



**STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS  
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR RESOURCES**

**OPERATING PERMIT**

*Portola Tech International*

**PERMIT NO. RI-42-10**

(Renewal date: October 22, 2010)

(Expiration date: October 22, 2015)

**Pursuant to the provisions of Air Pollution Control Regulation No. 29, this operating permit is issued to:**

Portola Tech International  
35 Martin Street  
Cumberland, RI 02864

**This permit shall be effective from the date of its issuance. All terms and conditions of the permit are enforceable by USEPA and citizens under the federal Clean Air Act, 42 U.S.C. 7401, et seq., unless specifically designated as not federally enforceable.**

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**Douglas L. McVay, Acting Chief  
Office of Air Resource**

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**Date of issuance: 10/22/2010**

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## SECTION I. SOURCE SPECIFIC CONDITIONS

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### A. Requirements for Emission Units P002, P004, P005

The following requirements are applicable to:

- Emission unit P002, which is a chain-on-edge ultra-violet (UV) spray booth. Products coated in P002 are cured in one of two UV ovens (P028 or P029).
- Emission unit P004, which is an ultra-violet (UV) topcoat spray booth. Products coated in P004 are cured in UV oven P006.
- Emission unit P005, which is an ultra-violet (UV) basecoat spray booth. Products coated in P005 are cured in the UV oven P003.
- All of the items that are used for surface coating of plastic parts and products including all coating operations as defined in 40 CFR 63.4581, all storage containers and mixing vessels in which coatings, thinners and/or other additives, and cleaning materials are stored or mixed, all manual and automated equipment and containers used for conveying coatings, thinners and/or other additives, and cleaning materials, all storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation. [40 CFR 63.4482(b)]

#### 1. **Emission Limitations**

- a. The VOC content of each coating used on P002, P004 and/or P005 shall not exceed 3.5 pounds of VOC per gallon of coating, minus water, as applied. [Approval Nos. 2087 – 2089(A)(1)(a)]
- b. The permittee shall demonstrate that the organic Hazardous Air Pollutant (HAP) content of each coating, thinner and/or other additive, and cleaning material used on P002, P004 and/or P005 is less than or equal to 0.16 lb organic HAP emitted per lb coating solids used during each 12-month compliance period. [Approval Nos. 2087 – 2089(A)(2)(a), 40 CFR 64.4490(b)(1), 40 CFR 63.4491(b), 40 CFR 63.4500(a)(1)]

#### 2. **Operating Requirements**

- a. High Volume Low Pressure (HVLV) spray guns shall be used for surface coating operations in each spray booth. [Approval Nos. 2087 – 2089(B)(1)]
- b. Each spray booth shall be equipped, at all times, with overspray filter media that treats all exhausted air prior to discharge to the atmosphere. [Approval Nos. 2087 – 2089(B)(2)]

- c. A gauge shall be installed and maintained to indicate the static pressure differential across the overspray filter media. [Approval Nos. 2087 – 2089(B)(3)]
- d. All materials containing VOC shall be stored in containers that are closed at all times except when material is being added or removed. [Approval Nos. 2087 – 2089(B)(4)]

### **3. Compliance Determination**

- a. Compliance with the coating emission limitations contained in Condition I.A.1.a of this permit shall be demonstrated in accordance with 40 CFR 60, Appendix A, Methods 24, 24A as amended or any other USEPA approved method which has been accepted by the Director. A one hour bake time shall be used for Methods 24 and 24 A, which apply to multi-component coatings. [29.6.3(b)]
- b. VOC Content of Coatings As-Supplied
  - (1) For each coating that is not formulated on-site by thinning or mixing with another material (“as-supplied”), the VOC content of the coating shall be determined by documentation furnished by the coating supplier or an outside laboratory that provides the VOC content, water content, exempt compounds content, solids content and density of each coating used. [Approval Nos. 2087 – 2089(C)(1)(a)]
  - (2) VOC, water, exempt compounds and solids content, by weight, of as-supplied coatings shall be determined with USEPA Method 24 or an alternative procedure approved by USEPA and the Office of Air Resources. Sampling procedures shall follow the guidelines presented in “Standard Procedures for Collection of Coating and Ink Samples for VOC Content Analysis by Reference Method 24 and Reference Method 24A”, EPA-340/1-91-010. [Approval Nos. 2087 – 2089(C)(1)(b)]
  - (3) If the permittee uses a coating that does not release VOC reaction by-products during the cure; for example, if all VOC is solvent; the permittee may request permission to use batch formulation information to determination VOC content. If the VOC content of a coating determined by an USEPA Method 24 test is greater than that indicated by the formulation data, the USEPA Method 24 test shall govern. [Approval Nos. 2087 – 2089(C)(1)(c)]

