduce HAP emissions, you must determine the add-on control factor by conducting capture and control efficiency testing using the procedures specified in §63.5850. The organic HAP emissions factor calculated from the equations in Table 1 to this subpart, or a site-specific emissions factor, is multiplied by the add-on control factor to calculate the organic HAP emissions factor after control. Use Equation 1 of this section to calculate the add-on control factor used in the organic HAP emissions factor equations.

$$\text{Add - On Control Factor} = 1 - \frac{\% \text{ Control Efficiency}}{100} \quad \text{Equation 1}$$

Where:

% Control Efficiency = a value calculated from organic HAP emissions test measurements made according to the requirements of §63.5850 to this subpart. [§63.5810(a)(1)]

- ii) If the calculated emission factor is less than or equal to the appropriate emission limit, you have demonstrated that this process stream complies with the emission limit in Table 3 to this subpart. It is not necessary that all your process streams, considered individually, demonstrate compliance to use this option for some process streams. However, for any individual resin or gel coat you use, if any of the process streams that include that resin or gel coat are to be used in any averaging calculations described in paragraphs (b) through (d) of this section, then all process streams using that individual resin or gel coat must be included in the averaging calculations. [§63.5810(a)(2)]
- b) *Demonstrate that, on average, you meet the individual organic HAP emissions limits for each combination of operation type and resin application method or gel coat type.* Demonstrate that on average you meet the individual organic HAP emissions limits for each unique combination of operation type and resin application method or gel coat type shown in Table 3 to this subpart that applies to you. [§63.5810(b)]
- i) Group the process streams described in paragraph (a) to this section by operation type and resin application method or gel coat type listed in Table 3 to this subpart and then calculate a weighted average emission factor based on the amounts of each individual resin or gel coat used for the last 12 months. To do this, sum the product of each individual organic HAP emissions factor calculated in paragraph (a)(1) of this section and the amount of neat resin plus and neat gel coat plus usage that corresponds to the individual factors and divide the numerator by the total amount of neat resin plus and neat gel coat plus used in that operation type as shown in Equation 2 of this section.

$$\text{Average Organic HAP Emissions Factor} = \frac{\sum_{i=1}^n (\text{Actual Process Stream } EF_i \times \text{Material }_i)}{\sum_{i=1}^n \text{Material }_i} \quad \text{Equation 2}$$

Where:

Actual Process Stream  $EF_i$  = actual organic HAP emissions factor for process stream  $i$ , lbs/ton;

Material $_i$  = neat resin plus or neat gel coat plus used during the last 12 calendar months for process stream  $i$ , tons;

$n$  = number of process streams where you calculated an organic HAP emissions factor. [§63.5810(b)(1)(i)]

- (1) You may, but are not required to, include process streams where you have demonstrated compliance as described in paragraph (a) of this section, subject to the limitations described in paragraph (a)(2) of this section, and you are not required to and should not include process streams for which you will demonstrate compliance using the procedures in paragraph (d) of this section. [§63.5810(b)(1)(ii)]
- ii) Compare each organic HAP emissions factor calculated in paragraph (b)(1) of this section with its corresponding organic HAP emissions limit in Table 3 or 5 to this subpart. If all emissions factors are equal to or less than their corresponding emission limits, then you are in compliance. [§63.5810(b)(2)]
- c) *Demonstrate compliance with a weighted average emission limit.* Demonstrate each month that you meet each weighted average of the organic HAP emissions limits in Table 3 or 5 to this subpart that apply to you. When using this option, you must demonstrate compliance with the weighted average organic HAP emissions limit for all your open molding operations, and then separately demonstrate compliance with the weighted average organic HAP emissions limit for all your centrifugal casting operations. Open molding operations and centrifugal casting operations may not be averaged with each other. [§63.5810(c)]
  - i) Each month calculate the weighted average organic HAP emissions limit for all open molding operations and the weighted average organic HAP emissions limit for all centrifugal casting operations for your facility for the last 12-month period to determine the organic HAP emissions limit you must meet. To do this, multiply the individual organic HAP emissions limits in Table 3 or 5 to this subpart for each open molding (centrifugal casting) operation type by the amount of neat resin plus or neat gel coat plus used in the last 12 months for each open molding (centrifugal casting) operation type, sum these results, and then divide this sum by the total amount of neat resin plus and neat gel coat plus used in open molding (centrifugal casting) over the last 12 months as shown in Equation 3 of this section.

$$\text{Weighted Average Emission Limit} = \frac{\sum_{i=1}^n (EL_i \times \text{Material }_i)}{\sum_{i=1}^n \text{Material }_i} \quad \text{Equation 3}$$

Where:

$EL_i$  = organic HAP emissions limit for operation type i, lbs/ton from Tables 3 or 5 to this subpart;

$Material_i$  = neat resin plus or neat gel coat plus used during the last 12-month period for operation type i, tons;

n = number of operations. [§63.5810(c)(1)]

- ii) Each month calculate your weighted average organic HAP emissions factor for open molding and centrifugal casting. To do this, multiply your actual open molding (centrifugal casting) operation organic HAP emissions factors calculated in paragraph (b)(1) of this section and the amount of neat resin plus and neat gel coat plus used in each open molding (centrifugal casting) operation type, sum the results, and divide this sum by the total amount of neat resin plus and neat gel coat plus used in open molding (centrifugal casting) operations as shown in Equation 4 of this section.

$$\text{Actual Weighted Average Organic HAP Emissions Factor} = \frac{\sum_{i=1}^n (\text{Actual Operation } EF_i \times \text{Material}_i)}{\sum_{i=1}^n \text{Material}_i} \text{ Equation 4}$$

Where:

Actual Operation  $EF_i$  = Actual organic HAP emissions factor for operation type i, lbs/ton;

$Material_i$  = neat resin plus or neat gel coat plus used during the last 12 calendar months for operation type i, tons;

n = number of operations. [§63.5810(c)(2)]

- (1) Compare the values calculated in paragraphs (c)(1) and (2) of this section. If each 12-month rolling average organic HAP emissions factor is less than or equal to the corresponding 12-month rolling average organic HAP emissions limit, then you are in compliance. [§63.5810(c)(3)]
- d) *Meet the organic HAP emissions limit for one application method and use the same resin(s) for all application methods of that resin type.* This option is limited to resins of the same type. The resin types for which this option may be used are noncorrosion-resistant, corrosion-resistant and/or high strength, and tooling. [§63.5810(d)]
- i) For any combination of manual resin application, mechanical resin application, filament application, or centrifugal casting, you may elect to meet the organic HAP emissions limit for any one of these application methods and use the same resin in all of the resin application methods listed in this paragraph (d)(1). Table 7 to this subpart presents the possible combinations based on a facility selecting the application process that results in the highest allowable organic HAP content resin. If the resin organic HAP content is below the applicable value shown in Table 7 to this subpart, the resin is in compliance. [§63.5810(d)(1)]

**Table 7 to Subpart WWWW of Part 63**—Options Allowing Use of the Same Resin Across Different Operations That Use the Same Resin Type

As specified in §63.5810(d), when electing to use the same resin(s) for multiple resin application methods, you may use any resin(s) with an organic HAP content less than or equal to the values shown in the following table, or any combination of resins whose weighted average organic HAP content based on a 12-month rolling average is less than or equal to the values shown the following table:

If your facility has the following resin type and application method . . .	The highest resin weight is* * * percent organic HAP content, or weighted average weight percent organic HAP content, you can use for . . .	is . . .
1. CR/HS resins, centrifugal casting <sup>1,2</sup>	a. CR/HS mechanical	<sup>3</sup> 48.0
	b. CR/HS filament application	48.0
	c. CR/HS manual	48.0
2. CR/HS resins, nonatomized mechanical	a. CR/HS filament application	46.4
	b. CR/HS manual	46.4
3. CR/HS resins, filament application	CR/HS manual	42.0
4. non-CR/HS resins, filament application	a. non-CR/HS mechanical	<sup>3</sup> 45.0
	b. non-CR/HS manual	45.0
	c. non-CR/HS centrifugal casting <sup>1,2</sup>	45.0
5. non-CR/HS resins, nonatomized mechanical	a. non-CR/HS manual	38.5
	b. non-CR/HS centrifugal casting <sup>1,2</sup>	38.5
6. non-CR/HS resins, centrifugal casting <sup>1,2</sup>	non-CR/HS manual	37.5
7. tooling resins, nonatomized mechanical	tooling manual	91.4
8. tooling resins, manual	tooling atomized mechanical	45.9

<sup>1</sup>If the centrifugal casting operation blows heated air through the molds, then 95 percent capture and control must be used if the facility wishes to use this compliance option.

<sup>2</sup>If the centrifugal casting molds are not vented, the facility may treat the centrifugal casting operations as if they were vented if they wish to use this compliance option.

<sup>3</sup>Nonatomized mechanical application must be used.

- ii) You may also use a weighted average organic HAP content for each application method described in paragraph (d)(1) of this section. Calculate the weighted average organic HAP content monthly. Use Equation 2 in paragraph (b)(1) of this section except substitute organic HAP content for organic HAP emissions factor. You are in compliance if the weighted average organic HAP content based on the last 12 months of resin use is less than or equal to the applicable organic HAP contents in Table 7 to this subpart. [§63.5810(d)(2)]
- iii) You may simultaneously use the averaging provisions in paragraph (b) or (c) of this section to demonstrate compliance for any operations and/or resins you do not include in your compliance demonstrations in paragraphs (d)(1) and (2) of this section. However, any resins



for which you claim compliance under the option in paragraphs (d)(1) and (2) of this section may not be included in any of the averaging calculations described in paragraph (b) or (c) of this section. [§63.5810](d)(3)]

- iv) You do not have to keep records of resin use for any of the individual resins where you demonstrate compliance under the option in paragraph (d)(1) of this section unless you elect to include that resin in the averaging calculations described in paragraph (d)(2) of this section. [§63.5810(d)(4)]

**General Compliance:**

1. You must be in compliance at all times with the work practice standards in Table 4 to this subpart, as well as the organic HAP emissions limits in Tables 3, or 5, or the organic HAP content limits in Table 7 to this subpart, as applicable, that you are meeting without the use of add-on controls. [§63.5835(a)]
2. You must be in compliance with all organic HAP emissions limits in this subpart that you meet using add-on controls, except during periods of startup, shutdown, and malfunction. [§63.5835(b)]
3. You must always operate and maintain your affected source, including air pollution control and monitoring equipment, according to the provisions in §63.6(e)(1)(i). [§63.5835(c)]
4. You must develop a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3) for any organic HAP emissions limits you meet using an add-on control. [§63.5835(d)]

**Demonstrating Compliance:**

1. You must demonstrate continuous compliance with each standard in §63.5805 that applies to you according to the methods specified in paragraphs (a)(1) through (3) of this section. [§63.5900(a)]
  - a) Compliance with organic HAP emissions limits is demonstrated by maintaining an organic HAP emissions factor value less than or equal to the appropriate organic HAP emissions limit listed in Table 3 or 5 to this subpart, on a 12-month rolling average, and/or by including in each compliance report a statement that individual resins and gel coats, as applied, meet the appropriate organic HAP emissions limits, as discussed in §63.5895(d). [§63.5900(a)(2)]
  - b) Compliance with organic HAP content limits in Table 7 to this subpart is demonstrated by maintaining an average organic HAP content value less than or equal to the appropriate organic HAP contents listed in Table 7 to this subpart, on a 12-month rolling average, and/or by including in each compliance report a statement that resins and gel coats individually meet the appropriate organic HAP content limits in Table 7 to this subpart, as discussed in §63.5895(d). [§63.5900(a)(3)]
  - c) Compliance with the work practice standards in Table 4 to this subpart is demonstrated by performing the work practice required for your operation. [§63.5900(a)(4)]
2. You must report each deviation from each standard in §63.5805 that applies to you. The deviations must be reported according to the requirements in §63.5910. [§63.5900(b)]
3. Except as provided in paragraph (d) of this section, during periods of startup, shutdown or malfunction, you must meet the organic HAP emissions limits and work practice standards that apply to you. [§63.5900(c)]
4. Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of malfunction for those affected sources and standards specified in paragraph (d) of this section are not violations if you demonstrate to the Administrator's satisfaction that you were operating in accordance with §63.6(e)(1). The Administrator will determine whether deviations that occur during a period of startup, shutdown, and malfunction are violations, according to the provisions in §63.6(e). [§63.5900(e)]

**Notifications:**

1. You must submit all of the notifications in Table 13 to this subpart that apply to you by the dates specified in Table 13 to this subpart. The notifications are described more fully in 40 CFR Part 63, subpart A, referenced in Table 13 to this subpart. [§63.5905(a)]

**Table 13 to Subpart WWWW of Part 63—Applicability and Timing of Notifications**

As required in §63.5905(a), you must determine the applicable notifications and submit them by the dates shown in the following table:

If your facility . . .	You must submit . . .	By this date . . .
1. Is an existing source subject to this subpart	An Initial Notification containing the information specified in §63.9(b)(2)	No later than the dates specified in §63.9(b)(2).
2. Is a new source subject to this subpart	The notifications specified in §63.9(b)(4) and (5)	No later than the dates specified §63.9(b)(4) and (5).
3. Qualifies for a compliance extension as specified in §63.9(c)	A request for a compliance extension as specified in §63.9(c)	No later than the dates specified in §63.6(i).
4. Is complying with organic HAP emissions limit averaging provisions	A Notification of Compliance Status as specified in §63.9(h)	No later than 1 year plus 30 days after your facility's compliance date.
5. Is complying with organic HAP content limits, application equipment requirements, or organic HAP emissions limit other than organic HAP emissions limit averaging	A Notification of Compliance Status as specified in §63.9(h)	No later than 30 calendar days after your facility's compliance date.
6. Is complying by using an add-on control device	a. A notification of intent to conduct a performance test as specified in §63.9(e)	No later than the date specified in §63.9(e).
	b. A notification of the date for the CMS performance evaluation as specified in §63.9(g)	The date of submission of notification of intent to conduct a performance test.
	c. A Notification of Compliance Status as specified in §63.9(h)	No later than 60 calendar days after the completion of the add-on control device performance test and CMS performance evaluation.

