



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: OP2010-105
Expiration Date: OCT 05 2015
Installation ID: 097-0089
Project Number: 2009-06-020

Installation Name and Address

Able Manufacturing & Assembly, LLC
1000 Schifferdecker Avenue
Joplin, MO 64801-3531
Jasper County

Parent Company's Name and Address

Able Manufacturing & Assembly, LLC
1000 Schifferdecker Avenue
Joplin, MO 64801-3531

Installation Description:

Able Manufacturing & Assembly, LLC is a manufacturer of custom molded composites and fabricated metal products. Examples of products include truck hoods, welded steel cabs, and various custom-made composites parts. The major emission units are plastic and metal surface coating; open and closed molding of production resins; and gelcoat spray application operations. The installation is a major source of Hazardous Air Pollutants (HAPs) and Volatile Organic Compounds (VOCs).

OCT 06 2010

Effective Date

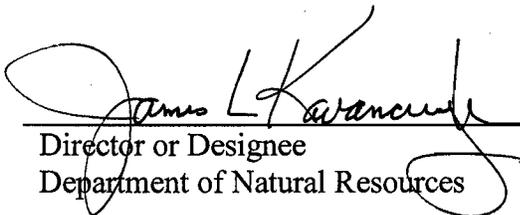

Director or Designee
Department of Natural Resources

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I. Installation Description and Equipment Listing

INSTALLATION DESCRIPTION

Able Manufacturing & Assembly, LLC is a manufacturer of custom molded composites and fabricated metal products. Examples of products include truck hoods, welded steel cabs, and various custom-made composites parts. The major emission units are plastic and metal surface coating; open and closed molding of production resins; and gelcoat spray application operations. The installation is a major source of Hazardous Air Pollutants (HAPs) and Volatile Organic Compounds (VOCs).

Reported Air Pollutant Emissions, tons per year	
Year	Volatile Organic Compounds (VOC)
2008	58.85
2007	56.35
2006	36.45
2005	34.43
2004	66.21

Note: This installation does emit HAPs, however they are reported as VOCs in the EIQ.

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.

<u>Emission Unit #</u>	<u>Description of Emission Unit</u>
EP#11A	Touchup Booth
EP#11B	Speciality Booth
EP#12A	Finish Paint Booth
EP#1A	Cabs Paint Booth
EP#2	Small Parts Paint Booth
EP#5	Prime Booth
EP#1B	Cabs and Small Parts Paint Curing Oven
EP#3	Prime Booth Curing Oven
EU0009	Ottawa Paint Curing Oven
EP#12B	Finish Paint Booth Curing Oven
EP#9A	Assembly Area Priming and Adhesives
EP#6	Open-Mold and Tooling Gelcoating Booths
EU0022	Composites Resin Tank (T1)
EU0023	Open-Mold Resin Tank (T2)
EU0024	Open-Mold Resin Tank (T3)
EU0025	Open-Mold Resin Tank (T4)
EP#7	Open-Mold and Tooling Resin Lamination
EU0031	Sander #1
EU0032	Sander #2
EU0033	Sander #3
EU0034	Sander #4
EU0035	Sander #5
EU0036	Sander #6

EU0037	Sander #7
EU0038	Sander #8
EU0039	Sander #9
EU0040	Sander #10

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

EP#9B	Metal Fabrication and Assembly
EP#14	RTM Room
MIG Welding	
Space Heaters (Natural Gas)	

DOCUMENTS INCORPORATED BY REFERENCE

These documents have been incorporated by reference into this permit.

Construction Permit No. 032003-002, Issued February 26, 2003

Construction Permit No. 032003-002A, Issued June 30, 2009

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. 032003-002, Issued February 26, 2003

Emission Limitation:

1. Special Condition 2.A: The permittee shall emit less than two thousand (2,000) pounds of styrene from the entire installation in any consecutive twenty-four (24) hour period.
2. Special Condition 2.B: The permittee shall emit less than two hundred (200) tons of styrene from the entire installation in any consecutive twelve (12) month period.
3. Special Condition 2.C: The permittee shall emit less than two hundred and fifty (250) tons of Volatile Organic Compounds (VOCs) from the entire installation in any consecutive twelve (12) month period.

Monitoring/Record Keeping:

Special Condition 3: Attachments C, D, and E or equivalent forms shall be used to demonstrate compliance with Special Conditions 2.A, 2.B, and 2.C of Construction Permit 032003-002. The permittee shall maintain all records required by construction permit 032003-002 for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request. These records shall include copies of Material Safety Data Sheets (MSDS) for all materials used at the installation.

Reporting:

1. Special Condition 4: The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten (10) days after the end of the month during which the records from Special Condition 3 of Construction Permit 032003-002 indicate that the source exceeds the limitation of Special Conditions 2.A, 2.B, or 2.C of Construction Permit 032003-002.
2. The permittee shall report any deviations from the emission limitation, 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.

PERMIT CONDITION PW002

10 CSR 10-6.060 Construction Permits Required
Construction Permit No. 032003-002, Issued February 26, 2003

Emission Limitation:

Special Condition 5: If a continuing situation of demonstrated nuisance odors exists in violation of 10 CSR 10-3.090, the Director may require the permittee to submit a corrective 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 shall be in violation of this condition.

Monitoring:

The permittee shall monitor the requested information in an approved corrective action plan.

Note: No monitoring is required if a corrective action plan is not required.

Record Keeping:

The permittee shall keep records the requested information in an approved corrective action plan.

Note: No record keeping is required if a corrective action plan is not required.

Reporting:

1. The permittee shall submit a corrective action plan to the Air Pollution Control Program if required by the Director.
2. The permittee shall report any deviations from the emission limitation, 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.

PERMIT CONDITION PW003

10 CSR 10-6.060 Construction Permits Required

Construction Permit No. 032003-002A, Issued June 30, 2009

Operational Limitations:

1. Special Condition 2.A: The permittee shall not add devices or equipment to stacks, which will restrict or alter the exit velocity of the air leaving any production stack.
2. Special Condition 2.B: The permittee shall operate the composite room roof fans in accordance with one of the following scenarios:
 - a) Scenario 1:
 - i) The permittee shall operate nine of the eleven roof exhaust fans on the composite room at all times production is occurring.
 - b) Scenario 2:
 - i) The permittee shall operate a number of exhaust fans on the composite room proportional to the percent of total production capacity of the areas, respectively.
 - ii) All exterior room doors must be closed except to allow the ingress and egress of personnel.
 - iii) Tightly fitted strip curtains will be installed on all exterior doorways.

Monitoring/Record Keeping:

1. The permittee shall maintain an operation log for the roof exhaust fans of the composite building using Attachment F or an equivalent form generated by the permittee.
2. All inspections of the roof exhaust fans on the composite building shall be recorded, including any corrective actions, using Attachment G or an equivalent form generated by the permittee.
3. All records shall be maintained for five years and shall be made available immediately upon request from any Missouri Department of Natural Resources' personnel.

Reporting:

The permittee shall report any deviations from the operational limitation, 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.

PERMIT CONDITION 001	
10 CSR 10-6.075 Maximum Achievable Control Technology Regulations 40 CFR Part 63 Subpart M MMM National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products	
Emission Unit	Description
EP#11A	Touchup Booth
EP#11B	Specialty Booth
EP#12A	Finish Paint Booth
EP#1A	Cabs Paint Booth
EP#2	Small Parts Paint Booth
EP#5	Prime Booth
EP#1B	Cabs and Small Parts Paint Curing Oven
EP#3	Prime Booth Curing Oven
EU0009	Ottawa Paint Curing Oven
EP#12B	Finish Paint Booth Curing Oven
EP#9A	Assembly Area Priming and Adhesives

Emission Limitation:

1. The permittee must limit organic HAP emissions to the atmosphere from each existing general use metal parts and products coating operation to no more than 0.31 kg (2.6 lb) organic HAP per liter (gal) coating solids used during each 12-month compliance period. [§63.3890(b)(1)]
2. The affected source is the collection of all of the items listed in §63.3882(b)(1) through (4) that are used for surface coating of miscellaneous metal parts and products within each subcategory. [§63.3882(b)]
 - a) All coating operations as defined in §63.3981; [§63.3882(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 subpart MMMM. [§63.3981]
 - b) All storage containers and mixing vessels in which coatings, thinners and/or other additives, and cleaning materials are stored or mixed; [§63.3882(b)(2)]

- c) All manual and automated equipment and containers used for conveying coatings, thinners and/or other additives, and cleaning materials; and [§63.3882(b)(3)]
- d) All storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation. [§63.3882(b)(4)]
3. The permittee must include all coatings (as defined in §63.3981), 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 the applicable emission limit. [§63.3891]
4. Any coating operation(s) for which the permittee uses the compliant material option or the emission rate without add-on controls option must be in compliance with the applicable emission limit in §63.3890 at all times.[§63.3900(a)(1)]

Alternate Compliance Methods:

1. Predominant Activity
 - a) The permittee may comply with the emission limitation representing the predominant surface coating activity at the facility, as determined according to §63.3881(e)(2)(i) through (ii). [§63.3881(e)(2)]
 - i) If the metal parts and products surface coating operation accounts for ninety percent (90%) or more of the surface coating activity (that is, the predominant activity), then compliance with the emission limitations of the predominant activity for all surface coating operations constitutes compliance with these and other applicable surface coating NESHAP. In determining predominant activity, 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 coating activities need not be included in the determination of predominant activity but must be included in the compliance calculation.[§63.3 881(e)(2)(i)]
 - ii) The permittee must use liters (gal) of solids used as a measure of relative surface coating activity over a representative period of operation. The permittee may estimate the relative volume of coating solids used from parameters other than coating consumption and volume solids content (e.g., design specifications for the parts or products coated and the number of items produced). The determination of predominant activity must accurately reflect current and projected coating operations and must be verifiable through appropriate documentation. The use of parameters other than coating consumption and volume solids content must be approved by the Administrator. The permittee may use data for any reasonable time period of at least one (1) year in determining the relative amount of coating activity, as long as they represent the way the source will continue to operate in the future and are approved by the Administrator. The permittee must determine predominant activity annually and include the determination in the annual compliance report required by §63.3920(a). [§63.3881(e)(2)(ii)]
2. 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 MMMM 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 §63.3890. 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.