- c. VOC Content of Coatings Formulated On-site
- (1) For each coating that is formulated on-site by thinning or mixing with another material, the VOC content of the coating shall be determined by:
    - (a) Maintaining batch formulation information documenting the VOC content of each coating; or, [Approval Nos. 2087 – 2089(C)(2)(a)(1)]
    - (b) Using USEPA Method 24 or an alternative procedure approved by USEPA and the Office of Air Resources. Sampling procedures shall follow the guidelines presented in “Standard Procedures for Collection of Coating and Ink Samples for VOC Content Analysis by Reference Method 24 and Reference Method 24A,” EPA-340/1-91-010. [Approval Nos. 2087 – 2089(C)(2)(a)(2)]
  - (2) If the VOC content of a coating determined by an USEPA Method 24 test is greater than that indicated by the facility’s formulation data, the USEPA Method 24 test shall govern. [Approval Nos. 2087 – 2089(C)(2)(B)]
- d. To demonstrate continuous compliance the organic HAP emission rate for each compliance period, determined according to the requirements specified in Conditions I.A.3.d(1-7) of this permit must be less than or equal to the emission limitation specified in Condition I.A.1.b of this permit. A compliance period consists of 12 months. Each month is the end of a compliance period consisting of that month and the preceding 11 months. The permittee shall complete the calculations in Conditions I.A.3.d(1-7) on a monthly basis using the data from the previous 12 months of operation. [Approval Nos. 2087 – 2089(C)(3), 40 CFR 63.4552(a)]
- (1) *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 following requirements. [Approval Nos. 2087 – 2089(C)(3)(a), 40 CFR 63.4551(a), 40 CFR 63.4541(a)]
    - (a) *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 following procedures when performing a Method 311 test: [Approval Nos. 2087 – 2089(C)(3)(a)(1), 40 CFR 63.4541(a)(1)]

- (i) 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, you do not have to count it. Express the mass fraction of each organic HAP you count as a value truncated to four places after the decimal point (*e.g.*, 0.3791). [Approval Nos. 2087 – 2089(C)(3)(a)(1)(a), 40 CFR 63.4541(a)(1)(i)]
  - (ii) 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). [Approval Nos. 2087 – 2089(C)(3)(a)(1)(b), 40 CFR 63.4541(a)(1)(ii)]
- (b) *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, you may use the alternative method contained in Appendix A of this permit, rather than Method 24. You may use the volatile fraction that is emitted, as measured by the alternative method in Appendix A of this permit, as a substitute for the mass fraction of organic HAP. [Approval Nos. 2087 – 2089(C)(3)(a)(2), 40 CFR 63.4541(a)(2)]
- (c) *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 40 CFR 63.7(f) to submit an alternative test method for approval. [Approval Nos. 2087 – 2089(C)(3)(a)(3), 40 CFR 63.4541(a)(3)]
- (d) *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 Conditions I.A.3.d(1)(a)-(c) of this permit, 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, you do 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, you 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 specified in Conditions I.A.3.d(1)(a)-(c) of this permit, then the test method results will take precedence unless, after consultation you demonstrate to the satisfaction of the Office of Air Resources and USEPA that the formulation data are correct. [Approval Nos. 2087 – 2089(C)(3)(a)(4), 40 CFR 63.4541(a)(4)]