2. If you change any information submitted in any notification, you must submit the changes in writing to the Administrator within 15 calendar days after the change. [§63.5905(b)]

**Recordkeeping:**

1. You must keep the records listed in paragraphs (a)(1) through (3) of this section. [§63.5915(a)]
  - a) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirements in §63.10(b)(2)(xiv). [§63.5915(a)(1)]
  - b) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction. [§63.5915(a)(2)]
  - c) Records of performance tests, design, and performance evaluations as required in §63.10(b)(2). [§63.5915(a)(3)]
2. You must keep all data, assumptions, and calculations used to determine organic HAP emissions factors or average organic HAP contents for operations listed in tables 3, 5, and 7 to this subpart. [§63.5915(c)]
3. You must keep a certified statement that you are in compliance with the work practice requirements in Table 4 to this subpart, as applicable. [§63.5915(d)]
4. You must maintain all applicable records in such a manner that they can be readily accessed and are suitable for inspection according to §63.10(b)(1). [§63.5920(a)]
5. As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [§63.5920(b)]
6. You must keep each record onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years. [§63.5920(c)]
7. You may keep records in hard copy or computer readable form including, but not limited to, paper, microfilm, computer floppy disk, magnetic tape, or microfiche. [§63.5920(d)]

**Reporting:**

1. You must submit each report in Table 14 to this subpart that applies to you. [§63.5910(a)]

**Table 14 to Subpart WWWW of Part 63**—Requirements for Reports As required in §63.5910(a), (b), (g), and (h), you must submit reports on the schedule shown in the following table:

You must submit a(n)	The report must contain . . .	You must submit the report . . .
1. Compliance report	a. A statement that there were no deviations during that reporting period if there were no deviations from any emission limitations (emission limit, operating limit, opacity limit, and visible emission limit) that apply to you and there were no deviations from the requirements for work practice standards in Table 4 to this subpart that apply to you. If there were no periods during which the CMS, including CEMS, and operating parameter monitoring systems, was out of control as specified in §63.8(c)(7), the report must also contain a statement that there were no periods during which the CMS was out of control during the reporting period	Semiannually according to the requirements in §63.5910(b).
	b. The information in §63.5910(d) if you have a deviation from any emission limitation (emission limit, operating limit, or work practice standard) during the reporting period. If there were periods during which the CMS, including CEMS, and operating parameter monitoring systems, was out of control, as specified in §63.8(c)(7), the report must contain the information in §63.5910(e)	Semiannually according to the requirements in §63.5910(b).
	c. The information in §63.10(d)(5)(i) if you had a startup, shutdown or malfunction during the reporting period, and you took actions consistent with your startup, shutdown, and malfunction plan	Semiannually according to the requirements in §63.5910(b).
2. An immediate startup, shutdown, and malfunction report if you had a startup, shutdown, or malfunction during the reporting period that is not consistent with your startup, shutdown, and malfunction plan	a. Actions taken for the event	By fax or telephone within 2 working days after starting actions inconsistent with the plan.
	b. The information in §63.10(d)(5)(ii)	By letter within 7 working days after the end of the event unless you have made alternative arrangements with the permitting authority. (§63.10(d)(5)(ii)).

2. Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date specified in Table 14 to this subpart and according to paragraphs (b)(1) through (5) of this section. [§63.5910(b)]
  - a) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.5800 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.5800. [§63.5910(b)(1)]
  - b) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in §63.5800. [§63.5910(b)(2)]
  - c) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. [§63.5910(b)(3)]
  - d) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. [§63.5910(b)(4)]
  - e) For each affected source that is subject to permitting requirements pursuant to 40 CFR Part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to §70.6 (a)(3)(iii)(A) or §71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (4) of this section. [§63.5910(b)(5)]
3. The compliance report must contain the information in paragraphs (c)(1) through (6) of this section: [§63.5910(c)]
  - a) Company name and address. [§63.5910(c)(1)]
  - b) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. [§63.5910(c)(2)]
  - c) Date of the report and beginning and ending dates of the reporting period. [§63.5910(c)(3)]
  - d) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i). [§63.5910(c)(4)]
  - e) If there are no deviations from any organic HAP emissions limitations (emissions limit and operating limit) that apply to you, and there are no deviations from the requirements for work practice standards in Table 4 to this subpart, a statement that there were no deviations from the organic HAP emissions limitations or work practice standards during the reporting period. [§63.5910(c)(5)]
4. For each deviation from an organic HAP emissions limitation (*i.e.*, emissions limit and operating limit) and for each deviation from the requirements for work practice standards that occurs at an affected source where you are not using a CMS to comply with the organic HAP emissions limitations or work practice standards in this subpart, the compliance report must contain the information in paragraphs (c)(1) through (4) of this section and in paragraphs (d)(1) and (2) of this section. This includes periods of startup, shutdown, and malfunction. [§63.5910(d)]
  - a) The total operating time of each affected source during the reporting period. [§63.5910(d)(1)]
  - b) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken. [§63.5910(d)(2)]
5. Each affected source that has obtained a title V operating permit pursuant to 40 CFR Part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by §70.6(a)(3)(iii)(A) or §71.6(a)(3)(iii)(A). If an affected source submits a compliance report pursuant

to Table 14 to this subpart along with, or as part of, the semiannual monitoring report required by §70.6(a)(3)(iii)(A) or §71.6(a)(3)(iii)(A), and the compliance report includes all required information concerning deviations from any organic HAP emissions limitation (including any operating limit) or work practice requirement in this subpart, submission of the compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permitting authority. [§63.5910(g)]

6. Submit compliance reports and startup, shutdown, and malfunction reports based on the requirements in table 14 to this subpart, and not based on the requirements in §63.999. [§63.5910(h)]
7. Where multiple compliance options are available, you must state in your next compliance report if you have changed compliance options since your last compliance report. [§63.5910(i)]
8. The permittee shall report any deviations from the emission factors, determining HAP content of resins and gel coats, standards, compliance options, general compliance, demonstrating compliance, notifications, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION PW003**

10 CSR 10-6.075 Maximum Achievable Control Technology Regulations  
40 CFR Part 63 Subpart PPPP National Emissions Standards for Hazardous Air Pollutants for Surface  
Coating of Plastic Parts and Products

**Emission Limitations:**

1. The permittee must limit organic HAP emissions to the atmosphere from each existing general use plastic parts and products coating operations to no more than 0.16 kg (0.16 lb) organic HAP emitted per kg (lb) coating solids used during each 12-month compliance period. [§63.4490(b)(1)]
2. The affected source is the collection of all of the items listed in §63.4482(b)(1) through (4) that are used for surface coating of plastic parts and products within each subcategory. [§63.4482(b)]
  - a) All coating operations as defined in §63.4581; [§63.4482(b)(1)]
    - i) Coating operation means equipment used to apply cleaning materials to a substrate to prepare it for coating application (surface preparation) or to remove dried coating; to apply coating to a substrate (coating application) and to dry or cure the coating after application; or to clean coating operation equipment (equipment cleaning). A single coating operation may include any combination of these types of equipment, but always includes at least the point at which a given quantity of coating or cleaning material is applied to a given part and all subsequent points in the affected source where organic HAP are emitted from the specific quantity of coating or cleaning material on the specific part. There may be multiple coating operations in an affected source. Coating application with handheld, non-refillable aerosol containers, touch-up markers, or marking pens is not a coating operation for the purposes of this subpart. [§63.4581]
    - ii) All storage containers and mixing vessels in which coatings, thinners and/or other additives, and cleaning materials are stored or mixed; [§63.4482(b)(2)]
    - iii) All manual and automated equipment and containers used for conveying coatings, thinners and/or other additives, and cleaning materials; and [§63.4482(b)(3)]
    - iv) All storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation. [§63.4482(b)(4)]
3. The permittee must include all coatings (as defined in §63.4581) thinners and/or other additives, and cleaning materials used in the affected source when determining whether the organic HAP emission

rate is equal to or less than 0.16 kg (0.16 lb) organic HAP emitted per kg (lb) coating solids used. [§63.4491]

4. Any coating operation(s) for which the permittee uses the compliant material option or the emission rate without add-on controls option, as specified in §63.4491(a) and (b), must be in compliance with the applicable emission limit in §63.4490 at all times. [§63.4500(a)(4)]

**Alternate Compliance Methods:**

1. Facility-Specific Emission Limit

- a) The permittee may comply with a facility-specific emission limit calculated from the relative amount of coating activity that is subject to each emission limit. If the permittee elects to comply using the facility-specific emission limit alternative, then compliance with the facility-specific emission limit and the emission limitations in subpart PPPP for all surface coating operations constitutes compliance with this and other applicable surface coating NESHAP. The procedures for calculating the facility-specific emission limit are specified in §63.4490. In calculating a facility specific emission limit, the permittee must include coating activities that meet the applicability criteria of other surface coating NESHAP and constitute more than one percent (1 %) of total coating activities at the facility. Coating activities that meet the applicability criteria of other surface coating NESHAP but comprise less than one percent (1 %) of total coating activities need not be included in the calculation of the facility-specific emission limit but must be included in the compliance calculations. [§63.4481(e)(3)]
- b) The permittee may calculate and comply with a facility-specific emission limit as described in §63.4490(c)(2)(i) through (iii) . [§63.4490(c)(2)]
  - i) The permittee is required to calculate the facility-specific emission limit for the facility when the permittee submits the notification of compliance status required in §63.4510(c), and on a monthly basis afterward using the coating data for the relevant 12-month compliance period. [§63.4490(c)(2)(i)]
  - ii) Use Equation 1 of §63.4490 to calculate the facility-specific emission limit for the surface coating operations for each 12-month compliance period [§63.4490(c)(2)(ii)]

$$\text{Facility - Specific Emission Limit} = \frac{\sum_{i=1}^n \text{Limit}_i \times \text{Solids}_i}{\sum_{i=1}^n \text{Solids}_i} \quad [\text{§63.4490, Equation 1}]$$

Where:

Facility - Specific Emission Limit = Facility - Specific Emission Limit for each 12-month compliance period, kg (lb) organic HAP per kg (lb) coating solids used.

Limit<sub>i</sub> = The source emission limit applicable to coating operation, i, included in the facility-specific emission limit, converted to kg (lb) organic HAP per kg (lb) coating solids used, if the emission limit is not already in those units. All emission limits included in the facility-specific emission limit must be in the same units.

Solids<sub>i</sub> = The kg (lb) of solids used in coating operation, i, in the 12-month compliance period that is subject to emission limit, i. The permittee may estimate the mass of coating solids used from parameters other than coating consumption and mass solids content (e.g., design specifications for the parts or products coated and the number of items produced). The use of parameters other than coating consumption and mass solids content must be approved by the Administrator.

n = The number of different coating operations included in the facility-specific emission limit.