Compliance with the facility-specific emission limit and all other applicable provisions of subpart MMMM for all surface coating operations constitutes compliance with this and all other applicable surface coating NESHAP. [§63.3881(e)(3)]

- b) The permittee may calculate and comply with a facility specific emission limit as described in §63.3890(c)(2)(i) through (iii). [§63.3890(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 §63.3910(c), and on a monthly basis afterward using the coating data for the relevant 12-month compliance period. [§63.3890(c)(2)(i)]
 - ii) Use Equation 1 of §63.3890 to calculate the facility-specific emission limit for the surface coating operations for each 12-month compliance period: [§63.3890(c)(2)(ii)]

$$\text{Facility - Specific Emission Limit} = \frac{\sum_{i=1}^n \text{Limit}_i \times \text{Solids}_i}{\sum_{i=1}^n \text{Solids}_i} \quad [\text{§63.3890, Equation 1}]$$

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_i = 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_i = The liters (gal) 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 volume of coating solids used from parameters other than coating consumption and volume 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 volume 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 kg (lb) coating solids used to kg (lb) organic HAP per liter (gal) coating solids used, the permittee must use the default solids density of 1.26 kg solids per liter coating solids (10.5 lb solids per gal solids). [§63.3890(c)(2)(iii)]

Monitoring:

- 1. The permittee must use at least one or more of the compliance options listed in §63.3891(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 §63.3930(c), and the permittee must report it in the next annual compliance report required in §63.3920. [§63.3891]

2. *Compliant material option.* The permittee must demonstrate that the organic HAP content of each coating used in the coating operation(s) is less than or equal to 0.31 kg (2.6 lb) organic HAP per liter (gal) coating solids, and that each thinner and/or other additive, and cleaning material used contains no organic HAP. The permittee must meet all the requirements of §63.3940, §63.3941, and §63.3942 to demonstrate compliance with the applicable emission limit using this option. [§63.3891(a)]
 - a) The permittee must complete the initial compliance demonstration for the initial compliance period according to the requirements in §63.3941. The initial compliance demonstration includes the calculations according to §63.3941 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 §63.3941(a). [§63.3940]
 - b) *Initial compliance demonstration.* To demonstrate initial compliance using the compliant material option, the metal coating operation must use no coating with an organic HAP content that exceeds 0.31 kg (2.6 lb) organic HAP per liter (gal) coating solids, and use no thinner and/or other additive, and cleaning material that contains organic HAP. If the permittee is demonstrating compliance with a predominant activity or facility-specific emission limit as provided in §63.3890(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 §63.3941. Use the procedures in §63.3941 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. [§63.3941]
 - 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 §63.3941(a)(1) through (5). [§63.3941(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 §63.3941(a)(1)(i) and (ii) when performing a Method 311 test. [§63.3941(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). [§63.3941(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). [§63.3941(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 of part 63, 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 of part 63, as a substitute for the mass fraction of organic HAP. [§63.3941(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. [§63.3941(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 §63.3941(a)(1) through (3), 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 1.0 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 §63.341(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. [§63.3941(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 (see Attachments H or I). 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. [§63.3941(a)(5)]
- ii) *Determine the volume fraction of coating solids for each coating*. The permittee must determine the volume fraction of coating solids (liters (gal) of coating solids per liter (gal) 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

§63.3941(b)(1) through (4). If test results obtained according to §63.3941(b)(1) do not agree with the information obtained under §63.3941(b)(3) or (4), 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. [§63.3941(b)]

- (1) *ASTM Method D2697-86 (Reapproved 1998) or ASTM Method 06093-97 (Reapproved 2003)*. The permittee may use ASTM Method D2697-86 (Reapproved 1998), “Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings” (incorporated by reference, see §63.14), or ASTM Method D6093-97 (Reapproved 2003), “Standard Test Method for Percent Volume Nonvolatile Matter in Clear or Pigmented Coatings Using a Helium Gas Pycnometer” (incorporated by reference, see §63.14), to determine the volume fraction of coating solids for each coating. Divide the nonvolatile volume percent obtained with the methods by 100 to calculate volume fraction of coating solids. [§63.3941(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. [§63.3941(b)(2)]
- (3) *Information from the supplier or manufacturer of the material*. The permittee may obtain the volume fraction of coating solids for each coating from the supplier or manufacturer. [§63.3941(b)(3)]
- (4) *Calculation of volume fraction of coating solids*. The permittee may determine the volume fraction of coating solids using Equation 1: [§63.3941(b)(4)]

$$V_s = 1 - \frac{m_{\text{volatiles}}}{D_{\text{avg}}} \quad [\text{§63.3941, Equation 1}]$$

Where:

V_s = Volume fraction of coating solids, liters (gal) coating solids per liter (gal) coating.
 $m_{\text{volatiles}}$ = Total volatile matter content of the coating, including HAP, volatile organic compounds (VOC), water, and exempt compounds, determined according to Method 24 in appendix A of 40 CFR Part 60, grams volatile matter per liter coating.

D_{avg} = Average density of volatile matter in the coating, grams volatile matter per liter volatile matter, determined 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 test results and other 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.

- iii) *Determine the density of each coating*. Determine the density of each coating used during the compliance period 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 specific gravity data for pure chemicals. If there is disagreement between ASTM Method D1475-98 test results and the supplier’s or manufacturer’s information, 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. [§63.3941(c)]

- iv) *Determine the organic HAP content of each coating.* Calculate the organic HAP content, kg (lb) of organic HAP emitted per liter (gal) coating solids used, of each coating used during the compliance period using Equation 2: [§63.3941(d)]

$$H_c = \frac{D_c \times W_c}{V_s} \quad [\text{§63.3941, Equation 2}]$$

Where:

H_c = Organic HAP content of the coating, kg organic HAP emitted per liter (gal) coating solids used.

D_c = Density of coating, kg coating per liter (gal) coating, determined according to §63.3941(c).

W_c = Mass fraction of organic HAP in the coating, kg organic HAP per kg coating, determined according to §63.3941(a).

V_s = Volume fraction of coating solids, liter (gal) coating solids per liter (gal) coating, determined according §63.394 1(b).

- v) *Compliance demonstration.* The calculated organic HAP content for each coating used during the initial compliance period must be less than or equal to 0.31 kg (2.6 lb) organic HAP per liter (gal) 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 §63.3941(a). [§63.3941(e)]
- 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 2 of §63.3941) exceeds 0.31 kg (2.6 lb) organic HAP per liter (gal) coating solids used, and use no thinner and/or other additive, or cleaning material that contains organic HAP, determined according to §63.3941(a). A compliance period consists of 12 months. Each month, after the end of the initial compliance period described in §63.3940, 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 §63.3890(c), the permittee must also perform the calculation using Equation 1 in §63.3890(c)(2) on a monthly basis using the data from the previous 12 months of operation. [§63.3942(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 0.31 kg (2.6 lb) organic HAP per liter (gal) 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 §63.3950, §63.3951, and §63.3952 to demonstrate compliance with the emission limit using this option. [§63.3891(b)]
- b) The permittee must complete the initial compliance demonstration for the initial compliance period according to the requirements of §63.3951. The permittee must determine the mass of organic HAP emissions and volume 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 §63.3951 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 of 0.31 kg (2.6 lb) organic HAP per liter (gal) coating solids used. [§63.3950]
- c) *Initial compliance demonstration.* To demonstrate initial compliance using the emission rate without add-on controls option, the metal coating operation must meet the applicable emission

limit, but is not required to meet the operating limits or work practice standards in §63.3892 and §63.3893, respectively. If the permittee is demonstrating compliance with a predominant activity or facility-specific emission limit as provided in §63.3890(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 §63.3951. When calculating the organic HAP emission rate according to §63.3951, 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. [§63.3951]

- i) *Determine 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 §63.3941(a). [§63.3951(a)]
- ii) *Determine the volume fraction of coating solids.* Determine the volume fraction of coating solids (liter (gal) of coating solids per liter (gal) of coating) for each coating used during each month according to the requirements in §63.3941(b). [§63.3951(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 the permittee is including powder coatings in the compliance determination, determine the density of powder coatings, using ASTM Method D5965-02, “Standard Test Methods for Specific Gravity of Coating Powders” (incorporated by reference, see §63.14), or information from the supplier. If there is disagreement between ASTM Method D1475-98 or ASTM Method D5965-02 test results 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 §63.3951. [§63.3951(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, and 1C of §63.3951. [§63.3951(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 §63.3951: [§63.3951(e)]

$$H_e = A + B + C - R_w \quad [§63.3951, \text{Equation 1}]$$

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 §63.3951.

B = Total mass of organic HAP in the thinners and/or other additives used during the month, kg, as calculated in Equation 1B of §63.3951.

C = Total mass of organic HAP in the cleaning materials used during the month, kg, as calculated in Equation 1C of §63.3951.

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 §63.3951(e)(4). (The permittee may assign a value of zero to R_w 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 §63.3951 : [§63.3951(e)(1)]

$$A = \sum_{i=1}^m \text{Vol}_{c,i} \times D_{c,i} \times W_{c,i} \quad [§63.3951, \text{Equation 1A}]$$

Where:

A = Total mass of organic HAP in the coatings 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, kg coating per liter coating.

$W_{c,i}$ = Mass fraction of organic HAP in coating, i, kg organic HAP per kg coating. For reactive adhesives as defined in §63.3981, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to subpart PPPP of part 63.

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 §63.3951: [§63.3951(e)(2)]

$$B = \sum_{j=1}^n \text{Vol}_{t,j} \times D_{t,j} \times W_{t,j} \quad [§63.3951, \text{Equation 1B}]$$

Where:

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

$\text{Vol}_{t,j}$ = Total volume of thinner and/or other additive, j, used during the month, liters.

$D_{t,j}$ = Density of thinner and/or other additive, j, kg per liter.

$W_{t,j}$ = 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 §63.3981, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to subpart PPPP of part 63.