- (e) *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 Appendix B or C of this permit. If the permittee uses the tables, the permittee must use the values in Appendix B for all solvent blends that match Appendix B entries according to the instructions for Appendix B, and the permittee may use Appendix C only if the solvent blends in the materials do not match any of the solvent blends in appendix B and you know 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 Appendix B or C of this permit, the Method 311 results will take precedence unless, after consultation you demonstrate to the satisfaction of the Office of Air Resources and USEPA that the formulation data are correct. [Approval Nos. 2087 – 2089(C)(3)(a)(5), 40 CFR 63.4541(a)(5)]

- (2) *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 paragraphs (2)(a-c) of this section. [Approval Nos. 2087 – 2089(C)(3)(b), 40 CFR 63.4541(b), 40 CFR 63.4551(b)]

- (a) *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, you may use the alternative method contained in Appendix A of this permit, rather than Method 24, to determine the mass fraction of coating solids. [Approval Nos. 2087 – 2089(C)(3)(b)(1), 40 CFR 63.4541(b)(1)]
  - (b) *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 40 CFR 63.7(f) to submit an alternative test method for approval. [Approval Nos. 2087 – 2089(C)(3)(b)(2), 40 CFR 63.4541(b)(2)]
  - (c) *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 you demonstrate to the satisfaction of the Office of Air Resources and USEPA that the formulation data are correct. [Approval Nos. 2087 – 2089(C)(3)(b)(3), 40 CFR 63.4541(b)(3)]
- (3) *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 40 CFR 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 Director that the formulation data are correct. If the permittee purchases materials or monitor consumption by weight instead of volume, you do 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 this section. [Approval Nos. 2087 – 2089(C)(3)(c), 40 CFR 63.4551(c)]

- (4) *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 monitor consumption by weight instead of volume, you do 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 this section. [Approval Nos. 2087 – 2089(C)(3)(d), 40 CFR 63.4551(d)]
- (5) *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 this section. [Approval Nos. 2087 – 2089(C)(3)(e), 40 CFR 63.4551(e)]

$$H_e = A + B + C - R_w \quad (\text{Eq. 1})$$

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 this section.
- B = Total mass of organic HAP in the thinners and/or other additives used during the month, kg, as calculated in Equation 1B of this section.
- C = Total mass of organic HAP in the cleaning materials used during the month, kg, as calculated in Equation 1C of this section.
- $R_w$  = 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 paragraph (5)(d) of this section. (You may assign a value of zero to  $R_w$  if you do not wish to use this allowance.)

- (a) Calculate the kg organic HAP in the coatings used during the month using Equation 1A of this section: [Approval Nos. 2087 – 2089(C)(3)(e)(1), 40 CFR 63.4551(e)(1)]

$$A = \sum_{i=1}^m (Vol_{c,i}) (D_{c,i}) (W_{c,i}) \quad (Eq. 1A)$$

Where:

- A = Total mass of organic HAP in the coatings used during the month, kg.
- Vol<sub>c,i</sub> = Total volume of coating, i, used during the month, liters.
- D<sub>c,i</sub> = Density of coating, i, kg coating per liter coating.
- W<sub>c,i</sub> = Mass fraction of organic HAP in coating, i, kg organic HAP per kg coating. For reactive adhesives as defined in 40 CFR 63.4581, use the mass fraction of organic HAP that is emitted as determined using the method in Appendix A to this permit.
- m = Number of different coatings used during the month.

- (b) Calculate the kg of organic HAP in the thinners and/or other additives used during the month using Equation 1B of this section: [Approval Nos. 2087 – 2089(C)(3)(e)(2), 40 CFR 63.4551(e)(2)]

$$B = \sum_{j=1}^n (Vol_{t,j}) (D_{t,j}) (W_{t,j}) \quad (Eq. 1B)$$

Where:

- B = Total mass of organic HAP in the thinners and/or other additives used during the month, kg.
- Vol<sub>t,j</sub> = Total volume of thinner and/or other additive, j, used during the month, liters.
- D<sub>t,j</sub> = Density of thinner and/or other additive, j, kg per liter.
- W<sub>t,j</sub> = Mass fraction of organic HAP in thinner and/or other additive, j, kg organic HAP per kg thinner and/or other additive. For reactive adhesives as defined in 40 CFR 63.4581, use the mass fraction of organic HAP that is emitted as determined using the method in Appendix A to this permit.