- iii) If the permittee needs to convert an emission limit in another surface coating NESHAP from kg (lb) organic HAP per liter (gallon) coating solids used to kg (lb) organic HAP per kg (lb) coating solids used, the permittee must use the default solids density of 1.50 kg solids per liter coating solids (12.5 lb solids per gal solids). [§63.4490(c)(2)(iii)]

**Monitoring:**

1. The permittee must use at least one of the two compliance options listed in §63.4491(a) through (b). The permittee may apply any of the compliance options to an individual coating operation, or to multiple coating operations as a group, or to the entire affected source. The permittee may use different compliance options for different coating operations, or at different times on the same coating operation. The permittee may employ different compliance options when different coatings are applied to the same part, or when the same coating is applied to different parts. However, the permittee may not use different compliance options at the same time on the same coating operation. If the permittee switches between compliance options for any coating operation or group of coating operations, the permittee must document this switch as required by §63.4530(c), and the permittee must report it in the next semiannual compliance report required in §63.4520. [§63.4491]
2. *Compliant material option.* Demonstrate that the organic HAP content of each coating used in the coating operation(s) is less than or equal to 0.16 kg (0.16 lb) organic HAP emitted per kg (lb) coating solids used, and that each thinner and/or other additive, and cleaning material used contains no organic HAP. The permittee must meet all the requirements of §63.4540, §63.4541, and §63.4542 to demonstrate compliance with the applicable emission limit using this option. [§63.4491(a)]
  - a) The permittee must complete the initial compliance demonstration for the initial compliance period according to the requirements in §63.4541. The initial compliance demonstration includes the calculations according to §63.4541 and supporting documentation showing that during the initial compliance period, the permittee used no coating with an organic HAP content that exceeded the applicable emission limit, and that the permittee used no thinners and/or other additives, or cleaning materials that contained organic HAP as determined according to §63.4541(a). [§63.4540]
  - b) *Initial Compliance Demonstration.* To demonstrate initial compliance using the compliant material option, the plastic coating operation or group of coating operations must use no coating with an organic HAP content that exceeds the 0.16 kg (0.16 lb) organic HAP emitted per kg (lb) coating solids used and must use no thinner and/or other additive, or cleaning material that contains organic HAP as determined according to §63.4541. If the permittee is demonstrating compliance with a predominant activity or facility-specific emission limit as provided in §63.4490(c), the permittee must demonstrate that all coating operations included in the predominant activity determination or calculation of the facility-specific emission limit comply with that limit. The permittee must meet all the requirements of §63.4541. Use the procedures in §63.4551 on each coating, thinner and/or other additive, and cleaning material in the condition it is in when it is received from its manufacturer or supplier and prior to any alteration. The permittee does not need to redetermine the organic HAP content of coatings, thinners and/or other additives, and cleaning materials that are reclaimed on-site (or reclaimed off-site if the permittee has documentation showing that the permittee received back the exact same materials that were sent off-site) and reused in the coating operation for which the permittee uses the compliant material option, provided these materials in their condition as received were demonstrated to comply with the compliant material option. [§63.4541]



- i) Determine the mass fraction of organic HAP for each material used. The permittee must determine the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during the compliance period by using one of the options in §63.4541(a)(1) through (5). [§63.4541(a)]
- (1) *Method 311 (appendix A to 40 CFR Part 63)*. The permittee may use Method 311 for determining the mass fraction of organic HAP. Use the procedures specified in §63.4541(a)(1)(i) and (ii) of this section when performing a Method 311 test. [§63.4541(a)(1)]
    - (a) Count each organic HAP that is measured to be present at 0.1 percent by mass or more for Occupational Safety and Health Administration (OSHA)-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other compounds. For example, if toluene (not an OSHA carcinogen) is measured to be 0.5 percent of the material by mass, the permittee does not have to count it. Express the mass fraction of each organic HAP the permittee counts as a value truncated to four places after the decimal point (e.g., 0.3791). [§63.4541(a)(1)(i)]
    - (b) Calculate the total mass fraction of organic HAP in the test material by adding up the individual organic HAP mass fractions and truncating the result to three places after the decimal point (e.g., 0.763). [§63.4541(a)(1)(ii)]
  - (2) *Method 24 (appendix A to 40 CFR Part 60)*. For coatings, the permittee may use Method 24 to determine the mass fraction of nonaqueous volatile matter and use that value as a substitute for mass fraction of organic HAP. For reactive adhesives in which some of the HAP react to form solids and are not emitted to the atmosphere, the permittee may use the alternative method contained in appendix A to subpart PPPP, rather than Method 24. The permittee may use the volatile fraction that is emitted, as measured by the alternative method in appendix A to subpart PPPP, as a substitute for the mass fraction of organic HAP. [§63.4541(a)(2)]
  - (3) *Alternative method*. The permittee may use an alternative test method for determining the mass fraction of organic HAP once the Administrator has approved it. The permittee must follow the procedure in §63.7(f) to submit an alternative test method for approval. [§63.4541(a)(3)]
  - (4) *Information from the supplier or manufacturer of the material*. The permittee may rely on information other than that generated by the test methods specified in §63.4541(a)(1) through (3) §63.4551, such as manufacturer's formulation data, if it represents each organic HAP that is present at 0.1 percent by mass or more for OSHA-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at percent by mass or more for other compounds. For example, if toluene (not an OSHA carcinogen) is 0.5 percent of the material by mass, the permittee does not have to count it. For reactive adhesives in which some of the HAP react to form solids and are not emitted to the atmosphere, the permittee may rely on manufacturer's data that expressly states the organic HAP or volatile matter mass fraction emitted. If there is a disagreement between such information and results of a test conducted according to §63.4541(a)(1) through (3), then the test method results will take precedence unless, after consultation the permittee demonstrates to the satisfaction of the enforcement agency that the formulation data are correct. [§63.4541(a)(4)]
  - (5) *Solvent blends*. Solvent blends may be listed as single components for some materials in data provided by manufacturers or suppliers. Solvent blends may contain organic HAP which must be counted toward the total organic HAP mass fraction of the materials.

When test data and manufacturer's data for solvent blends are not available, the permittee may use the default values for the mass fraction of organic HAP in these solvent blends listed in Table 3 or 4 to this subpart. If the permittee uses the tables, the permittee must use the values in Table 3 for all solvent blends that match Table 3 entries according to the instructions for Table 3, and the permittee may use Table 4 only if the solvent blends in the materials the permittee uses do not match any of the solvent blends in Table 3 and the permittee knows only whether the blend is aliphatic or aromatic. However, if the results of a Method 311 (appendix A to 40 CFR Part 63) test indicate higher values than those listed on Table 3 or 4 to this subpart, the Method 311 results will take precedence unless, after consultation the permittee demonstrates to the satisfaction of the enforcement agency that the formulation data are correct. [§63.4541(a)(5)]

**Table 3 to Subpart PPPP of Part 63—Default Organic HAP Mass Fraction for Solvents and Solvent Blends**  
 You may use the mass fraction values in the following table for solvent blends for which you do not have test data or manufacturer's formulation data and which match either the solvent blend name or the chemical abstract series (CAS) number. If a solvent blend matches both the name and CAS number for an entry, that entry's organic HAP mass fraction must be used for that solvent blend. Otherwise, use the organic HAP mass fraction for the entry matching either the solvent blend name or CAS number, or use the organic HAP mass fraction from table 4 to this subpart if neither the name or CAS number match.

Solvent/solvent blend	CAS. No.	Average organic HAP mass fraction	Typical organic HAP, percent by mass
1. Toluene	108-88-3	1.0	Toluene.
2. Xylene(s)	1330-20-7	1.0	Xylenes, ethylbenzene.
3. Hexane	110-54-3	0.5	n-hexane.
4. n-Hexane	110-54-3	1.0	n-hexane.
5. Ethylbenzene	100-41-4	1.0	Ethylbenzene.
6. Aliphatic 140		0	None.
7. Aromatic 100		0.02	1% xylene, 1% cumene.
8. Aromatic 150		0.09	Naphthalene.
9. Aromatic naphtha	64742-95-6	0.02	1% xylene, 1% cumene.
10. Aromatic solvent	64742-94-5	0.1	Naphthalene.
11. Exempt mineral spirits	8032-32-4	0	None.
12. Ligroines (VM & P)	8032-32-4	0	None.
13. Lactol spirits	64742-89-6	0.15	Toluene.
14. Low aromatic white spirit	64742-82-1	0	None.
15. Mineral spirits	64742-88-7	0.01	Xylenes.
16. Hydrotreated naphtha	64742-48-9	0	None.
17. Hydrotreated light distillate	64742-47-8	0.001	Toluene.
18. Stoddard solvent	8052-41-3	0.01	Xylenes.
19. Super high-flash naphtha	64742-95-6	0.05	Xylenes.
20. Varsol <sup>®</sup> solvent	8052-49-3	0.01	0.5% xylenes, 0.5% ethylbenzene.
21. VM & P naphtha	64742-89-8	0.06	3% toluene, 3% xylene.
22. Petroleum distillate mixture	68477-31-6	0.08	4% naphthalene, 4% biphenyl.

**Table 4 to Subpart PPPP of Part 63**—Default Organic HAP Mass Fraction for Petroleum Solvent Groups<sup>a</sup>  
 You may use the mass fraction values in the following table for solvent blends for which you do not have test data or manufacturer’s formulation data.

Solvent type	Average organic HAP mass fraction	Typical organic HAP, percent by mass
Aliphatic <sup>b</sup>	0.03	1% Xylene, 1% Toluene, and 1% Ethylbenzene.
Aromatic <sup>c</sup>	0.06	4% Xylene, 1% Toluene, and 1% Ethylbenzene.

<sup>a</sup>Use this table only if the solvent blend does not match any of the solvent blends in Table 3 to this subpart by either solvent blend name or CAS number and you only know whether the blend is aliphatic or aromatic.

<sup>b</sup>Mineral Spirits 135, Mineral Spirits 150 EC, Naphtha, Mixed Hydrocarbon, Aliphatic Hydrocarbon, Aliphatic Naphtha, Naphthol Spirits, Petroleum Spirits, Petroleum Oil, Petroleum Naphtha, Solvent Naphtha, Solvent Blend.

<sup>c</sup>Medium-flash Naphtha, High-flash Naphtha, Aromatic Naphtha, Light Aromatic Naphtha, Light Aromatic Hydrocarbons, Aromatic Hydrocarbons, Light Aromatic Solvent.

- ii) *Determine the mass fraction of coating solids for each coating.* The permittee must determine the mass fraction of coating solids (kg (lb) of coating solids per kg (lb) of coating) for each coating used during the compliance period by a test, by information provided by the supplier or the manufacturer of the material, or by calculation, as specified in §63.4541(b)(1) through (3). [§63.4541(b)]
  - (1) *Method 24 (appendix A to 40 CFR Part 60).* Use Method 24 for determining the mass fraction of coating solids. For reactive adhesives in which some of the liquid fraction reacts to form solids, the permittee may use the alternative method contained in appendix A to this subpart, rather than Method 24, to determine the mass fraction of coating solids. [§63.4541(b)(1)]
  - (2) *Alternative method.* The permittee may use an alternative test method for determining the solids content of each coating once the Administrator has approved it. The permittee must follow the procedure in §63.7(f) to submit an alternative test method for approval. [§63.4541(b)(2)]
  - (3) *Information from the supplier or manufacturer of the material.* The permittee may obtain the mass fraction of coating solids for each coating from the supplier or manufacturer. If there is disagreement between such information and the test method results, then the test method results will take precedence unless, after consultation the permittee demonstrates to the satisfaction of the enforcement agency that the formulation data are correct. [§63.4541(b)(3)]
- iii) *Calculate the organic HAP content of each coating.* Calculate the organic HAP content, kg (lb) organic HAP emitted per kg (lb) coating solids used, of each coating used during the compliance period using Equation 1 of §63.4541: [§63.4541(c)]

$$H_c = \frac{W_c}{S_c} \text{ [§63.4541, Equation 1]}$$

Where:

H<sub>c</sub> = Organic HAP content of the coating, kg (lb) of organic HAP emitted per kg (lb) coating solids used.

W<sub>c</sub> = Mass fraction of organic HAP in the coating, kg organic HAP per kg coating, determined according to §63.4541(a).

S<sub>c</sub> = Mass fraction of coating solids, kg coating solids per kg coating, determined according to §63.4541(b).

- iv) *Compliance demonstration.* The calculated organic HAP content for each coating used during the initial compliance period must be less than or equal to 0.16 kg (0.16 lb) organic HAP emitted per kg (lb) coating solids used; and each thinner and/or other additive, and cleaning material used during the initial compliance period must contain no organic HAP, determined according to §63.4541(a). [§63.4541(d)]
  - c) *Continuous compliance demonstration.* To demonstrate continuous compliance for each compliance period, the permittee must use no coating for which the organic HAP content (determined using Equation 1 of §63.4541) exceeds 0.16 kg (0.16 lb) organic HAP emitted per kg (lb) coating solids used, and use no thinner and/or other additive, or cleaning material that contains organic HAP, determined according to §63.4541(a). A compliance period consists of 12 months. Each month, after the end of the initial compliance period described in §63.4540, is the end of a compliance period consisting of that month and the preceding 11 months. If the permittee is complying with a facility-specific emission limit under §63.4490(c), the permittee must also perform the calculation using Equation 1 in §63.4490(c)(2) on a monthly basis using the data from the previous 12 months of operation. [§63.4542(a)]
3. *Emission rate without add-on controls option.*
- a) The permittee must demonstrate that, based on the coatings, thinners and/or other additives, and cleaning materials used in the coating operation(s), the organic HAP emission rate for the coating operation(s) is less than or equal to 0.16 kg (0.16 lb) organic HAP emitted per kg (lb) coating solids used, calculated as a rolling 12-month emission rate and determined on a monthly basis. The permittee must meet all the requirements of §63.4550, §63.4551, and §63.4552 to demonstrate compliance with the emission limit using this option. [§63.4491(b)]
  - b) The permittee must complete the initial compliance demonstration for the initial compliance period according to the requirements of §63.4551. The permittee must determine the mass of organic HAP emissions and mass of coating solids used each month and then calculate an organic HAP emission rate at the end of the initial compliance period. The initial compliance demonstration includes the calculations according to §63.4551 and supporting documentation showing that during the initial compliance period the organic HAP emission rate was equal to or less than the applicable emission limit in §63.4490. [§63.4550]
  - c) *Initial compliance demonstration.* To demonstrate initial compliance using the emission rate without add-on controls option, the plastic coating operation or group of coating operations must meet the applicable emission limit of no more than 0.16 kg (0.16 lb) organic HAP emitted per kg (lb) coating solids used, but is not required to meet the operating limits or work practice standards in §63.4492 and §63.4493, respectively. If the permittee is demonstrating compliance with a predominant activity or facility-specific emission limit as provided in §63.4490(c), the permittee must demonstrate that all coating operations included in the predominant activity determination or calculation of the facility-specific emission limit comply with that limit. The permittee must meet all the requirements of §63.4551. When calculating the organic HAP emission rate according to this section, do not include any coatings, thinners and/or other additives, or cleaning materials used on coating operations for which the permittee uses the compliant material option. The permittee does not need to redetermine the mass of organic HAP in coatings, thinners and/or other additives, or cleaning materials that have been reclaimed on-site (or reclaimed off-site if the permittee has documentation showing that the permittee received back the exact same materials that were sent off-site) and reused in the coating operation for which the permittee uses the emission rate without add-on controls option. If the permittee uses coatings, thinners and/or other additives, or cleaning materials that have been reclaimed on-site, the amount of each used in a month may be reduced by the amount of each that is reclaimed.