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 1C of §63.3951: [§63.3951(e)(3)]

$$C = \sum_{k=1}^p \text{Vol}_{s,k} \times D_{s,k} \times W_{s,k} \quad [§63.3951, \text{Equation 1C}]$$

Where:

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

Vol_{s,k} = Total volume of cleaning material, k, used during the month, liters.

D_{s,k} = Density of cleaning material, k, kg per liter.

W_{s,k} = 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 §63.3951, then the permittee must determine the mass according to §63.3951(e)(4)(i) through (iv). [§63.3951(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 §63.3951 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 on-site. The permittee may not include organic HAP contained in wastewater. [§63.3951(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. [§63.3951(e)(4)(ii)]
- (c) Determine the total mass of organic HAP contained in the waste materials specified in §63.3951(e)(4)(ii). [§63.3951(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 §63.3930(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. [§63.3951(e)(4)(iv)]
- (5) Calculate the total volume of coating solids used. Determine the total volume of coating solids used, liters, which is the combined volume of coating solids for all the coatings used during each month, using Equation 2 of §63.3951: [§63.3951(f)]

$$V_{st} = \sum_{i=1}^m \text{Vol}_{c,i} \times V_{s,i} \quad [\text{§63.3951, Equation 2}]$$

Where:

V_{st} = Total volume of coating solids used during the month, liters.

Vol_{c,i} = Total volume of coating, i, used during the month, liters.

V_{s,i} = Volume fraction of coating solids for coating, i, liter solids per liter coating, determined according to §63.3941(b).

m = Number of coatings used during the month.

- vi) Calculate the organic HAP emission rate. Calculate the organic HAP emission rate for the compliance period, kg (lb) organic HAP emitted per liter (gal) coating solids used, using Equation 3 of §63.3951: [§63.3951(g)]

$$H_{yr} = \frac{\sum_{y=1}^n H_e}{\sum_{y=1}^n V_{st}} \quad [\text{\$63.3951, Equation 3}]$$

Where:

H_{yr} = Average organic HAP emission rate for the compliance period, kg organic HAP emitted per liter 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 §63.3951.

V_{st} = Total volume of coating solids used during month, y, liters, as calculated by Equation 2 of §63.3951.

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).

vii) *Compliance demonstration.* The organic HAP emission rate for the initial compliance period calculated using Equation 3 of §63.3951 must be less than or equal to 0.31 kg (2.6 lb) organic HAP per liter (gal) coating solids used or the predominant activity or facility-specific emission limit allowed in §63.3890(c). The permittee must keep all records as required by §63.3930 and §63.3931. As part of the notification of compliance status required by §63.3910, 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 the applicable emission limit in §63.3890, determined according to the procedures in this section. [§63.3951(h)]

d) *Continuous Compliance demonstration.* To demonstrate continuous compliance, the organic HAP emission rate for each compliance period, determined according to §63.3951(a) through (g), must be less than or equal to 0.31 kg (2.6 lb) organic HAP per liter (gal) coating solids used. A compliance period consists of 12 months. Each month after the end of the initial compliance period described in §63.3950 is the end of a compliance period consisting of that month and the preceding 11 months. The permittee must perform the calculations in §63.3951(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 §63.3890(c), the permittee must also perform the calculation using Equation 1 in §63.3890(c)(2) on a monthly basis using the data from the previous 12 months of operation. [§63.3952(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. [§63.3892(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. [§63.3893(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)(1)(i). [§63.3900(b)]

Record Keeping:

1. The permittee must collect and keep records of the data and information in §63.3930(a) through (j). Failure to collect and keep these records is a deviation from the applicable standard. [§63.3930]
 - 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 §63.3890(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 §63.3890(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. [§63.3930(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 volume fraction of coating solids for each coating. If the permittee conducted testing to determine mass fraction of organic HAP, density, or volume 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. [§63.3930(b)]
 - c) For each compliance period, the permittee must collect and keep records specified in §63.3930(c)(1) through (3). [§63.3930(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. [§63.3930(c)(1)]
 - ii) For the compliant material option, a record of the calculation of the organic HAP content for each coating, using Equation 2 of §63.3941. [§63.3930(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 §63.3951; and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to §63.3951(e)(4); the calculation of the total volume of coating solids used each month using Equation 2 of §63.3951; and the calculation of each 12-month organic HAP emission rate using Equation 3 of §63.3951. [§63.3930(c)(3)]
 - d) The permittee must collect and keep records of the name and volume 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 volume used. [§63.3930(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 unless the material is tracked by weight. [§63.3930(e)]
 - f) The permittee must collect and keep a record of the volume fraction of coating solids for each coating used during each compliance period. [§63.3930(f)]

- g) If the permittee uses the emission rate without add-on controls compliance option, the permittee must collect and keep a record of the density for each coating, thinner and/or other additive, and cleaning material used during each compliance period. [§63.3930(g)]
- h) If the permittee uses an allowance in Equation 1 of §63.3951 for organic HAP contained in waste materials sent to or designated for shipment to a treatment, storage, and disposal facility (TSDF) according to §63.3951(e)(4), the permittee must keep records of the information specified in §63.3930(h)(1) through (3). [§63.3930(h)]
 - 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 §63.3951; a statement of which subparts under 40 CFR Parts 262, 264, 265, and 266 apply to the facility; and the date of each shipment. [§63.3930(h)(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 §63.3951. [§63.3930(h)(2)]
 - iii) The methodology used in accordance with §63.3951(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. [§63.3930(h)(3)]
 - iv) The permittee must keep records of the date, time, and duration of each deviation. [§63.3930(j)]
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. [§63.3931(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. [§63.3931(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. [§63.3931(c)]

Reporting:

1. *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 §63.3940 or §63.3950 that applies to the affected source. The notification of compliance status must contain the information specified in §63.3910(c)(1) through (8), (10) through (11) and in §63.9(h). [§63.3910(c)]
 - a) Company name and address. [§63.3910(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. [§63.3910(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 §63.3940 or §63.3950 that applies to the affected source. [§63.3910(c)(3)]

- d) Identification of the compliance option or options specified in §63.3891 that the permittee used on each coating operation in the affected source during the initial compliance period. [§63.3910(c)(4)]
 - e) Statement of whether or not the affected source achieved the emission limitations for the initial compliance period. [§63.3910(c)(5)]
 - f) If the permittee had a deviation, include the information in §63.3910(c)(6)(i) and (ii). [§63.3910(c)(6)]
 - i) A description and statement of the cause of the deviation. [§63.3910(c)(6)(i)]
 - ii) If the permittee failed to meet the applicable emission limit in §63.3890, include all the calculations the permittee used to determine the kg (lb) of organic HAP emitted per liter (gal) coating solids used. The permittee does not need to submit information provided by the materials' suppliers or manufacturers, or test reports. [§63.3910(c)(6)(ii)]
 - g) For each of the data items listed in §63.3910(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 §63.3941(a), (b), or (c). The permittee does not need to submit copies of any test reports. [§63.3910(c)(7)]
 - i) Mass fraction of organic HAP for one coating, for one thinner and/or other additive, and for one cleaning material. [§63.3910(c)(7)(i)]
 - ii) Volume fraction of coating solids for one coating. [§63.3910(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. [§63.3910(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 §63.3951. [§63.3910(c)(7)(iv)]
 - h) The calculation of kg (lb) of organic HAP emitted per liter (gal) coating solids used for the compliance option(s) the permittee used, as specified in §63.3910(c)(8)(i) through (ii). [§63.3910(c)(8)]
 - i) For the compliant material option, provide an example calculation of the organic HAP content for one coating, using Equation 2 of §63.3941. [§63.3910(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 volume of coating solids used each month; and the calculation of the 12-month organic HAP emission rate using Equations 1 and 1A through 1C, 2, and 3, respectively, of §63.3951. [§63.3910(c)(8)(ii)]
 - i) If the permittee is complying with a single emission limit representing the predominant activity under §63.3890(c)(1), include the calculations and supporting information used to demonstrate that this emission limit represents the predominant activity as specified in §63.3890(c)(1). [§63.3910(c)(10)]
 - j) If the permittee is complying with a facility-specific emission limit under §63.3890(c)(2), include the calculation of the facility-specific emission limit and any supporting information as specified in §63.3890(c)(2). [§63.3910(c)(11)]
2. *Semiannual compliance reports.* The permittee must submit semiannual compliance reports for each metal coating operation according to the requirements of §63.3920(a)(1) through (7). The

semiannual compliance reporting requirements may be satisfied by reports required under other parts of the Clean Air Act (CAA), as specified in §63.3920(a)(2). [§63.3920(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 §63.3920(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. [§63.3920(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 §63.3940 or §63.3950 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. [§63.3920(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. [§63.3920(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. [§63.3920(a)(1)(iii)]
 - 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 §63.3920(a)(1)(iii). [§63.3920(a)(1)(iv)]
- 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. [§63.3920(a)(2)]
- c) *General requirements.* The semiannual compliance report must contain the information specified in §63.3920(a)(3)(i) through (vii), and the information specified in §63.3920(a)(4) through (6) that is applicable to the affected source. [§63.3920(a)(3)]
 - i) Company name and address. [§63.3920(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. [§63.3920(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. [§63.3920(a)(3)(iii)]
 - iv) Identification of the compliance option or options specified in §63.3891 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. [§63.3920(a)(3)(iv)]
 - v) If the permittee used the emission rate without add-on controls compliance option (§63.3891(b)), the calculation results for each rolling 12-month organic HAP emission rate during the 6-month reporting period. [§63.3920(a)(3)(v)]

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- vi) If the permittee used the predominant activity alternative (§63.3890(c)(1)), include the annual determination of predominant activity if it was not included in the previous semi-annual compliance report. [§63.3920(a)(3)(vi)]
 - vii) If the permittee used the facility-specific emission limit alternative (§63.3890(c)(2)), include the calculation of the facility-specific emission limit for each 12-month compliance period during the 6-month reporting period. [§63.3920(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. [§63.3920(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 §63.3920(a)(5)(i) through (iv). [§63.3920(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. [§63.3920(a)(5)(i)]
 - ii) The calculation of the organic HAP content (using Equation 2 of §63.3941) for each coating identified in §63.3920(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). [§63.3920(a)(5)(ii)]
 - iii) The determination of mass fraction of organic HAP for each thinner and/or other additive, and cleaning material identified in §63.3920(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). [§63.3920(a)(5)(iii)]
 - iv) A statement of the cause of each deviation. [§63.3920(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 §63.3920(a)(6)(i) through (iii). [§63.3920(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 §63.3890. [§63.3920(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 1C, 2, and 3 of §63.3951; and if applicable, the calculation used to determine mass of organic HAP in waste materials according to §63.3951(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). [§63.3920(a)(6)(ii)]
 - iii) A statement of the cause of each deviation. [§63.3920(a)(6)(iii)]
3. 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.