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

(c) Calculate the kg organic HAP in the cleaning materials used during the month using Equation 1C of this section: [Approval Nos. 2087 – 2089(C)(3)(e)(3), 40 CFR 63.4551(e)(3)]

$$C = \sum_{k=1}^p (Vol_{s,k})(D_{s,k})(W_{s,k}) \quad (Eq. 1C)$$

Where:

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

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

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

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

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

(d) If you choose 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 this section, then you must determine the mass according to paragraphs (5)(d)(i-iv) of this section. [Approval Nos. 2087 – 2089(C)(3)(e)(4), 40 CFR 63.4551(e)(4)]

(i) The permittee may only include waste materials in the determination that are generated by coating operations in the ultraviolet coating lines 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 shall not include organic HAP contained in wastewater. [Approval Nos. 2087 – 2089(C)(3)(e)(4)(a), 40 CFR 63.4551(e)(4)(i)]

(ii) The permittee shall 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 your determination any waste materials sent to a TSDF during a month if you have already included them in the amount collected and stored during that month or a previous month. [Approval Nos. 2087 – 2089(C)(3)(e)(4)(b), 40 CFR 63.4551(e)(4)(ii)]

- (iii) Determine the total mass of organic HAP contained in the waste materials specified in Condition I.A.3.d(5)(d)(iii) of this permit. [Approval Nos. 2087 – 2089(C)(3)(e)(4)(c) 40 CFR 63.4551(e)(4)(iii)]
  - (iv) The permittee shall document the methodology you use to determine the amount of waste materials and the total mass of organic HAP they contain, as required in Condition I.A.4.a(12) of this permit. 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. [Approval Nos. 2087 – 2089(C)(3)(e)(4)(d) 40 CFR 63.4551(e)(4)(iv)]
- (6) *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 this section: [Approval Nos. 2087 – 2089(C)(3)(f), 40 CFR 63.4551(f)]

$$M_{st} = \sum_{i=1}^m (Vol_{c,i}) (D_{c,i}) (M_{s,i}) \quad (Eq. 2)$$

Where:

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

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

$D_{c,i}$  = Density of coating, i, kgs per liter coating, determined according to 40 CFR 63.4551(c).

$M_{s,i}$  = Mass fraction of coating solids for coating, i, kgs solids per kg coating, determined according to 40 CFR 63.4541(b).

$m$  = Number of coatings used during the month.

- (7) *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 this section: [Approval Nos. 2087 – 2089(C)(3)(g), 40 CFR 63.4551(g)]

$$H_{yr} = \frac{\sum_{y=1}^n H_e}{\sum_{y=1}^n M_{st}} \quad (\text{Eq. 3})$$

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 this section.

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

$y$  = 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).

- e. If the organic HAP emission rate for any 12-month compliance period exceeded the applicable emission limit specified in I.A.1.b of this permit, this is a deviation from the emission limitation for that compliance period and must be reported as specified in Condition I.A.5.c(6) of this permit. [Approval Nos. 2087 – 2089(C)(4), 40 CFR 63.4552(b)]
- f. As part of each semiannual compliance report required by Condition I.A.5.c of this permit, the permittee shall identify the coating operation(s) for which the permittee used the emission rate without add-on controls option. If there were no deviations from the emission limitations, you must submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the reporting period because the organic HAP emission rate for each compliance period was less than or equal to the applicable emission limit specified in I.A.1.b of this permit, determined according to Conditions I.A.3.d(1-7) of this permit. [Approval Nos. 2087 – 2089(C)(5), 40 CFR 63.4552(c), 40 CFR 63.4552(d)]