That is, the amount used may be calculated as the amount consumed to account for materials that are reclaimed. [§63.4551]

- i) *Determine the mass fraction of organic HAP for each material.* Determine the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during each month according to the requirements in §63.4541(a). [§63.4551(a)]
- ii) *Determine the mass fraction of coating solids.* Determine the mass fraction of coating solids (kg (lb) of coating solids per kg (lb) of coating) for each coating used during each month according to the requirements in §63.4541(b). [§63.4551(b)]
- iii) *Determine the density of each material.* Determine the density of each liquid coating, thinner and/or other additive, and cleaning material used during each month from test results using ASTM Method D1475-98, “Standard Test Method for Density of Liquid Coatings, Inks, and Related Products” (incorporated by reference, see §63.14), information from the supplier or manufacturer of the material, or reference sources providing density or specific gravity data for pure materials. If there is disagreement between ASTM Method D1475-98 and other such information sources, the test results will take precedence unless, after consultation the permittee demonstrates to the satisfaction of the enforcement agency that the formulation data are correct. If the permittee purchases materials or monitors consumption by weight instead of volume, the permittee does not need to determine material density. Instead, the permittee may use the material weight in place of the combined terms for density and volume in Equations 1A, 1B, 1C, and 2 of §63.4551. [§63.4551(c)]
- iv) *Determine the volume of each material used.* Determine the volume (liters) of each coating, thinner and/or other additive, and cleaning material used during each month by measurement or usage records. If the permittee purchases materials or monitors consumption by weight instead of volume, the permittee does not need to determine the volume of each material used. Instead, the permittee may use the material weight in place of the combined terms for density and volume in Equations 1A, 1B, 1C, and 2 of §63.4551. [§63.4551(d)]
- v) *Calculate the mass of organic HAP emissions.* The mass of organic HAP emissions is the combined mass of organic HAP contained in all coatings, thinners and/or other additives, and cleaning materials used during each month minus the organic HAP in certain waste materials. Calculate the mass of organic HAP emissions using Equation 1 of §63.4551: [§63.4551(e)]

$$H_e = A + B + C - R_w \quad [\text{§63.4551, Equation 1}]$$

Where:

$H_e$  = Total mass of organic HAP emissions during the month, kg.

A = Total mass of organic HAP in the coatings used during the month, kg, as calculated in Equation 1A of §63.4551.

B = Total mass of organic HAP in the thinners and/or other additives used during the month, kg, as calculated in Equation 1B of §63.4551.

C = Total mass of organic HAP in the cleaning materials used during the month, kg, as calculated in Equation 1C of §63.4551.

$R_w$  = Total mass of organic HAP in waste materials sent or designated for shipment to a hazardous waste TSDF for treatment or disposal during the month, kg, determined according to §63.4551(e)(4). (The permittee may assign a value of zero to R, if the permittee does not wish to use this allowance.)

- (1) Calculate the kg organic HAP in the coatings used during the month using Equation 1A of §63.4551: [§63.4551(e)(1)]

$$A = \sum_{i=1}^m \text{Vol}_{c,i} \times D_{c,i} \times W_{c,i} \quad [\text{\S}63.4551, \text{Equation 1A}]$$

Where:

A = Total mass of organic HAP in the coatings used during the month, kg.

Vol<sub>c,i</sub> = Total volume of coating, i, used during the month, liters.

D<sub>c,i</sub> = Density of coating, i, kg coating per liter coating.

W<sub>c,i</sub> = Mass fraction of organic HAP in coating, i, kg organic HAP per kg coating. For reactive adhesives as defined in §63.4581, use the mass fraction of organic HAP that is emitted as determined using the method in the appendix to subpart PPPP.

m = Number of different coatings used during the month.

- (2) Calculate the kg of organic HAP in the thinners and/or other additives used during the month using Equation 1B of §63.4551: [§63.4551(e)(2)]

$$B = \sum_{j=1}^n \text{Vol}_{t,j} \times D_{t,j} \times W_{t,j} \quad [\text{\S}63.4551, \text{Equation 1B}]$$

Where:

B = Total mass of organic HAP in the thinners and/or other additives used during the month, kg.

Vol<sub>t,j</sub> = Total volume of thinner and/or other additive, j, used during the month, liters.

D<sub>t,j</sub> = Density of thinner and/or other additive, j, kg per liter.

W<sub>t,j</sub> = Mass fraction of organic HAP in thinner and/or other additive, j, kg organic HAP per kg thinner and/or other additive. For reactive adhesives as defined in §63.4581, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to subpart PPPP.

n = Number of different thinners and/or other additives used during the month.

- (3) Calculate the kg organic HAP in the cleaning materials used during the month using Equation 1 C of §63.4551: [§63.4551(e)(3)]

$$C = \sum_{k=1}^p \text{Vol}_{s,k} \times D_{s,k} \times W_{s,k} \quad [\text{\S}63.4551, \text{Equation 1C}]$$

Where:

C = Total mass of organic HAP in the cleaning materials used during the month, kg.

Vol<sub>s,k</sub> = Total volume of cleaning material, k, used during the month, liters.

D<sub>s,k</sub> = Density of cleaning material, k, kg per liter.

W<sub>s,k</sub> = Mass fraction of organic HAP in cleaning material, k, kg organic HAP per kg material.

p = Number of different cleaning materials used during the month.

- (4) If the permittee chooses to account for the mass of organic HAP contained in waste materials sent or designated for shipment to a hazardous waste TSDF in Equation 1 of §63.455 1 , then the permittee must determine the mass according to §63.4551(e)(4)(i) through (iv). [§63.4551(e)(4)]

(a) The permittee may only include waste materials in the determination that are generated by coating operations in the affected source for which the permittee uses Equation 1 of §63.4551 and that will be treated or disposed of by a facility that is regulated as a TSDF under 40 CFR Part 262, 264, 265, or 266. The TSDF may be

- either off-site or onsite. The permittee may not include organic HAP contained in wastewater. [§63.4551(e)(4)(i)]
- (b) The permittee must determine either the amount of the waste materials sent to a TSDF during the month or the amount collected and stored during the month and designated for future transport to a TSDF. Do not include in the determination any waste materials sent to a TSDF during a month if the permittee has already included them in the amount collected and stored during that month or a previous month. [§63.4551(e)(4)(ii)]
- (c) Determine the total mass of organic HAP contained in the waste materials specified in §63.4551(e)(4)(ii). [§63.4551(e)(4)(iii)]
- (d) The permittee must document the methodology the permittee uses to determine the amount of waste materials and the total mass of organic HAP they contain, as required in §63.4530(h). If waste manifests include this information, they may be used as part of the documentation of the amount of waste materials and mass of organic HAP contained in them. [§63.4551(e)(4)(iv)]
- vi) *Calculate the total mass of coating solids used.* Determine the total mass of coating solids used, kg, which is the combined mass of coating solids for all the coatings used during each month, using Equation 2 of §63.4551: [§63.4551(f)]

$$M_{st} = \sum_{i=1}^m \text{Vol}_{c,i} \times D_{c,i} \times M_{s,i} \quad [\text{§63.4551, Equation 2}]$$

Where:

$M_{st}$  = Total mass of coating solids used during the month, kg.

$\text{Vol}_{c,i}$  = Total volume of coating, i, used during the month, liters.

$D_{c,i}$  = Density of coating, i, kgs per liter coating, determined according to §63.4551(c).

$M_{c,i}$  = Mass fraction of coating solids for coating, i, kgs solids per kg coating, determined according to §63.4541(b).

m = Number of coatings used during the month.

- vii) *Calculate the organic HAP emission rate.* Calculate the organic HAP emission rate for the compliance period, kg (lb) organic HAP emitted per kg (lb) coating solids used, using Equation 3 of §63.4551: [§63.4551(g)]

$$H_{yr} = \frac{\sum_{y=1}^n H_e}{\sum_{y=1}^n M_{st}} \quad [\text{§63.4551, Equation 3}]$$

Where:

$H_{yr}$  = Average organic HAP emission rate for the compliance period, kg organic HAP emitted per kg coating solids used.

$H_e$  = Total mass of organic HAP emissions from all materials used during month, y, kg, as calculated by Equation 1 of §63.4551.

$M_{st}$  = Total mass of coating solids used during month, y, kg, as calculated by Equation 2 of §63.4551.

y = Identifier for months.



n = Number of full or partial months in the compliance period (for the initial compliance period, n equals 12 if the compliance date falls on the first day of a month; otherwise n equals 13; for all following compliance periods, n equals 12).

- viii) *Compliance demonstration.* The organic HAP emission rate for the initial compliance period calculated using Equation 3 in §63.4551 must be less than or equal to 0.16 kg (0.16 lb) organic HAP emitted per kg (lb) coating solids used or the predominant activity or facility-specific emission limit allowed in §63.4490(c). The permittee must keep all records as required by §63.4530 and §63.4531. As part of the notification of compliance status required by §63.4510, the permittee must identify the coating operation(s) for which the permittee used the emission rate without add-on controls option and submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the initial compliance period because the organic HAP emission rate was less than or equal to 0.16 kg (0.16 lb) organic HAP emitted per kg (lb) coating solids used, determined according to the procedures in §63.455 1. [§63.4551(h)]
- d) *Continuous compliance demonstration.* To demonstrate continuous compliance, the organic HAP emission rate for each compliance period, determined according to §63.4551(a) through (g), must be less than or equal to 0.16 kg (0.16 lb) organic HAP emitted per kg (lb) coating solids used. A compliance period consists of 12 months. Each month after the end of the initial compliance period described in §63.4550 is the end of a compliance period consisting of that month and the preceding 11 months. The permittee must perform the calculations in §63.4551(a) through (g) on a monthly basis using data from the previous 12 months of operation. If the permittee is complying with a facility-specific emission limit under §63.4490(c), the permittee must also perform the calculation using Equation 1 in §63.4490(c)(2) on a monthly basis using the data from the previous 12 months of operation. [§63.4552(a)]
4. For any coating operation(s) on which the permittee uses the compliant material option or the emission rate without add-on controls option, the permittee is not required to meet any operating limits. [§63.4492(a)]
5. For any coating operation(s) on which the permittee uses the compliant material option or the emission rate without add-on controls option, the permittee is not required to meet any work practice standards. [§63.4493(a)]
6. The permittee must always operate and maintain the affected source, including all air pollution control and monitoring equipment the permittee uses for purposes of complying with this subpart, according to the provisions in §63.6(e)(l)(i). [§63.4500(b)]

**Record Keeping:**

1. The permittee must collect and keep records of the data and information specified in §63.4530(a) through (h). Failure to collect and keep these records is a deviation from the applicable standard. [§63.4530]
- a) A copy of each notification and report that the permittee submitted to comply with this subpart, and the documentation supporting each notification and report. If the permittee is using the predominant activity alternative under §63.4490(c), the permittee must keep records of the data and calculations used to determine the predominant activity. If the permittee is using the facility-specific emission limit alternative under §63.4490(c), the permittee must keep records of the data used to calculate the facility-specific emission limit for the initial compliance demonstration. The permittee must also keep records of any data used in each annual predominant activity determination and in the calculation of the facility-specific emission limit for each 12-month compliance period included in the semi-annual compliance reports. [§63.4530(a)]

- b) A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP and density for each coating, thinner and/or other additive, and cleaning material, and the mass fraction of coating solids for each coating. If the permittee conducted testing to determine mass fraction of organic HAP, density, or mass fraction of coating solids, the permittee must keep a copy of the complete test report. If the permittee uses information provided to the permittee by the manufacturer or supplier of the material that was based on testing, the permittee must keep the summary sheet of results provided to the permittee by the manufacturer or supplier. The permittee is not required to obtain the test report or other supporting documentation from the manufacturer or supplier. [§63.4530(b)]
- c) For each compliance period, the records specified in §63.4530(c)(1) through (3). [§63.4530(c)]
  - i) A record of the coating operations on which the permittee used each compliance option and the time periods (beginning and ending dates and times) for each option the permittee used. [§63.4530(c)(1)]
  - ii) For the compliant material option, a record of the calculation of the organic HAP content for each coating, using Equation 1 of §63.4541. [§63.4530(c)(2)]
  - iii) For the emission rate without add-on controls option, a record of the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month using Equations 1, 1A through 1C, and 2 of §63.4551 and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to §63.4551(e)(4); the calculation of the total mass of coating solids used each month using Equation 2 of §63.4551; and the calculation of each 12-month organic HAP emission rate using Equation 3 of §63.4551. [§63.4530(c)(3)]
- d) The permittee must collect and keep a record of the name and mass of each coating, thinner and/or other additive, and cleaning material used during each compliance period. If the permittee is using the compliant material option for all coatings at the source, the permittee may maintain purchase records for each material used rather than a record of the mass used. [§63.4530(d)]
- e) The permittee must collect and keep a record of the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during each compliance period. [§63.4530(e)]
- f) The permittee must collect and keep a record of the mass fraction of coating solids for each coating used during each compliance period. [§63.4530(f)]
- g) If the permittee uses an allowance in Equation 1 of §63.4551 for organic HAP contained in waste materials sent to or designated for shipment to a treatment, storage, and disposal facility (TSDF) according to §63.4551(e)(4), the permittee must keep records of the information specified in §63.4530(h)(1) through (3) of this section. [§63.4530(g)]
  - i) The name and address of each TSDF to which the permittee sent waste materials for which the permittee uses an allowance in Equation 1 of §63.4551, a statement of which subparts under 40 CFR Parts 262, 264, 265, and 266 apply to the facility; and the date of each shipment. [§63.4530(g)(1)]
  - ii) Identification of the coating operations producing waste materials included in each shipment and the month or months in which the permittee used the allowance for these materials in Equation 1 of §63.4551. [§63.4530(g)(2)]
  - iii) The methodology used in accordance with §63.4551(e)(4) to determine the total amount of waste materials sent to or the amount collected, stored, and designated for transport to a TSDF each month; and the methodology to determine the mass of organic HAP contained in these waste materials. This must include the sources for all data used in the determination,

methods used to generate the data, frequency of testing or monitoring, and supporting calculations and documentation, including the waste manifest for each shipment.