PERMIT CONDITION 002	
10 CSR 10-6.075 Maximum Achievable Control Technology Regulations 40 CFR Part 63 Subpart P National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products	
Emission Unit	Description
EP#11A	Touchup Booth
EP#11B	Specialty Booth
EP#12A	Finish Paint Booth
EP#1A	Cabs Paint Booth
EP#2	Small Parts Paint Booth
EP#5	Prime Booth
EP#1B	Cabs and Small Parts Paint Curing Oven
EP#3	Prime Booth Curing Oven
EU0009	Ottawa Paint Curing Oven
EP#12B	Finish Paint Booth Curing Oven
EP#9A	Assembly Area Priming and Adhesives

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. Predominant Activity

- a) The permittee may comply with the emission limitation representing the predominant surface coating activity at the facility, as determined according to §63.4481(e)(2)(i) and (ii). [§63.4481(e)(2)]
 - i) If the plastic parts and products surface coating operation accounts for ninety percent (90%) or more of the surface coating activity (that is, the predominant activity), then compliance with the emission limitations of the predominant activity for all surface coating operations constitutes compliance with these and other applicable surface coating NESHAP. In determining predominant activity, 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 coating activities need not be included in the determination of predominant activity but must be included in the compliance calculation. [§63.4481(e)(2)(i)]
 - ii) The permittee must use kilogram (kg) (pound (lb)) of solids used as a measure of relative surface coating activity over a representative period of operation. The permittee may estimate the relative 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 determination of predominant activity must accurately reflect current and projected coating operations and must be verifiable through appropriate documentation. The use of parameters other than coating consumption and mass solids content must be approved by the Administrator. The permittee may use data for any reasonable time period of at least one (1) year in determining the relative amount of coating activity, as long as they represent the way the source will continue to operate in the future and are approved by the Administrator. The permittee must determine the predominant activity at the facility and submit the results of that determination with the initial notification required by §63.4510(b). The permittee must also determine predominant activity annually and include the determination in the next semi-annual compliance report required by §63.4520(a). [§63.4481(e)(2)(ii)]
- b) If the permittee is complying with subpart MMMM as the NESHAP that constitutes the predominant activity at the facility under §63.4481(e)(2) to constitute compliance with subpart PPPP for the plastic coating operations, then the permittee must include a statement to this effect in the initial notification and no other notifications are required under subpart PPPP. [§63.4510(b)]

2. 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_i = 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_i = 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 one 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. (see Attachments H or I) 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)]

- 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)]

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

Where:

H_c = Organic HAP content of the coating, kg (lb) of organic HAP emitted per kg (lb) coating solids used.

W_c = Mass fraction of organic HAP in the coating, kg organic HAP per kg coating, determined according to §63.4541(a).

S_c = 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 TSD 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)]

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

Where:

A = Total mass of organic HAP in the coatings 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, kg coating per liter coating.

$W_{c,i}$ = 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)]

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

Where:

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

Vol_{t,j} = Total volume of thinner and/or other additive, j, used during the month, liters.

D_{t,j} = Density of thinner and/or other additive, j, kg per liter.

W_{t,j} = 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)]

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

Where:

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

Vol_{s,k} = Total volume of cleaning material, k, used during the month, liters.

D_{s,k} = Density of cleaning material, k, kg per liter.

W_{s,k} = 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 §63.4551, 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)(1)(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. *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)]
2. *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)]
 - 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)]

3. 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.

PERMIT CONDITION 003	
10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants	
Emission Unit	Description
EP#11A	Touchup Booth
EP#11B	Specialty Booth
EP#12A	Finish Paint Booth
EP#1A	Cabs Paint Booth
EP#2	Small Parts Paint Booth
EP#5	Prime Booth

Emission Limitation:

1. No owner or other person shall cause or permit to be discharged into the atmosphere from any 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 sixty (60) minutes air contaminants with an opacity up to 60%.

Monitoring:

1. The permittee shall conduct opacity readings on these emission units using the procedures contained in U.S. EPA Test Method 22. Readings are only required when the emission units are 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 (8) 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 weeks for a period of eight (8) 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, using Attachments B and J or equivalent form generated by the permittee, 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.
 3. The permittee shall maintain records of any U.S. EPA Method 9 opacity test performed in accordance with this permit condition.
 4. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
 5. All records must be maintained for five (5) 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 fifteen (15) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could possibly cause an exceedance of this regulation.
2. The permittee shall report any deviations from the emission limitation, 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.

PERMIT CONDITION 004	
10 CSR 10-6.400 Restriction of Emission of Particulate Matter from Industrial Processes	
Emission Unit	Description
EP#11A	Touchup Booth
EP#11B	Specialty Booth
EP#12A	Finish Paint Booth
EP#1A	Cabs Paint Booth
EP#2	Small Parts Paint Booth
EP#5	Prime Booth

Emission Limitation:

1. The permittee shall not emit particulate matter in excess of 1.62 lbs/hr from emission units EP#11A, EP#11B, and EP#12A.
2. The permittee shall not emit particulate matter in excess of 0.98 lbs/hr from emission unit EP#1A.
3. The permittee shall not emit particulate matter in excess of 0.88 lbs/hr from emission unit EP#2.
4. The permittee shall not emit particulate matter in excess of 1.03 lbs/hr from emission unit EP#5.
5. No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grain per standard cubic foot of exhaust gases.

Monitoring/Record Keeping

1. The booths shall not be operated without a filter in place.
2. Filters shall be inspected for holes, imperfections, proper installation, and other problems that could hinder their effectiveness.
3. The permittee shall inspect the filters every shift prior to the booth's usage.
4. The permittee shall adhere to the manufacturer's recommendations for installation of the filters and replacement frequency.
5. Attachment G or an equivalent form generated by the permittee shall be used to log all inspections and maintenance required for these emission units.

6. The permittee shall retain the potential to emit calculations in Attachment K which demonstrate that the above emission limitation will never be exceeded while the filters are being properly used and maintained.
7. The calculation shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
8. All records shall be kept for a period of five (5) 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 fifteen (15) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could possibly cause an exceedance of this regulation.
2. The permittee shall report any deviations from the emission limitation, 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.

PERMIT CONDITION 005	
10 CSR 10-6.060 Construction Permits Required	
Construction Permit No. 032003-002, Issued February 26, 2003	
Emission Unit	Description
EP#11A	Touchup Booth
EP#11B	Specialty Booth
EP#12A	Finish Paint Booth

Emission Limitation:

1. Special Condition 2.D: The permittee shall emit less than ten (10) tons of any single Hazardous Air Pollutant (HAP) in any consecutive twelve (12) month period from EP#11A Touchup Booth and EP#11B Specialty Booth.
2. Special Condition 2.E: The permittee shall emit less than ten (10) tons of any single Hazardous Air Pollutant (HAP) in any consecutive twelve (12) month period from EP#12A Finish Paint Booth.
3. Special Condition 2.D: The permittee shall emit less than twenty-five (25) tons combined HAPs in any consecutive twelve (12) month period from EP#11A Touchup Booth and EP#11B Specialty Booth.
4. Special Condition 2.E: The permittee shall emit less than twenty-five (25) tons combined HAPs in any consecutive twelve (12) month period from EP#12A Finish Paint Booth.

Monitoring/Record Keeping:

1. Attachments L and M or equivalent forms generated by the permittee shall be used to demonstrate compliance with Special Condition 2.D and 2.E of construction permit no. 032003-002.
2. The permittee shall maintain all records required by construction permit no. 032003-002 for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request.
3. Material Safety Data Sheets (MSDS) for all materials used at the installation shall be kept on site.

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 any exceedance of any of the terms imposed by this regulation, or any malfunction which could possibly cause an exceedance of this regulation.
2. The permittee shall report any deviations from the emission limitation, 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.

PERMIT CONDITION 006	
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 Unit	Description
EP#6	Open-Mold and Tooling Gelcoating Booths
EU0022	Composites Resin Tank (T1)
EU0023	Open-Mold Resin Tank (T2)
EU0024	Open-Mold Resin Tank (T3)
EU0025	Open-Mold Resin Tank (T4)
EP#7	Open-Mold and Tooling Resin Lamination

Emission/Operational Limitations:

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]

1. If you have an existing facility that has any centrifugal casting or continuous casting/lamination operations, you must meet the requirements of paragraph (a)(1) or (2) of this section: [§63.5805(a)]
 - a) If the combination of all centrifugal casting and continuous lamination/casting operations emit 100 tpy or more of HAP, you must reduce the total organic HAP emissions from centrifugal casting and continuous lamination/casting operations by at least 95 percent by weight. As an alternative to meeting the 95 percent by weight requirement, centrifugal casting operations may meet the applicable organic HAP emissions limits in Table 5 to this subpart (shown in Attachment N) and continuous lamination/casting operations may meet an organic HAP emissions limit of 1.47 lbs/ton of neat resin plus and neat gel coat plus applied. For centrifugal casting, the percent reduction requirement does not apply to organic HAP emissions that occur during resin application onto an open centrifugal casting mold using open molding application techniques. [§63.5805(a)(1)]
 - b) If the combination of all centrifugal casting and continuous lamination/casting operations emit less than 100 tpy of HAP, then centrifugal casting and continuous lamination/casting operations must meet the appropriate requirements in Table 3 to this subpart (shown in Attachment O). [§63.5805(a)(2)]
2. 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 (shown in Attachment O) and the work practice standards in Table 4 to this subpart (shown in Attachment P) that apply, regardless of the quantity of HAP emitted. [§63.5805(b)]
3. If you have a new facility that emits less than 100 tpy of HAP from the combination of all open molding, centrifugal casting, continuous lamination/casting, pultrusion, SMC manufacturing,