#### 4. Recordkeeping Requirements

- a. The permittee shall collect, record and maintain the following information each month for P002, P004 and P005:
- (1) The name and identification number and amount used of each coating, as applied, on emission units P002, P004 and P005. [29.6.3(b), Approval Nos. 2087 – 2089(D)(1)(a)]
  - (2) The name, identification number and amount of each material containing VOC and/or HAP used at the facility. [29.6.3(b), Approval Nos. 2087 – 2089(D)(1)(b)]
  - (3) The mass VOC and HAP per volume (excluding water and exempt compounds), as applied for each coating used; [29.6.3(b), Approval Nos. 2087 – 2089(D)(1)(c)]
  - (4) A Material Safety Data Sheet (MSDS) showing the VOC and Hap content of each material used at the facility. [29.6.3(b), Approval Nos. 2087 – 2089(D)(1)(d)]
  - (5) The type and amount of solvent used as thinners and in cleaning operations at the facility; [29.6.3(b), Approval Nos. 2087 – 2089(D)(1)(e)]
  - (6) A copy of each notification and report that is submitted to comply with 40 CFR 63 Subpart PPPP, and the documentation supporting each notification and report. [Approval Nos. 2087 – 2089(D)(1)(f), 40 CFR 63.4530(a)]
  - (7) 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 shall keep a copy of the complete test report. If the permittee used information provided by the manufacturer or supplier of the material that was based on testing, the permittee shall keep the summary sheet of results provided by the manufacturer or supplier. The permittee is not required to obtain the test report or other supporting documentation from the manufacturer or supplier. [Approval Nos. 2087 – 2089(D)(1)(g), 40 CFR 63.4530(b)]

- (8) A record of the coating operations on which you used each compliance option and the time periods (beginning and ending dates and times) for each option you used. [Approval Nos. 2087 – 2089(D)(1)(h), 40 CFR 63.4530(c)(1)]
- (9) 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 I.A.3.d(5) of this permit and the calculation of each 12-month organic HAP emission rate using Equation 3 of Condition I.A.3.d(5) of this permit. [Approval Nos. 2087 – 2089(D)(1)(i), 40 CFR 63.4530(c)(2)]
- (10) A record of the name and mass of each coating, thinner and/or other additive, and cleaning material used during each compliance period. The permittee may maintain purchase records for each material used rather than a record of the mass used. [Approval Nos. 2087 – 2089(D)(1)(j), 40 CFR 63.4530(d)]
- (11) 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. [Approval Nos. 2087 – 2089(D)(1)(k), 40 CFR 63.4530(e)]
- (12) A record of the mass fraction of coating solids for each coating used during each compliance period. [Approval Nos. 2087 – 2089(D)(1)(l), 40 CFR 63.4530(f)]
- (13) The permittee shall keep records of the date, time, and duration of each deviation. [Approval Nos. 2087 – 2089(D)(n), 40 CFR 63.4530(h)]
- (14) If the permittee used an allowance in Equation 1 of this permit for organic HAP contained in waste materials sent to or designated for shipment to a treatment, storage, and disposal facility (TSDF) according to Condition I.A.3.d(5)(d) of this permit, the permittee shall keep records of the following information: [Approval Nos. 2087 – 2089(D)(1)(m) 40 CFR 63.4530(g)]
  - (a) The name and address of each TSDF to which you sent waste materials for which you use an allowance in Equation 1 of this permit, a statement of which subparts under 40 CFR Parts 262, 264, 265 and 266 apply to the facility; and the date of each shipment. [Approval Nos. 2087 – 2089(D)(1)(m)(1), 40 CFR 63.4530(g)(1)]

- (b) Identification of the coating operations producing waste materials included in each shipment and the month or months in which you used the allowance for these materials in Equation 1 of this permit. [Approval Nos. 2087 – 2089(D)(1)(m)(2), 40 CFR 63.4530(g)(2)]
- (c) The methodology used in accordance with Condition I.A.3.d(5)(d) of the permit 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 manifests for each shipment. [Approval Nos. 2087 – 2089(D)(1)(m)(3), 40 CFR 63.4530(g)(3)]