[§63.4530(g)(3)]

- h) The permittee must keep records of the date, time, and duration of each deviation. [§63.4530(h)]
- 2. The records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1). Where appropriate, the records may be maintained as electronic spreadsheets or as a database. [§63.4531(a)]
- 3. As specified in §63.10(b)(1), the permittee must keep each record for five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [§63.4531(b)]
- 4. The permittee must keep each record on-site for at least two (2) years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to §63.10(b)(1). The permittee may keep the records offsite for the remaining three (3) years. [§63.4531(c)]

**Reporting:**

- 1. *Initial Notification.* The permittee must submit the initial notification required by §63.9(b) no later than one (1) year after date of publication of this final rule in the federal register. [§63.4510(b)]
- 2. *Notification of compliance status.* The permittee must submit the notification of compliance status required by §63.9(h) no later than 30 calendar days following the end of the initial compliance period described in §63.4540 or §63.4550 that applies to the affected source. The notification of compliance status must contain the information specified in §63.4510(c)(1) through (8), (10) through (11), and in §63.9(h). [§63.4510(c)]
  - a) Company name and address. [§63.4510(c)(1)]
  - b) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. [§63.4510(c)(2)]
  - c) Date of the report and beginning and ending dates of the reporting period. The reporting period is the initial compliance period described in §63.4540 or §63.4550 that applies to the affected source. [§63.4510(c)(3)]
  - d) Identification of the compliance option or options specified in §63.4491 that the permittee used on each coating operation in the affected source during the initial compliance period. [§63.4510(c)(4)]
  - e) Statement of whether or not the affected source achieved the emission limitations for the initial compliance period. [§63.4510(c)(5)]
  - f) If the permittee had a deviation, include the information in §63.4510(c)(6)(i) and (ii). [§63.4510(c)(6)]
    - i) A description and statement of the cause of the deviation. [§63.4510(c)(6)(i)]
    - ii) If the permittee failed to meet the applicable emission limit in §63.4490, include all the calculations the permittee used to determine the kg (lb) organic HAP emitted per kg (lb) coating solids used. The permittee does not need to submit information provided by the materials' suppliers or manufacturers, or test reports. [§63.4510(c)(6)(ii)]
  - g) For each of the data items listed in §63.4510(c)(7)(i) through (iv) that is required by the compliance option(s) the permittee used to demonstrate compliance with the emission limit, include an example of how the permittee determined the value, including calculations and supporting data. Supporting data may include a copy of the information provided by the supplier or manufacturer of the example coating or material, or a summary of the results of testing

- conducted according to §63.4541(a), (b), or (c). The permittee does not need to submit copies of any test reports. [§63.4510(c)(7)]
- i) Mass fraction of organic HAP for one coating, for one thinner and/or other additive, and for one cleaning material. [§63.4510(c)(7)(i)]
  - ii) Mass fraction of coating solids for one coating. [§63.4510(c)(7)(ii)]
  - iii) Density for one coating, one thinner and/or other additive, and one cleaning material, except that if the permittee uses the compliant material option, only the example coating density is required. [§63.4510(c)(7)(iii)]
  - iv) The amount of waste materials and the mass of organic HAP contained in the waste materials for which the permittee is claiming an allowance in Equation 1 of §63.4551. [§63.4510(c)(7)(iv)]
- h) The calculation of kg (lb) organic HAP emitted per kg (lb) coating solids used for the compliance option(s) the permittee used, as specified in §63.4510(c)(8)(i) through (iii). [§63.4510(c)(8)]
- i) For the compliant material option, provide an example calculation of the organic HAP content for one coating, using Equation 1 of §63.4541. [§63.4510(c)(8)(i)]
  - ii) For the emission rate without add-on controls option, provide the calculation of the total mass of organic HAP emissions for each month; the calculation of the total mass of coating solids used each month; and the calculation of the 12-month organic HAP emission rate using Equations 1 and 1A through 1 C, 2, and 3, respectively, of §63.4551. [§63.4510(c)(8)(ii)]
- i) If the permittee is complying with a single emission limit representing the predominant activity under §63.4490(c)(1), include the calculations and supporting information used to demonstrate that this emission limit represents the predominant activity as specified in §63.4490(c)(1). [§63.4510(c)(10)]
- j) If the permittee is complying with a facility-specific emission limit under §63.4490(c)(2), include the calculation of the facility-specific emission limit and any supporting information as specified in §63.4490(c)(2). [§63.4510(c)(11)]
3. *Semiannual compliance reports.* The permittee must submit semiannual compliance reports for each affected source according to the requirements of §63.4520(a)(1) through (6). The semiannual compliance reporting requirements may be satisfied by reports required under other parts of the Clean Air Act (CAA), as specified in §63.4520(a)(2). [§63.4520(a)]
- a) *Dates.* Unless the Administrator has approved or agreed to a different schedule for submission of reports under §63.10(a), the permittee must prepare and submit each semiannual compliance report according to the dates specified in §63.4520(a)(1)(i) through (iv). Note that the information reported for each of the months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation. [§63.4520(a)(1)]
- i) The first semiannual compliance report must cover the first semiannual reporting period which begins the day after the end of the initial compliance period described in §63.4540 or §63.4550 that applies to the affected source and ends on June 30 or December 31, whichever date is the first date following the end of the initial compliance period. [§63.4520(a)(1)(i)]
  - ii) Each subsequent semiannual compliance report must cover the subsequent semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. [§63.4520(a)(1)(ii)]
  - iii) Each semiannual compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

- iv) As an affected source that is subject to permitting regulations pursuant to 40 CFR Part 70, the permittee may submit the first and subsequent compliance reports according to the dates the permitting authority has established pursuant to 40 CFR 70.6(a)(3)(iii)(A) instead of according to the date specified in §63.4520(a)(1)(iii). [§63.4520(a)(1)(iii)]
- b) *Inclusion with title V report.* The permittee must report all deviations as defined in this subpart in the semiannual monitoring report required by the Title V operating permit. If the permittee submits a semiannual compliance report pursuant to this section along with, or as part of, the semiannual monitoring report required by the Title V operating permit, and the semiannual compliance report includes all required information concerning deviations from any emission limitation in this subpart, its submission will be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a semiannual compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permitting authority. [§63.4520(a)(2)]
- c) *General requirements.* The semiannual compliance report must contain the information specified in §63.4520(a)(3)(i) through (vii), and the information specified §63.4520(a)(4) through (6) that is applicable to the affected source. [§63.4520(a)(3)]
  - i) Company name and address. [§63.4520(a)(3)(i)]
  - ii) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. [§63.4520(a)(3)(ii)]
  - iii) Date of report and beginning and ending dates of the reporting period. The reporting period is the 6-month period ending on June 30 or December 31. Note that the information reported for each of the six (6) months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation. [§63.4520(a)(3)(iii)]
  - iv) Identification of the compliance option or options specified in §63.4491 that the permittee used on each coating operation during the reporting period. If the permittee switched between compliance options during the reporting period, the permittee must report the beginning and ending dates for each option the permittee used. [§63.4520(a)(3)(iv)]
  - v) If the permittee used the emission rate without add-on controls compliance option (§63.4491(b)), the calculation results for each rolling 12-month organic HAP emission rate during the 6-month reporting period. [§63.4520(a)(3)(v)]
  - vi) If the permittee used the predominant activity alternative (§63.4490(c)(1)), include the annual determination of predominant activity if it was not included in the previous semi-annual compliance report. [§63.4520(a)(3)(vi)]
  - vii) If the permittee used the facility-specific emission limit alternative (§63.4490(c)(2)), include the calculation of the facility-specific emission limit for each 12-month compliance period during the 6-month reporting period. [§63.4520(a)(3)(vii)]
- d) *No deviations.* If there were no deviations from the emission limitations, the semiannual compliance report must include a statement that there were no deviations from the emission limitations during the reporting period. [§63.4520(a)(4)]
- e) *Deviations: Compliant material option.* If the permittee used the compliant material option and there was a deviation from the applicable organic HAP content requirements, the semiannual compliance report must contain the information in §63.4520(a)(5)(i) through (iv). [§63.4520(a)(5)]
  - i) Identification of each coating used that deviated from the applicable emission limit, and each thinner and/or other additive, and cleaning material used that contained organic HAP, and the dates and time periods each was used. [§63.4520(a)(5)(i)]

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- ii) The calculation of the organic HAP content (using Equation 1 of §63.4541) for each coating identified in §63.4520(a)(5)(i). The permittee does not need to submit background data supporting this calculation (e.g., information provided by coating suppliers or manufacturers, or test reports). [§63.4520(a)(5)(ii)]
  - iii) The determination of mass fraction of organic HAP for each thinner and/or other additive, and cleaning material identified in §63.4520(a)(5)(i). The permittee does not need to submit background data supporting this calculation (e.g., information provided by material suppliers or manufacturers, or test reports). [§63.4520(a)(5)(iii)]
  - iv) A statement of the cause of each deviation. [§63.4520(a)(5)(iv)]
- f) *Deviations: Emission rate without add-on controls option.* If the permittee used the emission rate without add-on controls option and there was a deviation from the applicable emission limit, the semiannual compliance report must contain the information in §63.4520(a)(6)(i) through (iii). [§63.4520(a)(6)]
- i) The beginning and ending dates of each compliance period during which the 12-month organic HAP emission rate exceeded the applicable emission limit in §63.4490. [§63.4520(a)(6)(i)]
  - ii) The calculations used to determine the 12-month organic HAP emission rate for the compliance period in which the deviation occurred. The permittee must submit the calculations for Equations 1, 1A through 1 C, 2, and 3 of §63.4551; and if applicable, the calculation used to determine mass of organic HAP in waste materials according to §63.4551(e)(4). The permittee does not need to submit background data supporting these calculations (e.g., information provided by materials suppliers or manufacturers, or test reports). [§63.4520(a)(6)(ii)]
  - iii) A statement of the cause of each deviation. [§63.4520(a)(6)(iii)]
4. The permittee shall report any deviations from the emission limitation, alternate compliance methods, monitoring, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

### III. Emission Unit Specific Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

<b>(EU0010 through EU0030) – Lamination Areas</b>		
<b>Emission Unit</b>	<b>Description</b>	<b>2008 EIQ Reference #</b>
EU0010	Lamination Area A (booths AF-1 through AF-4) - Gel Coat: Spray On and Resin Spray Layup (non-vapor-suppressed)	EP-01
EU0020	Lamination Area B (booths AF-10 and AF-11) - Surface Coating, Gel Coat: Spray On and Resin Spray Layup (non-vapor-suppressed)	EP-02
EU0030	Lamination Area C (booths AF-6 and AF-7) - Gel Coat: Spray On and Resin Spray Layup (non-vapor-suppressed)	EP-03

<b>PERMIT CONDITION EU0010-001</b> 10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants
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**Emission Limitation:**

1. No owner or other person shall cause or permit emissions to be discharged into the atmosphere from any *new* source any visible emissions with an opacity greater than 20%.
2. Exception: A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six (6) minutes in any 60 minutes air contaminants with an opacity up to 60%.

**Monitoring:**

1. The permittee shall conduct opacity readings on this emission unit using the procedures contained in U.S. EPA Test Method 22. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind and the presence of uncombined water. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
2. The following monitoring schedule must be maintained:
  - a) Weekly observations shall be conducted for a minimum of eight consecutive weeks after permit issuance. Should no violation of this regulation be observed during this period then-
  - b) Observations must be made once every two (2) weeks for a period of eight weeks. If a violation is noted, monitoring reverts to weekly. Should no violation of this regulation be observed during this period then-
  - c) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.

3. If the source reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

**Record Keeping:**

1. The permittee shall maintain records of all observation results (see Attachment B), noting:
  - a) Whether any air emissions (except for water vapor) were visible from the emission units,
  - b) All emission units from which visible emissions occurred, and
  - c) Whether the visible emissions were normal for the process.
2. The permittee shall maintain records of any equipment malfunctions. (see Attachment D)
3. The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment C)
4. Attachments B, C and D contain logs including these record keeping requirements. These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.
5. These records shall be made available immediately for inspection to Department of Natural Resources' personnel upon request.
6. All records shall be maintained for five years.