- mixing, and BMC manufacturing, you must meet the organic HAP emissions limits in Table 3 to this subpart (shown in Attachment O) and the work practice standards in Table 4 to this subpart (shown in Attachment P) that apply to you. [§63.5805(c)]
4. Except as provided in paragraph (d)(2) of this section, if you have a new facility that emits 100 tpy or more of HAP from the combination of all open molding, centrifugal casting, continuous lamination/casting, pultrusion, SMC manufacturing, mixing, and BMC manufacturing, you must reduce the total organic HAP emissions from these operations by at least 95 percent by weight and meet any applicable work practice standards in Table 4 to this subpart (shown in Attachment P) that apply to you. As an alternative to meeting 95 percent by weight, you may meet the organic HAP emissions limits in Table 5 to this subpart (shown in Attachment N). If you have a continuous lamination/casting operation, that operation may alternatively meet an organic HAP emissions limit of 1.47 lbs/ton of neat resin plus and neat gel coat plus applied. [§63.5805(d)(1)]
 - a) If your new facility manufactures large reinforced plastic composites parts using open molding or pultrusion operations, the specific open molding and pultrusion operations used to produce large parts are not required to reduce HAP emissions by 95 weight percent, but must meet the emission limits in Table 3 to this subpart (shown in Attachment O). [§63.5805(d)(2)(i)]
 - i) A large open molding part is defined as a part that, when the final finished part is enclosed in the smallest rectangular six-sided box into which the part can fit, the total interior volume of the box exceeds 250 cubic feet, or any interior sides of the box exceed 50 square feet. [§63.5805(d)(2)(ii)]
 - ii) A large pultruded part is a part that exceeds an outside perimeter of 24 inches or has more than 350 reinforcements. [§63.5805(d)(2)(iii)]
 5. If you have a new or existing facility subject to paragraph (a)(2) or (c) of this section at its initial compliance date that subsequently meets or exceeds the 100 tpy threshold in any calendar year, you must notify your permitting authority in your compliance report. You may at the same time request a one-time exemption from the requirements of paragraph (a)(1) or (d) of this section in your compliance report if you can demonstrate all of the following: [§63.5805(e)]
 - a) The exceedance of the threshold was due to circumstances that will not be repeated. [§63.5805(e)(1)]
 - b) The average annual organic HAP emissions from the potentially affected operations for the last 3 years were below 100 tpy. [§63.5805(e)(2)]
 - c) Projected organic HAP emissions for the next calendar year are below 100 tpy, based on projected resin and gel coat use and the HAP emission factors calculated according to the procedures in §63.5799. [§63.5805(e)(3)]
 6. If you apply for an exemption in paragraph (e) of this section and subsequently exceed the HAP emission thresholds specified in paragraph (a)(2) or (c) of this section over the next 12-month period, you must notify the permitting authority in your semiannual report, the exemption is removed, and your facility must comply with paragraph (a)(1) or (d) of this section within 3 years from the time your organic HAP emissions first exceeded the threshold. [§63.5805(f)]
 7. 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 (shown in Attachments O and P) 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)]
 8. If you use an add-on control device to comply with this subpart, you must meet all requirements contained in 40 CFR Part 63, subpart SS. [§63.5805(h)]

Monitoring:

1. Emissions factors are used in this subpart to determine compliance with certain organic HAP emissions limits in Tables 3 and 5 to this subpart (shown in Attachments O and N). You may use the equations in Table 1 to this subpart (shown in Attachment Q) 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 (shown in Attachment Q), combined with resin and gel coat use data, to calculate your organic HAP emissions. [§63.5796]
2. 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 one 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)]
3. To calculate your facility's organic HAP emissions in tpy for purposes of determining which paragraphs in §63.5805 apply to you, you must use the procedures in either paragraph (a) of this section for new facilities prior to startup, or paragraph (b) of this section for existing facilities and new facilities after startup. You are not required to calculate or report emissions under this section if you are an existing facility that does not have centrifugal casting or continuous lamination/casting operations, or a new facility that does not have any of the following operations: Open molding, centrifugal casting, continuous lamination/casting, pultrusion, SMC and BMC manufacturing, and mixing. Emissions calculation and emission reporting procedures in other sections of this subpart still apply. Calculate organic HAP emissions prior to any add-on control device, and do not include organic HAP emissions from any resin or gel coat used in operations subject to the Boat Manufacturing NESHAP, 40 CFR Part 63, subpart VVVV, or from the manufacture of large parts as defined in §63.5805(d)(2). For centrifugal casting operations at existing facilities, do not include any organic HAP emissions where resin or gel coat is applied to an open centrifugal mold using open

molding application techniques. Table 1 and the Table 1 footnotes to this subpart (Attachment Q) present more information on calculating centrifugal casting organic HAP emissions. The timing and reporting of these calculations is discussed in paragraph (c) of this section. [§63.5799]

- a) For new facilities prior to startup, calculate a weighted average organic HAP emissions factor for the operations specified in §63.5805(c) and (d) on a lbs/ton of resin and gel coat basis. Base the weighted average on your projected operation for the 12 months subsequent to facility startup. Multiply the weighted average organic HAP emissions factor by projected resin use over the same period. You may calculate your organic HAP emissions factor based on the factors in Table 1 to this subpart, or you may use any HAP emissions factor approved by us, such as factors from the “Compilation of Air Pollutant Emissions Factors, Volume I: Stationary Point and Area Sources (AP-42),” or organic HAP emissions test data from similar facilities. [§63.5799(a)]
 - b) For existing facilities and new facilities after startup, you may use the procedures in either paragraph (b)(1) or (2) of this section. If the emission factors for an existing facility have changed over the period of time prior to their initial compliance date due to incorporation of pollution-prevention control techniques, existing facilities may base the average emission factor on their operations as they exist on the compliance date. If an existing facility has accepted an enforceable permit limit that would result in less than 100 tpy of HAP measured prior to any add-on controls, and can demonstrate that they will operate at that level subsequent to the compliance date, they can be deemed to be below the 100 tpy threshold. [§63.5799(b)]
 - 1) *Use a calculated emission factor.* Calculate a weighted average organic HAP emissions factor on a lbs/ton of resin and gel coat basis. Base the weighted average on the prior 12 months of operation. Multiply the weighted average organic HAP emissions factor by resin and gel coat use over the same period. You may calculate this organic HAP emissions factor based on the equations in Table 1 to this subpart, or you may use any organic HAP emissions factor approved by us, such as factors from AP-42, or site-specific organic HAP emissions factors if they are supported by HAP emissions test data. [§63.5799(b)(1)]
 - 2) *Conduct performance testing.* Conduct performance testing using the test procedures in §63.5850 to determine a site-specific organic HAP emissions factor in units of lbs/ton of resin and gel coat used. Conduct the test under conditions expected to result in the highest possible organic HAP emissions. Multiply this factor by annual resin and gel coat use to determine annual organic HAP emissions. This calculation must be repeated and reported annually. [§63.5799(b)(2)]
 - c) Existing facilities must initially perform this calculation based on their 12 months of operation prior to April 21, 2003, and include this information with their initial notification report. Existing facilities must repeat the calculation based on their resin and gel coat use in the 12 months prior to their initial compliance date, and submit this information with their initial compliance report. After their initial compliance date, existing and new facilities must recalculate organic HAP emissions over the 12-month period ending June 30 or December 31, whichever date is the first date following their compliance date specified in §63.5800. Subsequent calculations should cover the periods in the semiannual compliance reports. [§63.5799(c)]
4. 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 (shown in Attachments O and N) . 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 (shown in Attachments O and N). 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]

a) *Demonstrate that an individual resin or gel coat, as applied, meets the applicable emission limit in Table 3 or 5 to this subpart (shown in Attachments O and N).* [§63.5810(a)]

- 1) 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 (shown in Attachment Q) 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.

$$\text{Add-on Control Factor} = 1 - \frac{\% \text{ Control Efficiency}}{100} \quad (\text{Eq. 1})$$

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)]

- 2) 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 (shown in Attachment O). 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 (shown in Attachment O) that applies to you. [§63.5810(b)]

- 1) 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 (shown in Attachment O) 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.

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

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)]

- (i) 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)]
- 2) 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 (shown in Attachments O and N). 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 (shown in Attachments O and N) 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)]
 - 1) 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 (shown in Attachments O and N) 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.

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

Where:

EL_i = organic HAP emissions limit for operation type i, lbs/ton from Tables 3 or 5 to this subpart (shown in Attachments O and N);

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)]

- 2) 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.