## 5. Reporting Requirements

- a. The permittee shall notify the Office of Air Resources of any record showing noncompliance with section I.A. of this permit or any other air pollution control rule or regulation applicable to emission units P002, P004 and P005 by sending a copy of the record to the Office of Air Resources within 30 days following the occurrence. [29.6.3(b)]
- b. The permittee shall submit semiannual compliance reports to the Office of Air Resources and USEPA. [40 CFR 63.4520(a)(1)(i), Approval Nos. 2087 – 2089(D)(7)]
  - (1) Each compliance report must cover the applicable semiannual reporting period from January 1 through June 30 or July 1 through December 31. [40 CFR 63.4520(a)(1)(ii), 40 CFR 63.4520(a)(1)(iv), Approval Nos. 2087 – 2089(D)(7)(a)]
  - (2) Each compliance report must be postmarked or delivered no later than 45 calendar days after the end of the semiannual reporting period. [40 CFR 63.4520(a)(1)(iii), 29.6.4(b)(1), 40 CFR 63.4520(a)(1)(iv), 40 CFR 63.4520(a)(2), Approval Nos. 2087 – 2089(D)(7)(b)]
- c. The semiannual compliance report must include the following information: [40 CFR 63.4520(a)(3), Approval Nos. 2087 – 2089(D)(8)]
  - (1) Company name and address. [40 CFR 63.4520(a)(3)(i), Approval Nos. 2087 – 2089(D)(8)(a)]

- (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. [40 CFR 63.4520(a)(3)(ii), Approval Nos. 2087 – 2089(D)(8)(b)]
- (3) 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 6 months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation. [40 CFR 63.4520(a)(3)(iii), Approval Nos. 2087 – 2089(D)(8)(c)]
- (4) Identification of the compliance option or options specified in 40 CFR 63.4491 that was used on each coating operation during the reporting period. If you switched between compliance options during the reporting period, you must report the beginning and ending dates for each option you used. [40 CFR 63.4520(a)(3)(iv), Approval Nos. 2087 – 2089(D)(8)(d)]
- (5) If there were no deviations from the emission limitations specified in Condition I.A.1.b of this permit then the semiannual compliance report must include a statement that there were no deviations from the emission limitations during the reporting period. [40 CFR 63.4520(a)(4), Approval Nos. 2087 – 2089(D)(8)(e)]
- (6) If there was a deviation from the applicable organic HAP content requirements specified in Condition I.A.1.b of this permit, the semiannual compliance report must contain the following information: [40 CFR 63.4520(a)(6), Approval Nos. 2087 – 2089(D)(8)(f)]
  - (a) The beginning and ending dates of each compliance period during which the 12-month organic HPA emission rate exceeded the applicable emission limit in Condition I.A.1.b of this permit [40 CFR 63.4520(a)(6)(i), Approval Nos. 2087 – 2089(D)(8)(f)(1)]
  - (b) The calculations used to determine the 12-month organic HAP emission rate for the compliance period in which the deviation occurred. The permittee shall submit the calculations for Equations 1, 1A through 1C, 2 and 3 specified in Section I.A.3 of this permit. The permittee need not submit background data supporting these calculations (e.g. information provided by materials

suppliers or manufacturers, or test reports). [40 CFR 63.4520(a)(6)(ii), Approval Nos. 2087 – 2089(D)(8)(f)(2)]

- (c) A statement of the cause of each deviation. [40 CFR 63.4520(a)(6)(iii), Approval Nos. 2087 – 2089(D)(8)(f)(3)]