**Reporting:**

1. The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the permittee determined using the Method 9 test that the emission unit(s) exceeded the opacity limit.
2. Reports of any deviations from emission limitation, monitoring, record keeping, and reporting requirements of this permit condition shall be submitted semiannually, in the semi-annual monitoring report and annual compliance certification, as required by Section V of this permit.



## IV. Core Permit Requirements

The installation shall comply with each of the following regulations or codes. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued. The following is only an excerpt from the regulation or code, and is provided for summary purposes only.

### **10 CSR 10-6.045 Open Burning Requirements**

- (1) General Provisions. The open burning of tires, petroleum-based products, asbestos containing materials, and trade waste is prohibited, except as allowed below. Nothing in this rule may be construed as to allow open burning which causes or constitutes a public health hazard, nuisance, a hazard to vehicular or air traffic, nor which violates any other rule or statute.
- (2) Refer to the regulation for a complete list of allowances. The following is a listing of exceptions to the allowances:
  - (A) Burning of household or domestic refuse. Burning of household or domestic refuse is limited to open burning on a residential premises having not more than four dwelling units, provided that the refuse originates on the same premises, with the following exceptions:
    1. Kansas City metropolitan area. The open burning of household refuse must take place in an area zoned for agricultural purposes and outside that portion of the metropolitan area surrounded by the corporate limits of Kansas City and every contiguous municipality;
    2. Springfield-Greene County area. The open burning of household refuse must take place outside the corporate limits of Springfield and only within areas zoned A-1, Agricultural District;
    3. St. Joseph area. The open burning of household refuse must take place within an area zoned for agricultural purposes and outside that portion of the metropolitan area surrounded by the corporate limits of St. Joseph; and
    4. St. Louis metropolitan area. The open burning of household refuse is prohibited;
  - (B) Yard waste, with the following exceptions:
    1. Kansas City metropolitan area. The open burning of trees, tree leaves, brush or any other type of vegetation shall require an open burning permit;
    2. Springfield-Greene County area. The City of Springfield requires an open burning permit for the open burning of trees, brush or any other type of vegetation. The City of Springfield prohibits the open burning of tree leaves;
    3. St. Joseph area. Within the corporate limits of St. Joseph, the open burning of trees, tree leaves, brush or any other type of vegetation grown on a residential property is allowed during the following calendar periods and time-of-day restrictions:
      - A. A three (3)-week period within the period commencing the first day of March through April 30 and continuing for twenty-one (21) consecutive calendar days;
      - B. A three (3)-week period within the period commencing the first day of October through November 30 and continuing for twenty-one (21) consecutive calendar days;
      - C. The burning shall take place only between the daytime hours of 10:00 a.m. and 3:30 p.m.; and
      - D. In each instance, the twenty-one (21)-day burning period shall be determined by the Director of Public Health and Welfare of the City of St. Joseph for the region in which the City of St. Joseph is located provided, however, the burning period first shall receive the approval of the Department Director; and

4. St. Louis metropolitan area. The open burning of trees, tree leaves, brush or any other type of vegetation is limited to the period beginning September 16 and ending April 14 of each calendar year and limited to a total base area not to exceed sixteen (16) square feet. Any open burning shall be conducted only between the hours of 10:00 a.m. and 4:00 p.m. and is limited to areas outside of incorporated municipalities;
- (3) Certain types of materials may be open burned provided an open burning permit is obtained from the Director. The permit will specify the conditions and provisions of all open burning. The permit may be revoked if the owner or operator fails to comply with the conditions or any provisions of the permit.
- (4) Able Manufacturing and Assembly, LLC may be issued an annually renewable open burning permit for open burning provided that an air curtain destructor or incinerator is utilized and only tree trunks, tree limbs, vegetation or untreated wood waste are burned. Open burning shall occur at least two hundred (200) yards from the nearest occupied structure unless the owner or operator of the occupied structure provides a written waiver of this requirement. Any waiver shall accompany the open burning permit application. The permit may be revoked if Installation Name fails to comply with the provisions or any condition of the open burning permit.
  - (A) In a nonattainment area, as defined in 10 CSR 10-6.020, paragraph (2)(N)5., the Director shall not issue a permit under this section unless the owner or operator can demonstrate to the satisfaction of the Director that the emissions from the open burning of the specified material would be less than the emissions from any other waste management or disposal method.
- (5) Reporting and Record Keeping. New Source Performance Standard (NSPS) 40 CFR Part 60 Subpart CCCC establishes certain requirements for air curtain destructors or incinerators that burn wood trade waste. These requirements are established in 40 CFR 60.2245-60.2260. The provisions of 40 CFR Part 60 Subpart CCCC promulgated as of September 22, 2005 shall apply and are hereby incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401. To comply with NSPS 40 CFR 60.2245-60.2260, sources must conduct an annual Method 9 test. A copy of the annual Method 9 test results shall be submitted to the Director.
- (6) Test Methods. The visible emissions from air pollution sources shall be evaluated as specified by 40 CFR Part 60, Appendix A–Test Methods, Method 9–Visual Determination of the Opacity of Emissions from Stationary Sources. The provisions of 40 CFR Part 60, Appendix A, Method 9 promulgated as of December 23, 1971 is incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401.

<b>10 CSR 10-6.050 Start-up, Shutdown and Malfunction Conditions</b>
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- 1) In the event of a malfunction, which results in excess emissions that exceed one hour, the permittee shall submit to the Director within two business days, in writing, the following information:
  - a) Name and location of installation;
  - b) Name and telephone number of person responsible for the installation;
  - c) Name of the person who first discovered the malfunction and precise time and date that the malfunction was discovered.
  - d) Identity of the equipment causing the excess emissions;
  - e) Time and duration of the period of excess emissions;
  - f) Cause of the excess emissions;
  - g) Air pollutants involved;
  - h) Best estimate of the magnitude of the excess emissions expressed in the units of the applicable requirement and the operating data and calculations used in estimating the magnitude;

- i) Measures taken to mitigate the extent and duration of the excess emissions; and
  - j) Measures taken to remedy the situation that caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.
- 2) The permittee shall submit the paragraph 1 information list to the Director in writing at least ten days prior to any maintenance, start-up or shutdown, which is expected to cause an excessive release of emissions that exceed one hour. If notice of the event cannot be given ten days prior to the planned occurrence, it shall be given as soon as practicable prior to the release. If an unplanned excess release of emissions exceeding one hour occurs during maintenance, start-up or shutdown, the Director shall be notified verbally as soon as practical during normal working hours and no later than the close of business of the following working day. A written notice shall follow within ten working days.
  - 3) Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under Section 643.140, RSMo, the permittee may provide information showing that the excess emissions were the consequence of a malfunction, start-up or shutdown. The information, at a minimum, should be the paragraph 1 list and shall be submitted not later than 15 days after receipt of the notice of excess emissions. Based upon information submitted by the permittee or any other pertinent information available, the Director or the commission shall make a determination whether the excess emissions constitute a malfunction, start-up or shutdown and whether the nature, extent and duration of the excess emissions warrant enforcement action under Section 643.080 or 643.151, RSMo.
  - 4) Nothing in this rule shall be construed to limit the authority of the Director or commission to take appropriate action, under Sections 643.080, 643.090 and 643.151, RSMo to enforce the provisions of the Air Conservation Law and the corresponding rule.
  - 5) Compliance with this rule does not automatically absolve the permittee of liability for the excess emissions reported.

#### **10 CSR 10-6.060 Construction Permits Required**

The permittee shall not commence construction, modification, or major modification of any installation subject to this rule, begin operation after that construction, modification, or major modification, or begin operation of any installation which has been shut down longer than five years without first obtaining a permit from the permitting authority.

#### **10 CSR 10-6.065 Operating Permits**

The permittee shall file a complete application for renewal of this operating permit at least six months before the date of permit expiration. In no event shall this time be greater than eighteen months. [10 CSR 10-6.065(6)(B)1.A(V)] The permittee shall retain the most current operating permit issued to this installation on-site. [10 CSR 10-6.065(6)(C)1.C(II)] The permittee shall immediately make such permit available to any Missouri Department of Natural Resources' personnel upon request. [10 CSR 10-6.065(6)(C)3.B]

#### **10 CSR 10-6.080 Emission Standards for Hazardous Air Pollutants and 40 CFR Part 61 Subpart M National Emission Standard for Asbestos**

- 1) The permittee shall follow the procedures and requirements of 40 CFR Part 61, Subpart M for any activities occurring at this installation which would be subject to provisions for 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos.

- 2) The permittee shall conduct monitoring to demonstrate compliance with registration, certification, notification, and Abatement Procedures and Practices standards as specified in 40 CFR Part 61, Subpart M.

**10 CSR 10-6.110 Submission of Emission Data, Emission Fees and Process Information**

- 1) The permittee shall complete and submit an Emission Inventory Questionnaire (EIQ) annually.
- 2) The permittee may be required by the Director to file additional reports.
- 3) Public Availability of Emission Data and Process Information. Any information obtained pursuant to the rule(s) of the Missouri Air Conservation Commission that would not be entitled to confidential treatment under 10 CSR 10-6.210 shall be made available to any member of the public upon request.
- 4) The permittee shall pay an annual emission fee per ton of regulated air pollutant emitted according to the schedule in the rule. This fee is an emission fee assessed under authority of RSMo. 643.079 to satisfy the requirements of the Federal Clean Air Act, Title V.
- 5) The permittee shall be complete required reports on state supplied EIQ forms or in a form satisfactory to the Director and shall be submitted to the Director by June 1 after the end of each reporting period. Any revision to the EIQ forms will be presented to the regulated community for a forty-five (45)-day comment period.
- 6) The reporting period shall end on December 31 of each calendar year. Each report shall contain the required information for each emission unit for the twelve (12)-month period immediately preceding the end of the reporting period.
- 7) The permittee shall collect, record and maintain the information necessary to complete the required forms during each year of operation of the installation.

**10 CSR 10-6.130 Controlling Emissions During Episodes of High Air Pollution Potential**

This rule specifies the conditions that establish an air pollution alert (yellow/orange/red/purple), or emergency (maroon) and the associated procedures and emission reduction objectives for dealing with each. The permittee shall submit an appropriate emergency plan if required by the Director.

**10 CSR 10-6.150 Circumvention**

The permittee shall not cause or permit the installation or use of any device or any other means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.

**10 CSR 10-6.170**

**Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin**

**Emission Limitation:**

- 1) The permittee shall not cause or allow to occur any handling, transporting or storing of any material; construction, repair, cleaning or demolition of a building or its appurtenances; construction or use of a road, driveway or open area; or operation of a commercial or industrial installation without applying reasonable measures as may be required to prevent, or in a manner which allows or may allow, fugitive particulate matter emissions to go beyond the premises of origin in quantities that the particulate matter may be found on surfaces beyond the property line of origin. The nature or origin of the particulate matter shall be determined to a reasonable degree of certainty by a technique proven to be accurate and approved by the Director.
- 2) The permittee shall not cause nor allow to occur any fugitive particulate matter emissions to remain visible in the ambient air beyond the property line of origin.
- 3) Should it be determined that noncompliance has occurred, the Director may require reasonable control measures as may be necessary. These measures may include, but are not limited to, the following:
  - a) Revision of procedures involving construction, repair, cleaning and demolition of buildings and their appurtenances that produce particulate matter emissions;
  - b) Paving or frequent cleaning of roads, driveways and parking lots;
  - c) Application of dust-free surfaces;
  - d) Application of water; and
  - e) Planting and maintenance of vegetative ground cover.

**Monitoring:**

The permittee shall conduct inspections of its facilities sufficient to determine compliance with this regulation. If the permittee discovers a violation, the permittee shall undertake corrective action to eliminate the violation.

The permittee shall maintain the following monitoring schedule:

- 1) The permittee shall conduct weekly observations for a minimum of eight (8) consecutive weeks after permit issuance.
- 2) Should no violation of this regulation be observed during this period then-
  - a) The permittee may observe once every two (2) weeks for a period of eight (8) weeks.
  - b) If a violation is noted, monitoring reverts to weekly.
  - c) Should no violation of this regulation be observed during this period then-
    - i) The permittee may observe once per month.
    - ii) If a violation is noted, monitoring reverts to weekly.
- 3) If the permittee reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner to the initial monitoring frequency.

**Recordkeeping:**

The permittee shall document all readings on Attachment A, or its equivalent, noting the following:

- 1) Whether air emissions (except water vapor) remain visible in the ambient air beyond the property line of origin.
- 2) Whether the visible emissions were normal for the installation.
- 3) Whether equipment malfunctions contributed to an exceedance.
- 4) Any violations and any corrective actions undertaken to correct the violation.

**10 CSR 10-6.180 Measurement of Emissions of Air Contaminants**

- 1) The Director may require any person responsible for the source of emission of air contaminants to make or have made tests to determine the quantity or nature, or both, of emission of air contaminants from the source. The Director may specify testing methods to be used in accordance with good professional practice. The Director may observe the testing. All tests shall be performed by qualified personnel.
- 2) The Director may conduct tests of emissions of air contaminants from any source. Upon request of the Director, the person responsible for the source to be tested shall provide necessary ports in stacks or ducts and other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of the emission of air contaminants.
- 3) The Director shall be given a copy of the test results in writing and signed by the person responsible for the tests.