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

Where:

Actual Individual 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)]

- 3) 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)]
 - 1) 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 (shown in Attachment R) 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 (shown in Attachment R), the resin is in compliance. [§63.5810(d)(1)]
 - 2) 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 (shown in Attachment R).
[§63.5810(d)(2)]

- 3) 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)]
- 4) 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)]
5. You must be in compliance at all times with the work practice standards in Table 4 to this subpart (shown in Attachment P), as well as the organic HAP emissions limits in Tables 3, or 5, (shown in Attachments O and N) or the organic HAP content limits in Table 7 to this subpart (shown in Attachment R), as applicable, that you are meeting without the use of add-on controls.
[§63.5835(a)]
 - a) 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)]
 - b) 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)]
 - c) 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)]
6. During production, you must collect and keep a record of data as indicated in 40 CFR Part 63, subpart SS, if you are using an add-on control device. [§63.5895(a)]
 - a) You must monitor and collect data as specified in paragraphs (b)(1) through (4) of this section.
[§63.5895(b)]
 - 1) Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), you must conduct all monitoring in continuous operation (or collect data at all required intervals) at all times that the affected source is operating. [§63.5895(b)(1)]
 - 2) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes to this subpart, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. You must use all the data collected during all other periods in assessing the operation of the control device and associated control system. [§63.5895(b)(2)]
 - 3) At all times, you must maintain necessary parts for routine repairs of the monitoring equipment. [§63.5895(b)(3)]
 - 4) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring equipment to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. [§63.5895(b)(4)]

- b) You must collect and keep records of resin and gel coat use, organic HAP content, and operation where the resin is used if you are meeting any organic HAP emissions limits based on an organic HAP emissions limit in Tables 3 or 5 to this subpart (shown in Attachments O and N). You must collect and keep records of resin and gel coat use, organic HAP content, and operation where the resin is used if you are meeting any organic HAP content limits in Table 7 to this subpart (shown in Attachment R) if you are averaging organic HAP contents. Resin use records may be based on purchase records if you can reasonably estimate how the resin is applied. The organic HAP content records may be based on MSDS or on resin specifications supplied by the resin supplier. [§63.5895(c)]
 - c) Resin and gel coat use records are not required for the individual resins and gel coats that are demonstrated, as applied, to meet their applicable emission as defined in §63.5810(a). However, you must retain the records of resin and gel coat organic HAP content, and you must include the list of these resins and gel coats and identify their application methods in your semiannual compliance reports. If after you have initially demonstrated that a specific combination of an individual resin or gel coat, application method, and controls meets its applicable emission limit, and the resin or gel coat changes or the organic HAP content increases, or you change the application method or controls, then you again must demonstrate that the individual resin or gel coat meets its emission limit as specified in paragraph (a) of §63.5810. If any of the previously mentioned changes results in a situation where an individual resin or gel coat now exceeds its applicable emission limit in Table 3 or 5 of this subpart (shown in Attachments O and N), you must begin collecting resin and gel coat use records and calculate compliance using one of the averaging options on a 12-month rolling average. [§63.5895(d)]
 - d) For each of your pultrusion machines, you must record all times that wet area enclosures doors or covers are open and there is resin present in the resin bath. [§63.5895(e)]
7. 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 for sources using add-on control devices is demonstrated following the procedures in 40 CFR Part 63, subpart SS. Sources using add-on controls may also use continuous emissions monitors to demonstrate continuous compliance as an alternative to control parameter monitoring. [§63.5900(a)(1)]
 - b) 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 (shown in Attachments O and N), 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)]
 - c) Compliance with organic HAP content limits in Table 7 to this subpart (shown in Attachment R) 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 (shown in Attachment R), as discussed in §63.5895(d). [§63.5900(a)(3)]
 - d) Compliance with the work practice standards in Table 4 to this subpart (shown in Attachment P) is demonstrated by performing the work practice required for your operation. [§63.5900(a)(4)]
 - e) 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)]

- f) 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)]
- g) When you use an add-on control device to meet standards in §63.5805, you are not required to meet those standards during periods of startup, shutdown, or malfunction, but you must operate your affected source to minimize emissions in accordance with §63.6(e)(1). [§63.5900(d)]
- h) 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)]

Record Keeping:

- 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)]
 - d) If you use an add-on control device, you must keep all records required in 40 CFR Part 63, subpart SS, to show continuous compliance with this subpart. [§63.5915(b)]
 - e) 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 (shown in Attachments O, N, and R). [§63.5915(c)]
 - f) You must keep a certified statement that you are in compliance with the work practice requirements in Table 4 to this subpart (shown in Attachment P), as applicable. [§63.5915(d)]
 - g) For a new or existing continuous lamination/ casting operation, you must keep the records listed in paragraphs (e)(1) through (4) of this section, when complying with the percent reduction and/or lbs/ton requirements specified in paragraphs (a) and (c) through (d) of §63.5805. [§63.5915(e)]
 - 1) You must keep all data, assumptions, and calculations used to determine percent reduction and/or lbs/ton as applicable; [§63.5915(e)(1)]
 - 2) You must keep a brief description of the rationale for the assignment of an equation or factor to each formula; [§63.5915(e)(2)]
 - 3) When using facility-specific organic HAP emissions estimation equations or factors, you must keep all data, assumptions, and calculations used to derive the organic HAP emissions estimation equations and factors and identification and rationale for the worst-case formula; and [§63.5915(e)(3)]
 - 4) For all organic HAP emissions estimation equations and organic HAP emissions factors, you must keep documentation that the appropriate permitting authority has approved them. [§63.5915(e)(4)]
- 2. 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)]

- a) 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)]
- b) 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)]
- c) 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 all of the notifications in Table 13 to this subpart (shown in Attachment S) that apply to you by the dates specified in Table 13 to this subpart (shown in Attachment S). The notifications are described more fully in 40 CFR Part 63, subpart A, referenced in Table 13 to this subpart (shown in Attachment S). [§63.5905(a)]
 - a) 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)]
2. You must submit each report in Table 14 to this subpart (shown in Attachment T) that applies to you. [§63.5910(a)]
 - a) 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 (shown in Attachment T) and according to paragraphs (b)(1) through (5) of this section. [§63.5910(b)]
 - 1) 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)]
 - 2) 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)]
 - 3) 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)]
 - 4) 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)]
 - 5) 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)]
 - b) The compliance report must contain the information in paragraphs (c)(1) through (6) of this section: [§63.5910(c)]
 - 1) Company name and address. [§63.5910(c)(1)]
 - 2) 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)]
 - 3) Date of the report and beginning and ending dates of the reporting period. [§63.5910(c)(3)]

- 4) 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)]
- 5) 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 (shown in Attachment P), 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)]
- 6) If there were no periods during which the continuous monitoring system (CMS), including a continuous emissions monitoring system (CEMS) and an operating parameter monitoring system were out of control, as specified in §63.8(c)(7), a statement that there were no periods during which the CMS was out of control during the reporting period. [§63.5910(c)(6)]
- c) 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)]
 - 1) The total operating time of each affected source during the reporting period. [§63.5910(d)(1)]
 - 2) 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)]
- d) For each deviation from an organic HAP emissions limitation (*i.e.*, emissions limit and operating limit) occurring at an affected source where you are using a CMS to comply with the organic HAP emissions limitation in this subpart, you must include the information in paragraphs (c)(1) through (4) of this section and in paragraphs (e)(1) through (12) of this section. This includes periods of startup, shutdown, and malfunction. [§63.5910(e)]
 - 1) The date and time that each malfunction started and stopped. [§63.5910(e)(1)]
 - 2) The date and time that each CMS was inoperative, except for zero (low-level) and high-level checks. [§63.5910(e)(2)]
 - 3) The date, time, and duration that each CMS was out of control, including the information in §63.8(c)(8). [§63.5910(e)(3)]
 - 4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction, or during another period. [§63.5910(e)(4)]
 - 5) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period. [§63.5910(e)(5)]
 - 6) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes. [§63.5910(e)(6)]
 - 7) A summary of the total duration of CMS downtime during the reporting period and the total duration of CMS downtime as a percent of the total source operating time during that reporting period. [§63.5910(e)(7)]
 - 8) An identification of each organic HAP that was monitored at the affected source. [§63.5910(e)(8)]
 - 9) A brief description of the process units. [§63.5910(e)(9)]

- 10) A brief description of the CMS. [§63.5910(e)(10)]
- 11) The date of the latest CMS certification or audit. [§63.5910(e)(11)]
- 12) A description of any changes in CMS, processes, or controls since the last reporting period. [§63.5910(e)(12)]
- e) You must report if you have exceeded the 100 tpy organic HAP emissions threshold if that exceedance would make your facility subject to §63.5805(a)(1) or (d). Include with this report any request for an exemption under §63.5805(e). If you receive an exemption under §63.5805(e) and subsequently exceed the 100 tpy organic HAP emissions threshold, you must report this exceedance as required in §63.5805(f). [§63.5910(f)]
- f) 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 (shown in Attachment T) 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)]
- g) Submit compliance reports and startup, shutdown, and malfunction reports based on the requirements in table 14 to this subpart (shown in Attachment T), and not based on the requirements in §63.999. [§63.5910(h)]
- h) 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)]
- 3. The permittee shall report any deviations from the emission/operational limitations, 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.

PERMIT CONDITION 007	
10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants	
Emission Unit	Description
EP#6	Open-Mold and Tooling Gelcoating Booths

Emission Limitation:

- 1. No owner or other person shall cause or permit to be discharged into the atmosphere from any 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 sixty (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. Readings are only required when the emission units are 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 (8) 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 weeks for a period of eight (8) 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, using Attachments B and J or equivalent form generated by the permittee, noting:
 - a) Whether any air emissions (except for water vapor) were visible from the emission unit,
 - 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.
3. The permittee shall maintain records of any U.S. EPA Method 9 opacity test performed in accordance with this permit condition.
4. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
5. All records must be maintained for five (5) 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 fifteen (15) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could possibly cause an exceedance of this regulation.
2. The permittee shall report any deviations from the emission limitation, 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.

PERMIT CONDITION 008	
10 CSR 10-6.400 Restriction of Emission of Particulate Matter from Industrial Processes	
Emission Unit	Description
EP#6	Open-Mold and Tooling Gelcoating Booths

Emission Limitation:

1. The permittee shall not emit particulate matter in excess of 1.71 lbs/hr from this emission unit.
2. No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grain per standard cubic foot of exhaust gases.

Monitoring/Record Keeping:

1. The booths shall not be operated without a filter in place.

2. Filters shall be inspected for holes, imperfections, proper installation, and other problems that could hinder their effectiveness.
3. The permittee shall inspect the filters every shift prior to the booth's usage.
4. The permittee shall adhere to the manufacturer's recommendations for installation of the filters and replacement frequency.
5. Attachment G or an equivalent form generated by the permittee shall be used to log all inspections and maintenance required for these emission units.
6. The permittee shall retain the potential to emit calculations in Attachment K which demonstrate that the above emission limitation will never be exceeded while the filters are being properly used and maintained.
7. The calculation shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
8. All records shall be kept for a period of five (5) 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 fifteen (15) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could possibly cause an exceedance of this regulation.
2. The permittee shall report any deviations from the emission limitation, 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.