## **6. Other Requirements**

- a. The permittee must comply with the requirements of the General Provisions in 40 CFR Part 63, subpart A as specified in Appendix D of this permit. [40 CFR 63.4501, 40 CFR 63.4500(b), 40 CFR 63.4531(a)-(c)]
- b. To the extent consistent with the requirements of Section I.A of this permit and applicable federal and state laws, the facility shall be operated in accordance with the representation of the facility in the preconstruction permit application prepared by Woodard & Curran dated 28 September 2009. [Approval Nos. 2087 – 2089(E)(1)]
- c. At all times, including periods of startup, shutdown and malfunction, the permittee shall, to the extent practicable, maintain and operate the facility in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Office of Air Resources, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Approval Nos. 2087 – 2089(E)(3)]
- d. The permittee is subject to the requirements of 40 CFR 63.1- 15, Subpart A, “General Provisions” and 40 CFR 63, Subpart PPPP, National Emission Standards for Hazardous Air Pollutants: Surface Coating of Plastic Parts and Products. Compliance with all applicable provisions therein is required, unless otherwise stated in this permit. [Approval Nos. 2087 – 2089(E)(4)]

**B. Facility Requirements**

**1. Emissions Limitations**

- a. The total quantity of volatile organic compound emissions discharged to the atmosphere from all operations, for the entire facility, shall not exceed 4,000 pounds per calendar month, based upon a 12-month rolling average. [Approval Nos. 2087 – 2089(A)(1)(b)]
- b. The total quantity of HAP emissions discharged to the atmosphere from all operations, for the entire facility, shall not exceed 1,500 pounds of any one HAP or 4,000 pounds of any combination of HAPs per calendar month, based upon a 12-month rolling average. [Approval Nos. 2087 – 2089(A)(2)(b)]
- c. The total quantity of emissions discharged to the atmosphere from the entire facility for any listed toxic air contaminant shall not exceed the minimum quantity for that contaminant as specified in Appendix A of Air Pollution Control Regulation No. 9. Emissions from activities exempted from the provisions of APC Regulation No. 22 in subsection 22.2.2 are not included in this limitation. [Approval Nos. 2087 – 2089(A)(2)(c)]

**2. Recordkeeping Requirements**

- a. The permittee shall, on a monthly basis, no later than 10 days after the first of the month, determine the total quantity of VOC discharged to the atmosphere from all operations for the entire facility. Monthly and 12-month rolling averages shall be calculated. The permittee shall keep records of this determination and provide such records to the Office of Air Resources upon request. [Approval Nos. 2087 – 2089(D)(2)]
- b. The permittee shall, on a monthly basis, no later than 10 days after the first of the month, determine the total quantity of HAPs discharged to the atmosphere from all operations, for the entire facility. Monthly and 12-month rolling averages shall be calculated. The permittee shall keep records of this determination and provide such records to the Office of Air Resources upon request. [Approval Nos. 2087 – 2089(D)(4)]

**3. Reporting Requirements**

- a. The permittee shall notify the Office of Air Resources in writing, within 15 days of the determination, whenever the total quantity of VOCs discharged to the atmosphere from all operations, for the entire facility exceeds 4,000 pounds per calendar month, based upon a 12-month rolling average. [Approval Nos. 2087 – 2089(D)(3)]

- b. The permittee shall notify the Office of Air Resources in writing, within 15 days of the determination, whenever the total quantity of HAPs discharged to the atmosphere from all operations, for the entire facility exceeds 1,500 pounds of any single HAP or 4,000 pounds of any combination of HAPs per calendar month, based upon a 12-month rolling average. [Approval Nos. 2087 – 2089(D)(5)]

## SECTION II. GENERAL CONDITIONS

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**A. Annual Emissions Fee Payment**

The permittee shall pay an annual emissions fee as established in Air Pollution Control Regulation No. 28 "Operating Permit Fees". [29.6.8(d)]