**10 CSR 10-3.090 Restriction of Emission of Odors**

**This requirement is not federally enforceable.**

No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than 15 minutes apart within the period of one hour.

**10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants**

**Emission Limitation:**

No owner or other person shall cause or permit to be discharged into the atmosphere from any source any visible emissions in excess of the limits specified by this rule. This permit will contain the opacity limits identified (10, 20 or 40 percent) for the specific emission units.

**Monitoring:**

- 1) The permittee shall conduct opacity readings on each emission unit using the procedures contained in U.S. EPA Test Method 22. The permittee is only required to take readings when the emission unit is operating and when the weather conditions allow. If the permittee observes no visible or other significant emissions using these procedures, then no further observations are required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
- 2) The permittee must maintain the following monitoring schedule:
  - a) The permittee shall conduct weekly observations for a minimum of eight (8) consecutive weeks after permit issuance.
  - b) Should the permittee observe no violations of this regulation during this period then-
    - i) The permittee may observe once every two (2) weeks for a period of eight (8) weeks.

- ii) If a violation is noted, monitoring reverts to weekly.
- iii) Should no violation of this regulation be observed during this period then-
  - (1) The permittee may observe once per month.
  - (2) If a violation is noted, monitoring reverts to weekly.
- 3) If the source reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

**Recordkeeping:**

The permittee shall maintain records of all observation results using Attachment B (or its equivalent), noting:

- 1) Whether any air emissions (except for water vapor) were visible from the emission units;
- 2) All emission units from which visible emissions occurred;
- 3) Whether the visible emissions were normal for the process;
- 4) The permittee shall maintain records of any equipment malfunctions, which may contribute to visible emissions; and,
- 5) The permittee shall maintain records of all U.S. EPA Method 9 opacity tests performed.

**10 CSR 10-6.250 Asbestos Abatement Projects – Certification, Accreditation, and Business Exemption Requirements**

The permittee shall conduct all asbestos abatement projects within the procedures established for certification and accreditation by 10 CSR 10-6.250. This rule requires individuals who work in asbestos abatement projects to be certified by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires training providers who offer training for asbestos abatement occupations to be accredited by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires persons who hold exemption status from certain requirements of this rule to allow the Department to monitor training provided to employees. Each individual who works in asbestos abatement projects must first obtain certification for the appropriate occupation from the Department. Each person who offers training for asbestos abatement occupations must first obtain accreditation from the Department. Certain business entities that meet the requirements for state-approved exemption status must allow the Department to monitor training classes provided to employees who perform asbestos abatement.

**Title VI – 40 CFR Part 82 Protection of Stratospheric Ozone**

- 1) The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
  - a) All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106.
  - b) The placement of the required warning statement must comply with the requirements pursuant to §82.108.
  - c) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.
  - d) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.

- 2) The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
  - a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
  - b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
  - c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.
  - d) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with record keeping requirements pursuant to §82.166. ("MVAC-like" appliance as defined at §82.152).
  - e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
  - f) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
- 3) If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR Part 82, Subpart A, Production and Consumption Controls.
- 4) If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.

The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G, Significant New Alternatives Policy Program. *Federal Only - 40 CFR Part 82*

#### **10 CSR 10-6.280 Compliance Monitoring Usage**

- 1) The permittee is not prohibited from using the following in addition to any specified compliance methods for the purpose of submission of compliance certificates:
  - a) Monitoring methods outlined in 40 CFR Part 64;
  - b) Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
  - c) Any other monitoring methods approved by the Director.
- 2) Any credible evidence may be used for the purpose of establishing whether a permittee has violated or is in violation of any such plan or other applicable requirement. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred by a permittee:
  - a) Monitoring methods outlined in 40 CFR Part 64;
  - b) A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
  - c) Compliance test methods specified in the rule cited as the authority for the emission limitations.



- 3) The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
  - a) Applicable monitoring or testing methods, cited in:
    - i) 10 CSR 10-6.030, "Sampling Methods for Air Pollution Sources";
    - ii) 10 CSR 10-6.040, "Reference Methods";
    - iii) 10 CSR 10-6.070, "New Source Performance Standards";
    - iv) 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants"; or
  - b) Other testing, monitoring, or information gathering methods, if approved by the Director, that produce information comparable to that produced by any method listed above.

## V. General Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued,

### **10 CSR 10-6.065(6)(C)1.B Permit Duration**

This permit is issued for a term of five years, commencing on the date of issuance. This permit will expire at the end of this period unless renewed.

### **10 CSR 10-6.065(6)(C)1.C General Record Keeping and Reporting Requirements**

- 1) Record Keeping
  - a) All required monitoring data and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report or application.
  - b) Copies of all current operating and construction permits issued to this installation shall be kept on-site for as long as the permits are in effect. Copies of these permits shall be made immediately available to any Missouri Department of Natural Resources' personnel upon request.
- 2) Reporting
  - a) All reports shall be submitted to the Air Pollution Control Program's Enforcement Section, P. O. Box 176, Jefferson City, MO 65102.
  - b) The permittee shall submit a report of all required monitoring by:
    - i) October 1st for monitoring which covers the January through June time period, and
    - ii) April 1st for monitoring which covers the July through December time period.
    - iii) Exception. Monitoring requirements which require reporting more frequently than semi annually shall report no later than 30 days after the end of the calendar quarter in which the measurements were taken.
  - c) Each report shall identify any deviations from emission limitations, monitoring, record keeping, reporting, or any other requirements of the permit, this includes deviations or Part 64 exceedances.
  - d) Submit supplemental reports as required or as needed. Supplemental reports are required no later than ten days after any exceedance of any applicable rule, regulation or other restriction. All reports of deviations shall identify the cause or probable cause of the deviations and any corrective actions or preventative measures taken.
    - i) Notice of any deviation resulting from an emergency (or upset) condition as defined in paragraph (6)(C)7.A of 10 CSR 10-6.065 (Emergency Provisions) shall be submitted to the

permitting authority either verbally or in writing within two working days after the date on which the emission limitation is exceeded due to the emergency, if the permittee wishes to assert an affirmative defense. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that indicate an emergency occurred and the permittee can identify the cause(s) of the emergency. The permitted installation must show that it was operated properly at the time and that during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or requirements in the permit. The notice must contain a description of the emergency, the steps taken to mitigate emissions, and the corrective actions taken.

- ii) Any deviation that poses an imminent and substantial danger to public health, safety or the environment shall be reported as soon as practicable.
- iii) Any other deviations identified in the permit as requiring more frequent reporting than the permittee's semiannual report shall be reported on the schedule specified in this permit, and no later than ten days after any exceedance of any applicable rule, regulation, or other restriction.
- e) Every report submitted shall be certified by the responsible official, except that, if a report of a deviation must be submitted within ten days after the deviation, the report may be submitted without a certification if the report is resubmitted with an appropriate certification within ten days after that, together with any corrected or supplemental information required concerning the deviation.
- f) The permittee may request confidential treatment of information submitted in any report of deviation.

#### **10 CSR 10-6.065(6)(C)1.D Risk Management Plan Under Section 112(r)**

The permittee shall comply with the requirements of 40 CFR Part 68, Accidental Release Prevention Requirements. If the permittee has more than a threshold quantity of a regulated substance in process, as determined by 40 CFR Section 68.115, the permittee shall submit a Risk Management Plan in accordance with 40 CFR Part 68 no later than the latest of the following dates:

- 1) June 21, 1999;
- 2) Three years after the date on which a regulated substance is first listed under 40 CFR Section 68.130; or
- 3) The date on which a regulated substance is first present above a threshold quantity in a process.

#### **10 CSR 10-6.065(6)(C)1.F Severability Clause**

In the event of a successful challenge to any part of this permit, all uncontested permit conditions shall continue to be in force. All terms and conditions of this permit remain in effect pending any administrative or judicial challenge to any portion of the permit. If any provision of this permit is invalidated, the permittee shall comply with all other provisions of the permit.

**10 CSR 10-6.065(6)(C)1.G General Requirements**

- 1) The permittee must comply with all of the terms and conditions of this permit. Any noncompliance with a permit condition constitutes a violation and is grounds for enforcement action, permit termination, permit revocation and re-issuance, permit modification or denial of a permit renewal application.
- 2) The permittee may not use as a defense in an enforcement action that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit
- 3) The permit may be modified, revoked, reopened, reissued or terminated for cause. Except as provided for minor permit modifications, the filing of an application or request for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- 4) This permit does not convey any property rights of any sort, nor grant any exclusive privilege.
- 5) The permittee shall furnish to the Air Pollution Control Program, upon receipt of a written request and within a reasonable time, any information that the Air Pollution Control Program reasonably may require to determine whether cause exists for modifying, reopening, reissuing or revoking the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the Air Pollution Control Program copies of records required to be kept by the permittee. The permittee may make a claim of confidentiality for any information or records submitted pursuant to 10 CSR 10-6.065(6)(C)1.

**10 CSR 10-6.065(6)(C)1.H Incentive Programs Not Requiring Permit Revisions**

No permit revision will be required for any installation changes made under any approved economic incentive, marketable permit, emissions trading, or other similar programs or processes provided for in this permit.

**10 CSR 10-6.065(6)(C)1.I Reasonably Anticipated Operating Scenarios**

None.

**10 CSR 10-6.065(6)(C)3 Compliance Requirements**

- 1) Any document (including reports) required to be submitted under this permit shall contain a certification signed by the responsible official.
- 2) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized officials of the Missouri Department of Natural Resources, or their authorized agents, to perform the following (subject to the installation's right to seek confidential treatment of information submitted to, or obtained by, the Air Pollution Control Program):
  - a) Enter upon the premises where a permitted installation is located or an emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
  - b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - c) Inspect, at reasonable times and using reasonable safety practices, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
  - d) As authorized by the Missouri Air Conservation Law, Chapter 643, RSMo or the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the terms of this permit, and all applicable requirements as outlined in this permit.

- 3) All progress reports required under an applicable schedule of compliance shall be submitted semiannually (or more frequently if specified in the applicable requirement). These progress reports shall contain the following:
  - a) Dates for achieving the activities, milestones or compliance required in the schedule of compliance, and dates when these activities, milestones or compliance were achieved, and
  - b) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measures adopted.
- 4) The permittee shall submit an annual certification that it is in compliance with all of the federally enforceable terms and conditions contained in this permit, including emissions limitations, standards, or work practices. These certifications shall be submitted annually by April 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, as well as the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and Part 64 exceedances and excursions must be included in the compliance certifications. The compliance certification shall include the following:
  - a) The identification of each term or condition of the permit that is the basis of the certification;
  - b) The current compliance status, as shown by monitoring data and other information reasonably available to the installation;
  - c) Whether compliance was continuous or intermittent;
  - d) The method(s) used for determining the compliance status of the installation, both currently and over the reporting period; and
  - e) Such other facts as the Air Pollution Control Program will require in order to determine the compliance status of this installation.

<b>10 CSR 10-6.065(6)(C)6 Permit Shield</b>
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- 1) Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements as of the date that this permit is issued, provided that:
  - a) The application requirements are included and specifically identified in this permit, or
  - b) The permitting authority, in acting on the permit revision or permit application, determines in writing that other requirements, as specifically identified in the permit, are not applicable to the installation, and this permit expressly includes that determination or a concise summary of it.
- 2) Be aware that there are exceptions to this permit protection. The permit shield does not affect the following:
  - a) The provisions of Section 303 of the Act or Section 643.090, RSMo concerning emergency orders,
  - b) Liability for any violation of an applicable requirement which occurred prior to, or was existing at, the time of permit issuance,
  - c) The applicable requirements of the acid rain program,
  - d) The authority of the Environmental Protection Agency and the Air Pollution Control Program of the Missouri Department of Natural Resources to obtain information, or
  - e) Any other permit or extra-permit provisions, terms or conditions expressly excluded from the permit shield provisions.

### **10 CSR 10-6.065(6)(C)7 Emergency Provisions**

- 1) An emergency or upset as defined in 10 CSR 10-6.065(6)(C)7.A shall constitute an affirmative defense to an enforcement action brought for noncompliance with technology-based emissions limitations. To establish an emergency- or upset-based defense, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, the following:
  - a) That an emergency or upset occurred and that the permittee can identify the source of the emergency or upset,
  - b) That the installation was being operated properly,
  - c) That the permittee took all reasonable steps to minimize emissions that exceeded technology-based emissions limitations or requirements in this permit, and
  - d) That the permittee submitted notice of the emergency to the Air Pollution Control Program within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.
- 2) Be aware that an emergency or upset shall not include noncompliance caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

### **10 CSR 10-6.065(6)(C)8 Operational Flexibility**

An installation that has been issued a Part 70 operating permit is not required to apply for or obtain a permit revision in order to make any of the changes to the permitted installation described below if the changes are not Title I modifications, the changes do not cause emissions to exceed emissions allowable under the permit, and the changes do not result in the emission of any air contaminant not previously emitted. The permittee shall notify the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, at least seven days in advance of these changes, except as allowed for emergency or upset conditions. Emissions allowable under the permit means a federally enforceable permit term or condition determined at issuance to be required by an applicable requirement that establishes an emissions limit (including a work practice standard) or a federally enforceable emissions cap that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject.