PERMIT CONDITION 009	
10 CSR 10-6.060 Construction Permits Required Construction Permit No. 032003-002, Issued February 26, 2003	
Emission Unit	Description
EU0031	Sander #1
EU0032	Sander #2
EU0033	Sander #3
EU0034	Sander #4
EU0035	Sander #5
EU0036	Sander #6
EU0037	Sander #7
EU0038	Sander #8
EU0039	Sander #9
EU0040	Sander #10

Operational Limitation:

Special Condition 7: The permittee shall control particulate matter less than ten (10) microns in aerodynamic diameter (PM₁₀) from the dry sanding operations using a dust control system. The dust control system shall be operated and maintained in accordance with manufacturer's specifications.

Monitoring:

1. The dust control system controlling emissions from the dry sanding operations shall be inspected for holes, imperfections, proper installation, or other problems that could hinder the effectiveness of the system.
2. The system shall be inspected each shift prior to use. If the permittee is not going to use the sanders that shift they may note "not used this shift" rather than inspecting.

Record Keeping:

1. The permittee shall maintain records of the inspections of the system when they occur.
 - a) All inspections, corrective actions, and instrument calibrations shall be recorded.
 - b) Attachment G contains a log including these record keeping requirements. This log, or an equivalent form created by the permittee, must be used to certify compliance with this permit condition.
2. All records shall be kept on-site for a minimum of five (5) years and made available to 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 fifteen (15) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could possibly cause an exceedance of this regulation.
2. The permittee shall report any deviations from the operational limitation, 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.

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 & 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 Able Manufacturing & Assembly, LLC 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.

10 CSR 10-6.050 Start-up, Shutdown and Malfunction Conditions
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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 complete required reports on state supplied EIQ forms or in a form satisfactory to the Director and the reports shall be submitted to the Director by June 1 after the end of each reporting 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.
- 5) 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.

10 CSR 10-6.065(6)(C)6 Permit Shield

- 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, KS 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. Peter Salmon, Vice President - Operations. 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.

10 CSR 10-6.065(6)(E)1.C Statement of Basis

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.

15. Attachment H
 Table 3 to 40 CFR Part 63 Subparts M MMM and P PPP –
 Default Organic HAP Mass Fraction for Solvents and Solvent Blends

The permittee may use the average organic HAP mass fractions listed in this table for solvents/solvent blends for which the permittee does not have test data or manufacturer’s formulation data.

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 [®] 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.

16. **Attachment I**
Table 4 to 40 CFR Part 63 Subparts MMMM and PPPP –
Default Organic HAP Mass Fraction for Petroleum Solvent Groups^a

The permittee may use the average organic HAP mass fractions listed in this table for solvents/solvent blends for which the permittee does not have test data or manufacturer's formulation data.

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

^aUse 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.

^bMineral 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.

^cMedium-flash Naphtha, High-flash Naphtha, Aromatic Naphtha, Light Aromatic Naphtha, Light Aromatic Hydrocarbons, Aromatic Hydrocarbons, Light Aromatic Solvent.

17. Attachment J

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

18. Attachment K

**10 CSR 10-6.400, Restriction of Emission of Particulate Matter From Industrial Processes
 Compliance Demonstration**

$$\begin{aligned} \text{Maximum Allowable PM Emissions} &= E \text{ (lb/hr)} = 4.1(P)^{0.67} && \text{if } P \leq 30 \text{ tons/hr} \\ &= E \text{ (lb/hr)} = 55(P)^{0.11} - 40 && \text{if } P > 30 \text{ tons/hr} \end{aligned}$$

P = Process weight rate (tons/hr)
 E = Allowable emission rate limit (lb/hr)

Potential PM Emission Rate =
 MHDR(tons/hr) * Emission Factor(lb/ton) * (1 – Control Efficiency)*(1 – Transfer Efficiency)

Emission Unit	Maximum Hourly Design Rate (tons/hr)	PM Emission Factor (lb/ton)	Transfer Efficiency	Control Device Efficiency	Potential PM Emission Rate (lb/h)	Allowable PM Emission Rate (lb/h)	Potential PM Concentration (gr/scf)	Allowable PM Concentration (gr/scf)
EP#11A	0.25	1571	0.75	0.99	0.98	1.62	0.003	0.30
EP#11B	0.25	1571	0.75	0.99	0.98	1.62	0.003	0.30
EP#12A	0.25	1571	0.75	0.99	0.98	1.62	0.007	0.30
EP#1A	0.12	1328	0.75	0.99	0.39	0.98	0.002	0.30
EP#2	0.10	1308	0.75	0.99	0.33	0.88	0.002	0.30
EP#5	0.13	1378	0.75	0.99	0.44	1.03	0.001	0.30
EP#6	0.27	1440	0.90	0.99	0.39	1.71	0.003	0.30

These emission units are in compliance with 10 CSR 10-6.400, *Restriction of Emission of Particulate Matter From Industrial Processes* so long as the control devices are in use and being properly maintained.

21. **Attachment N**

40 CFR Part 63, Subpart WWWW Table 5

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:

If your operation type is . . .	And you use . . .	Your organic HAP emissions limit is ¹ . . .
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 ²	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.
7. Centrifugal casting—CR/HS ^{3,4}	A vent system that moves heated air through the mold	27 lb/ton.
8. Centrifugal casting—non-CR/HS ^{3,4}	A vent system that moves heated air through the mold	21 lb/ton.
7. Centrifugal casting—CR/HS ^{3,4}	A vent system that moves ambient air through the mold	2 lb/ton.
8. Centrifugal casting—non-CR/HS ^{3,4}	A vent system that moves ambient air through the mold	1 lb/ton.
9. SMC Manufacturing	N/A	2.4 lb/ton.

¹Organic 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 (shown in Attachment Q). You must be at or below these values based on a 12-month rolling average.

²These 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.

³Centrifugal casting operations where the mold is not vented during spinning and cure are considered to be closed molding and are not subject to any emissions limit. Centrifugal casting operations where the mold is not vented during spinning and cure, and the resin is applied to the open centrifugal casting mold using mechanical or manual open molding resin application techniques are considered to be open molding operations and the appropriate open molding emission limits apply.

⁴Centrifugal casting operations where the mold is vented during spinning and the resin is applied to the open centrifugal casting mold using mechanical or manual open molding resin application techniques, use the appropriate centrifugal casting emission limit to determine compliance. Calculate your emission factor using the appropriate centrifugal casting emission factor in Table 1 to this subpart (shown in Attachment Q), or a site specific emission factor as discussed in §63.5796.

22. **Attachment O**
 40 CFR Part 63, Subpart WWWW Table 3

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 . . .	¹ Your organic HAP emissions limit is . . .
1. open molding—corrosion-resistant and/or high strength (CR/HS)	a. mechanical resin application	113 lb/ton.
	b. filament application	171 lb/ton.
	c. manual resin application	123 lb/ton.
2. open molding—non-CR/HS	a. mechanical resin application	88 lb/ton.
	b. filament application	188 lb/ton.
	c. manual resin application	87 lb/ton.
3. open molding—tooling	a. mechanical resin application	254 lb/ton.
	b. manual resin application	157 lb/ton.
4. open molding—low-flame spread/low-smoke products	a. mechanical resin application	497 lb/ton.
	b. filament application	270 lb/ton.
	c. manual resin application	238 lb/ton.
5. open molding—shrinkage controlled resins ²	a. mechanical resin application	354 lb/ton.
	b. filament application	215 lb/ton.
	c. manual resin application	180 lb/ton.
6. open molding—gel coat ³	a. tooling gel coating	440 lb/ton.
	b. white/off white pigmented gel coating	267 lb/ton.
	c. all other pigmented gel coating	377 lb/ton.
	d. CR/HS or high performance gel coat	605 lb/ton.
	e. fire retardant gel coat	854 lb/ton.
	f. clear production gel coat	522 lb/ton.
7. centrifugal casting—CR/HS	a. resin application with the mold closed, and the mold is vented during spinning and cure	25 lb/ton. ⁴
	b. resin application with the mold closed, and the mold is not vented during spinning and cure	NA—this is considered to be a closed molding operation.
	c. resin application with the mold open, and the mold is vented during spinning and cure	25 lb/ton. ⁴
	d. resin application with the mold open, and the mold is not vented during spinning and cure	Use the appropriate open molding emission limit. ⁵

24. **Attachment O**
 40 CFR Part 63, Subpart WWWW Table 3 Continued...

8. centrifugal casting—non-CR/HS	a. resin application with the mold closed, and the mold is vented during spinning and cure	20 lb/ton. ⁴
	b. resin application with the mold closed, and mold is not vented during the spinning and cure	NA—this is considered to be a closed molding operation.
	c. resin application with the mold open, and the mold is vented during spinning and cure	20 lb/ton. ⁴
	d. resin application with the mold open, and the mold is not vented during spinning and cure	Use the appropriate open molding emission limit. ⁵
9. pultrusion ⁶	N/A	reduce total organic HAP emissions by at least 60 weight percent.
10. continuous lamination /casting	N/A	reduce total organic HAP emissions by at least 58.5 weight percent or not exceed an organic HAP emissions limit of 15.7 lbs of organic HAP per ton of neat resin plus and neat gel coat plus.

¹Organic 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.

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

³If 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.

⁴For compliance purposes, calculate your emission factor using only the appropriate centrifugal casting equation in item 2 of Table 1 to this subpart (shown in Attachment Q), or a site specific emission factor for after the mold is closed as discussed in §63.5796.

⁵Calculate your emission factor using the appropriate open molding covered cure emission factor in item 1 of Table 1 to this subpart (shown in Attachment Q), or a site specific emission factor as discussed in §63.5796.

⁶Pultrusion machines that produce parts that meet the following criteria: 1,000 or more reinforcements or the glass equivalent of 1,000 ends of 113 yield roving or more; and have a cross sectional area of 60 square inches or more are not subject to this requirement. Their requirement is the work practice of air flow management which is described in Table 4 to this subpart.

25. Attachment P
 40 CFR Part 63, Subpart WWWW Table 4

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 ¹	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 ¹	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 ¹	keep the mixer covers closed while actual mixing is occurring except when adding materials or changing covers to the mixing vessels.
9. a new or existing pultrusion operation manufacturing parts that meet the following criteria: 1,000 or more reinforcements or the glass equivalent of 1,000 ends of 113 yield roving or more; and have a cross sectional area of 60 square inches or more that is not subject to the 95 percent organic HAP emission reduction requirement	i. not allow vents from the building ventilation system, or local or portable fans to blow directly on or across the wet-out area(s),
	ii. not permit point suction of ambient air in the wet-out area(s) unless that air is directed to a control device,
	iii. use devices such as deflectors, baffles, and curtains when practical to reduce air flow velocity across the wet-out area(s),
	iv. direct any compressed air exhausts away from resin and wet-out area(s),
	v. convey resin collected from drip-off pans or other devices to reservoirs, tanks, or sumps via covered troughs, pipes, or other covered conveyance that shields the resin from the ambient air,
	vi. cover all reservoirs, tanks, sumps, or HAP-containing materials storage vessels except when they are being charged or filled, and
	vii. cover or shield from ambient air resin delivery systems to the wet-out area(s) from reservoirs, tanks, or sumps where practical.

26.

27.

28. **Attachment P (continued)**

29.

¹Containers 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.

30. Attachment Q
 40 CFR Part 63, Subpart WWWW Table 1

Table 1.1 to Subpart WWWW of Part 63--Equations to Calculate Organic HAP Emissions Factors for Specific Open Molding and Centrifugal Casting Process Streams¹
 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 is a new or existing...	And you use...	With...	Use this organic HAP Emissions Factor (EF) Equation for materials less than 33 percent organic HAP (19 percent organic HAP coat) for nonatomized gel coat	Use this organic HAP Emissions Factor (EF) Equation for materials with 33 percent or more organic HAP (19 percent organic HAP coat) for nonatomized gel coat
1. open molding operation	a. manual resin application	i. nonvapor-suppressed resin	$EF = 0.126 \times \text{HAP} \times 2000$	$EF = ((0.286 \times \text{HAP}) - 0.0529) \times 2000$
		ii. vapor-suppressed resin	$EF = 0.126 \times \text{HAP} \times 2000 \times (1 - (0.5 \times \text{VSE factor}))$	$EF = ((0.286 \times \text{HAP}) - 0.0529) \times 2000 \times (1 - (0.5 \times \text{VSE factor}))$
		iii. vacuum bagging/closed-mold curing with roll-out	$EF = 0.126 \times \text{HAP} \times 2000 \times 0.8$	$EF = ((0.286 \times \text{HAP}) - 0.0529) \times 2000 \times 0.8$
		iv. vacuum bagging/closed-mold curing without roll-out	$EF = (0.126 \times \text{HAP} \times 2000 \times 0.5)$	$EF = ((0.286 \times \text{HAP}) - 0.0529) \times 2000 \times 0.5$
	b. atomized mechanical resin application	i. nonvapor-suppressed resin	$EF = 0.169 \times \text{HAP} \times 2000$	$EF = ((0.714 \times \text{HAP}) - 0.18) \times 2000$
		ii. vapor-suppressed resin	$EF = 0.169 \times \text{HAP} \times 2000 \times (1 - (0.45 \times \text{VSE factor}))$	$EF = ((0.714 \times \text{HAP}) - 0.18) \times 2000 \times (1 - (0.45 \times \text{VSE factor}))$
		iii. vacuum bagging/closed-mold curing with roll-out	$EF = 0.169 \times \text{HAP} \times 2000 \times 0.85$	$EF = ((0.714 \times \text{HAP}) - 0.18) \times 2000 \times 0.85$
		iv. vacuum bagging/closed-mold curing without roll-out	$EF = 0.169 \times \text{HAP} \times 2000 \times 0.55$	$EF = ((0.714 \times \text{HAP}) - 0.18) \times 2000 \times 0.55$
	c. nonatomized mechanical resin application	i. nonvapor-suppressed resin	$EF = 0.107 \times \text{HAP} \times 2000$	$EF = ((0.157 \times \text{HAP}) - 0.0165) \times 2000$
		ii. vapor-suppressed resin	$EF = 0.107 \times \text{HAP} \times 2000 \times (1 - (0.45 \times \text{VSE factor}))$	$EF = ((0.157 \times \text{HAP}) - 0.0165) \times 2000 \times (1 - (0.45 \times \text{VSE factor}))$
		iii. closed-mold curing with roll-out	$EF = 0.107 \times \text{HAP} \times 2000 \times 0.85$	$EF = ((0.157 \times \text{HAP}) - 0.0165) \times 2000 \times 0.85$
		iv. vacuum bagging/closed-mold curing without roll-out	$EF = 0.107 \times \text{HAP} \times 2000 \times 0.55$	$EF = ((0.157 \times \text{HAP}) - 0.0165) \times 2000 \times 0.55$
	d. atomized mechanical resin application with robotic or autogated spray control	nonvapor-suppressed resin	$EF = 0.169 \times \text{HAP} \times 2000 \times 0.77$	$EF = 0.77 \times ((0.714 \times \text{HAP}) - 0.18) \times 2000$
	e. filament application ⁶	i. nonvapor-suppressed resin	$EF = 0.184 \times \text{HAP} \times 2000$	$EF = ((0.2746 \times \text{HAP}) - 0.0298) \times 2000$
		ii. vapor-suppressed resin	$EF = 0.12 \times \text{HAP} \times 2000$	$EF = ((0.2746 \times \text{HAP}) - 0.0298) \times 2000 \times 0.65$
	f. atomized spray gel coat application	nonvapor-suppressed gel coat	$EF = 0.445 \times \text{HAP} \times 2000$	$EF = ((1.03646 \times \text{HAP}) - 0.195) \times 2000$

31. Attachment Q

40 CFR Part 63, Subpart WWWW Table 1 Continued...

g. nonatomized spray gel coat application	nonvapor-suppressed gel coat	$EF = 0.185 \times \text{HAP} \times 2000$	$EF = ((0.4506 \times \text{HAP}) - 0.0505) \times 2000$
h. atomized spray gel coat application using robotic or automated spray	nonvapor-suppressed gel coat	$EF = 0.445 \times \text{HAP} \times 2000 \times 0.73$	$EF = ((1.03646 \times \text{HAP}) - 0.195) \times 2000 \times 0.73$
2. centrifugal casting operations 78	a. heated air blown through molds	$EF = 0.558 \times (\text{HAP}) \times 2000$	$EF = 0.558 \times (\text{HAP}) \times 2000$
	b. vented molds, but air vented through the molds is not heated	$EF = 0.026 \times (\text{HAP}) \times 2000$	$EF = 0.026 \times (\text{HAP}) \times 2000$

Footnotes to Table 1

- 1 The equations in this table are intended for use in calculating emission factors to demonstrate compliance with the emission limits in subpart WWWW. These equations may 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.
- 2 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.
- 3 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.
- 4 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.
- 5 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.
- 6 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.
- 7 These equations are for centrifugal casting operations where the mold is vented during spinning. Centrifugal casting operations where the mold is completely sealed after resin injection are considered to be closed molding operations.
- 8 If a centrifugal casting operation uses mechanical or manual resin application techniques to apply resin to an open centrifugal casting mold, use the appropriate open molding equation with covered cure and no rollout to determine an emission factor for operations prior to the closing of the centrifugal casting mold. If the closed centrifugal casting mold is vented during spinning, use the appropriate centrifugal casting equation to calculate an emission factor for the portion of the process where spinning and cure occur. If a centrifugal casting operation uses mechanical or manual resin application techniques to apply resin to an open centrifugal casting mold, and the mold is then closed and is not vented, treat the entire operation as open molding with covered cure and no rollout to determine emission factors.

32. **Attachment R**
 40 CFR Part 63, Subpart WWWW Table 7

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 ^{1,2}	a. CR/HS mechanical	³ 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	³ 45.0
	b. non-CR/HS manual	45.0
	c. non-CR/HS centrifugal casting ^{1,2}	45.0
5. non-CR/HS resins, nonatomized mechanical	a. non-CR/HS manual	38.5
	b. non-CR/HS centrifugal casting ^{1,2}	38.5
6. non-CR/HS resins, centrifugal casting ^{1,2}	non-CR/HS manual	37.5
7. tooling resins, nonatomized mechanical	tooling manual	91.4
8. tooling resins, manual	tooling atomized mechanical	45.9

¹If 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.

²If 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.

³Nonatomized mechanical application must be used.

33. **Attachment S**
 40 CFR Part 63, Subpart WWWW Table 13

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.

34. **Attachment T**
 40 CFR Part 63, Subpart WWWW Table 14

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. 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)).

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 June 8, 2009;
- 2) 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.

35.

None.

36.

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

40 CFR Part 63, Subpart VVVV - *National Emission Standard for Hazardous Air Pollutants for Boat Manufacturing* is not applicable since the facility has stopped manufacturing boats.

Construction Permit Revisions

The following revisions were made to construction permits for this installation:

None.

New Source Performance Standards (NSPS) Applicability

40 CFR Part 60, Subpart MM - *Standards of Performance for Automobile and Light Duty Truck Surface Coating Operations* is not applicable because the facility is not an assembly plant.

40 CFR Part 60, Subpart TTT—*Standards of Performance for Industrial Surface Coating: Surface Coating of Plastic Parts for Business Machines* is not applicable because the facility does not surface coat plastic parts for business machines. If they should in the future they would need to adhere to this subpart.

Maximum Available Control Technology (MACT) Applicability

40 CFR Part 63, Subpart MMMM—*National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products* is applicable. This MACT has been included in the operating permit. Predominant Activity is calculated on a rolling 12-month basis. If the average predominant activity at the facility for the last 12 months is less than 90% then the facility must comply with both subparts (MMMM and PPPP).

40 CFR Part 63, Subpart PPPP—*National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products* is applicable. This MACT has been included in the operating permit. Predominant Activity is calculated on a rolling 12-month basis. If the average predominant activity at the facility for the last 12 months is less than 90% then the facility must comply with both subparts (MMMM and PPPP).

40 CFR Part 63, Subpart WWWW—*National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production* is applicable. This MACT has been included in the operating permit.

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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