- 1) Section 502(b)(10) changes. Changes that, under Section 502(b)(10) of the Act, contravene an express permit term may be made without a permit revision, except for changes that would violate applicable requirements of the Act or contravene federally enforceable monitoring (including test methods), record keeping, reporting or compliance requirements of the permit.
  - a) Before making a change under this provision, The permittee shall provide advance written notice to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, Kansas 66101, describing the changes to be made, the date on which the change will occur, and any changes in emission and any permit terms and conditions that are affected. The permittee shall maintain a copy of the notice with the permit, and the Air Pollution Control Program shall place a copy with the permit in the public file. Written notice shall be provided to the EPA and the Air Pollution Control Program as above at least seven days before the change is to be made. If less than seven days notice is provided because of a need to respond more quickly to these unanticipated conditions, the permittee shall provide notice to the EPA and the Air Pollution Control Program as soon as possible after learning of the need to make the change.
  - b) The permit shield shall not apply to these changes.

**10 CSR 10-6.065(6)(C)9 Off-Permit Changes**

- 1) Except as noted below, the permittee may make any change in its permitted operations, activities or emissions that is not addressed in, constrained by or prohibited by this permit without obtaining a permit revision. Insignificant activities listed in the application, but not otherwise addressed in or prohibited by this permit, shall not be considered to be constrained by this permit for purposes of the off-permit provisions of this section. Off-permit changes shall be subject to the following requirements and restrictions:
  - a) The change must meet all applicable requirements of the Act and may not violate any existing permit term or condition; the permittee may not change a permitted installation without a permit revision if this change is subject to any requirements under Title IV of the Act or is a Title I modification;
  - b) The permittee must provide written notice of the change to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, no later than the next annual emissions report. This notice shall not be required for changes that are insignificant activities under 10 CSR 10-6.065(6)(B)3. This written notice shall describe each change, including the date, any change in emissions, pollutants emitted and any applicable requirement that would apply as a result of the change.
  - c) The permittee shall keep a record describing all changes made at the installation that result in emissions of a regulated air pollutant subject to an applicable requirement and the emissions resulting from these changes; and
  - d) The permit shield shall not apply to these changes.

**10 CSR 10-6.020(2)(R)12 Responsible Official**

The application utilized in the preparation of this permit was signed by Mr. James Schwarz, President and CEO. On February 3, 2010, the Air Pollution Control Program was informed that Mr. Peter Salmon, Vice President of Operations is now the responsible official. If this person terminates employment, or is reassigned different duties such that a different person becomes the responsible person to represent and bind the installation in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Director of the Air Pollution Control Program of the change. Said notification shall be in writing and shall be submitted within 30 days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the installation in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the installation until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

**10 CSR 10-6.065(6)(E)6 Reopening-Permit for Cause**

This permit may be reopened for cause if:

- 1) The Missouri Department of Natural Resources (MDNR) receives notice from the Environmental Protection Agency (EPA) that a petition for disapproval of a permit pursuant to 40 CFR § 70.8(d) has been granted, provided that the reopening may be stayed pending judicial review of that determination,
- 2) The Missouri Department of Natural Resources or EPA determines that the permit contains a material mistake or that inaccurate statements were made which resulted in establishing the emissions limitation standards or other terms of the permit,

- 3) Additional applicable requirements under the Act become applicable to the installation; however, reopening on this ground is not required if—:
  - a) The permit has a remaining term of less than three years;
  - b) The effective date of the requirement is later than the date on which the permit is due to expire;  
or
  - c) The additional applicable requirements are implemented in a general permit that is applicable to the installation and the installation receives authorization for coverage under that general permit,
- 4) The installation is an affected source under the acid rain program and additional requirements (including excess emissions requirements), become applicable to that source, provided that, upon approval by EPA, excess emissions offset plans shall be deemed to be incorporated into the permit;  
or
- 5) The Missouri Department of Natural Resources or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

<b>10 CSR 10-6.065(6)(E)1.C Statement of Basis</b>
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This permit is accompanied by a statement setting forth the legal and factual basis for the permit conditions (including references to applicable statutory or regulatory provisions). This Statement of Basis, while referenced by the permit, is not an actual part of the permit.

## VI. Attachments

Attachments follow.







**Attachment C**

Method 9 Opacity Emissions Observations								
Company					Observer			
Location					Observer Certification Date			
Date					Emission Unit			
Time					Control Device			
Hour	Minute	Seconds				Steam Plume (check if applicable)		Comments
		0	15	30	45	Attached	Detached	
	0							
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							
SUMMARY OF AVERAGE OPACITY								
Set Number	Time				Opacity			
	Start	End		Sum	Average			

Readings ranged from \_\_\_\_\_ to \_\_\_\_\_ % opacity.

Was the emission unit in compliance at the time of evaluation? \_\_\_\_\_  
 YES NO Signature of Observer



**Attachment E**  
 Daily Styrene Emissions Worksheet

**Copy this page as needed**

Column A	Column B	Column C	Column D	Column E	Column F	Column G	Column H
Date	Gel Coat Used (tons)	Gel Coat Emission Factor (ton/ton) (Note 1)	Gel Coat Total Daily Styrene Emissions (tons) (Note 2)	Resin Used (tons)	Resin Emission Factor (ton/ton) (Note 1)	Resin Total Daily Styrene Emissions (tons) (Note 3)	Total Daily Styrene Emissions (pounds) (Note 4)

Note 1: Use equations from Table 1 to Subpart WWW of Part 63 to calculate organic HAP emission factors  
 Note 2: Column D = (Column B) x (Column C)  
 Note 3: Column G = (Column E) x (Column F)  
 Note 4: Column H = (Column D + Column G) x 2000  
 (not to exceed 2000 pounds/day)

**Attachment F**  
 Cumulative Styrene Emissions Worksheet

**Entire Facility**

This worksheet covers the period from \_\_\_\_\_ to \_\_\_\_\_  
 (month/year) (month/year)

Column A	Column B	Column C
Date (month/year)	Monthly Styrene Emissions (tons) (Note 1)	Cumulative 12-month Running Total Styrene Emissions (tons) (Note 2)

Note 1: From Attachment E

Note 2: Running total of most recent consecutive 12-month period of styrene emissions  
 (not to exceed 201.6 tons in any consecutive 12-month period)

**Attachment G**  
 Monthly VOC Emissions Worksheet

**Copy this page as needed**

Column A	Column B	Column C	Column D	Column E
Date (month/year)	Type of Material Used (paint, etc.)	Amount of Material Used (gal)	VOC Content of Material (lbs/gal) (Note 1)	Monthly VOC Emissions (tons) (Note 2)
<b>Total Monthly VOC Emissions</b>				

Note 1: VOC content of paint or other VOC-containing material from Material Safety Data Sheets (MSDS)

Note 2: Column E = (Column C) x (Column D) x (0.0005 lbs/ton)

**Attachment H**  
 Cumulative VOC Emissions Worksheet

**Entire Facility**

This worksheet covers the period from \_\_\_\_\_ to \_\_\_\_\_  
 (month/year) (month/year)

Column A	Column B	Column C	Column D	Column E
Date (month/year)	Styrene Emissions (tons) (Note 1)	VOC Emissions (Other than Styrene) (tons) (Note 2)	Total VOC Emissions for this Month (tons) (Note 3)	Cumulative VOC Emission Total (tons) (Note 4)

Note 1: Total styrene emissions from Attachment F for this month

Note 2: Total VOC emissions from Attachment G for this month

Note 3: Column D = (Column B) + (Column C)

Note 4: Column E is the cumulative sum of the VOC emissions from the most recent consecutive 12-month period  
 (not to exceed 250 tons in any consecutive 12-month period)

## STATEMENT OF BASIS

### Permit Reference Documents

These documents were relied upon in the preparation of the operating permit. Because they are not incorporated by reference, they are not an official part of the operating permit.

- 1) Part 70 Operating Permit Application, received August 29, 2003; revised March 22, 2006;
- 2) 2006 Emissions Inventory Questionnaire, received May 30, 2007, and the 2009 Emissions Inventory Questionnaire, received May 28, 2009; and
- 3) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition.

### Applicable Requirements Included in the Operating Permit but Not in the Application or Previous Operating Permits

In the operating permit application, the installation indicated they were not subject to the following regulation(s). However, in the review of the application, the agency has determined that the installation is subject to the following regulation(s) for the reasons stated.

None.

### Other Air Regulations Determined Not to Apply to the Operating Permit

The Air Pollution Control Program (APCP) has determined the following requirements to not be applicable to this installation at this time for the reasons stated.

#### 10 CSR 10-6.100, *Alternate Emission Limits*

This rule is not applicable because the installation is in an ozone attainment area.

#### 10 CSR 10-3.060, *Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating*

The installation has reported insignificant indirect heating sources (<2 MMBtu/hour space heaters) which are subject to the requirements of this rule. However, the Air Pollution Control Program does not consider these sources to be capable of exceeding the particulate matter emission limitation of 0.60 pounds of particulate matter per million Btu's of heat input of this rule. Therefore, as the insignificant emission units are always expected to be in compliance with the PM limitation, this rule was not included in the applicable requirements section of this operating permit.

#### 10 CSR 10-6.260, *Restriction of Emission of Sulfur Compounds*

This installation's only fuel is pipeline natural gas used in the space heaters and the low sulfur content of the gas will result in compliance with the regulation. Therefore, this rule was not cited in the applicable requirements.

#### 10 CSR 10-6.400, *Restriction of Emission of Particulate Matter From Industrial Process*

This rule is not applicable because the potential emissions of each emission unit is less than 0.5 pounds of particulate matter per hour.



### **Construction Permit Revisions**

Permit number 0191-010 was issued on February 6, 1991. The following revisions were made to this construction permit.

Permit condition number 5 required styrene emission testing to determine styrene emission rates. Per the applicant's request in the renewal application, styrene emissions from this facility may be calculated using CFA UEF emission factors in lieu of testing. The Composite Fabricator's Association United Emission Factor (CFA UEF) table is now the accepted emission factor model for calculation air emissions of styrene by the Environmental Protection Agency (EPA).

Permit number 1297-004 was issued on December 2, 1997, and revised on January 27, 1998. The following revisions were made to this construction permit.

Permit conditions number 3 and 4 in the original permit limited the daily styrene emissions per stack. In 2002, the facility submitted dispersion modeling results to assess the combined air toxic impacts of styrene vapor emitted simultaneously from this facility, known as the 7<sup>th</sup> Street plant (facility ID number 097-0095) and from the other Able Manufacturing and Assembly plant in Joplin, known as the Schifferdecker plant (facility ID number 097-0089). This modeling was submitted to support a change from a daily styrene emission limit per stack to a daily facility-wide styrene emission limit per facility. The modeling results showed that styrene emissions from the two plants would not exceed the 24-hour and annual acceptable ambient levels for styrene based on the seven different scenarios that were modeled. This analysis assumed that all rain caps from all production stacks were removed and that negative pressure was maintained inside the production buildings. On February 26, 2003, construction permit number 032003-002 was issued for the Schifferdecker plant with a daily facility-wide styrene emission limit of 2000 pounds. A corresponding permit for a change to a daily facility-wide styrene limit was never issued for this facility. On August 29, 2003, the Air Pollution Control Program received a Part 70 Operating Permit renewal application requesting the daily facility-wide styrene limit for the 7<sup>th</sup> Street plant as a proposed condition. Based upon the modeling results submitted in 2002, this change from a daily styrene limit per stack to a daily facility-wide styrene limit of 2000 pounds was approved with the following additional conditions:

1. The permittee shall not add devices or equipment (such as rain caps) to stacks which will restrict or alter the exit velocity of the air leaving any production stack.
2. The permittee shall operate each booth fan at all times production is occurring in the associated booth to assure that negative pressure is maintained inside the production buildings.

The AP-42 emission factors used for the calculation of styrene emissions have been replaced with CFA UEF emission factors.

### **New Source Performance Standards (NSPS) Applicability**

None.

### **Maximum Available Control Technology (MACT) Applicability**

Subpart PPPP – National Emissions Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products is applicable to this facility.

### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

None.

### **Compliance Assurance Monitoring (CAM) Applicability**

40 CFR Part 64, *Compliance Assurance Monitoring (CAM)*

The CAM rule applies to each pollutant specific emission unit that:

- Is subject to an emission limitation or standard, and
- Uses a control device to achieve compliance, and
- Has pre-control emissions that exceed or are equivalent to the major source threshold.

40 CFR Part 64 is not applicable because none of the pollutant-specific emission units uses a control device to achieve compliance with a relevant standard.

### **Other Regulatory Determinations**

None.

### **Other Regulations Not Cited in the Operating Permit or the Above Statement of Basis**

Any regulation which is not specifically listed in either the Operating Permit or in the above Statement of Basis does not appear, based on this review, to be an applicable requirement for this installation for one or more of the following reasons:

1. The specific pollutant regulated by that rule is not emitted by the installation;
2. The installation is not in the source category regulated by that rule;
3. The installation is not in the county or specific area that is regulated under the authority of that rule;
4. The installation does not contain the type of emission unit which is regulated by that rule;
5. The rule is only for administrative purposes.

Should a later determination conclude that the installation is subject to one or more of the regulations cited in this Statement of Basis or other regulations which were not cited, the installation shall determine and demonstrate, to the Air Pollution Control Program's satisfaction, the installation's compliance with that regulation(s). If the installation is not in compliance with a regulation which was not previously cited, the installation shall submit to the Air Pollution Control Program a schedule for achieving compliance for that regulation(s).

Prepared by:

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