**B. Permit Renewal and Expiration**

This permit is issued for a fixed term of 5 years. The permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least 12 months prior to the date of permit expiration. Upon receipt of a complete and timely application for renewal, this source may continue to operate subject to final action by the Office of Air Resources on the renewal application. In such an event, the permit shield in Condition II.Y of this permit shall extend beyond the original permit term until renewal. This protection shall cease to apply if, subsequent to a completeness determination, the applicant fails to submit by the deadline specified in writing by the Office of Air Resources any additional information identified as being needed to process the application. The application for renewal shall include the current permit number, description of permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. [29.6.8(a), 29.4.2(c), 29.4.6]

**C. Transfer of Ownership or Operation**

This permit is nontransferable by the permittee. Future owners and operators must obtain a new operating permit from the Office of Air Resources. A change in ownership or operational control of this source is treated as an administrative permit amendment if no other change in this permit is necessary and provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the Office of Air Resources. [29.10.1(a)(4)]

**D. Property Rights**

This permit does not convey any property rights of any sort, or any exclusive privilege. [29.6.8(c)(4)]

**E. Submissions**

1. Reports, test data, monitoring data, notifications, and requests for renewal shall be submitted to:

RIDEM - Office Air Resources  
Compliance Assurance Section  
235 Promenade St. Room 230  
Providence, RI 02908

2. Any records, compliance certifications and monitoring data required by the provisions of this permit to be submitted to USEPA shall be sent to:

USEPA Region I  
Office of Environmental Stewardship  
Director, Air Compliance Program  
Attn: Air Compliance Clerk  
5 Post Office Square Suite 100  
Boston, MA 02109-3912

3. Any document submitted shall be certified as being true, accurate, and complete by a responsible official. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the certification are true, accurate, and complete. [29.6.8(e)]

**F. Inspection and Entry**

1. Employees of the Office of Air Resources and its authorized representatives shall be allowed to enter this facility at all reasonable times for the purpose of:
  - a. having access to and copying at reasonable times any records that must be kept under the conditions of this permit;
  - b. inspecting at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
  - c. sampling or monitoring, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.[RIGL 23-23-5(7), 29.6.8(f)(1-4), Approval Nos. 2087 – 2089(E)(2)]

Nothing in this condition shall limit the ability of USEPA to inspect or enter the premises of the permittee under Section 114 or other provisions of the Clean Air Act.

**G. Compliance**

1. The permittee must comply with all conditions of this permit. Any noncompliance with a federally enforceable permit condition constitutes a violation of the Clean Air Act and is grounds for enforcement action, for permit termination, revocation and reissuance or modification, or for denial of a permit renewal application. Any noncompliance with a permit condition designated as state only enforceable constitutes a violation of state rules only and is grounds for enforcement action, for permit termination, revocation and reissuance or modification, or for denial of a permit renewal application. [29.6.8(c)(1)]
2. For each unit at the facility for which an applicable requirement becomes effective during the permit term, the permittee shall meet such requirements on a timely basis unless a more detailed schedule is expressly required by the applicable requirement. [29.6.5(a)]
3. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [29.6.8(c)(2)]

#### **H. Excess Emissions Due to an Emergency**

As the term is used in this condition an "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of this source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes this source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error. [29.6.11(b)]

Technology-based emission limits are those established on the basis of emission reductions achievable with various control measures or process changes (e.g., a new source performance standard) rather than those established to attain a health based air quality standard.

The permittee may seek to establish that noncompliance with a technology-based emission limitation under this permit was due to an emergency. To do so, the permittee shall demonstrate the affirmative defense of emergency through properly signed, contemporaneous operating logs, or other relevant evidence that: [29.6.11(a) & 29.6.11(c)]

1. an emergency occurred and that the permittee can identify the cause(s) of the emergency; [29.6.11(c)(1)]
2. the permitted facility was at the time being properly operated; [29.6.11(c)(2)]
3. during the period of the emergency, the permittee took all reasonable steps to

minimize levels of emissions that exceeded the emissions standards, or other requirements in this permit; and [29.6.11(c)(3)]

4. the permittee submitted notice of the emergency to the Office of Air Resources within 2 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 corrective actions taken. This notice fulfills the requirements of Condition II.AA.3 of this permit. [29.6.11(c)(4)]

The permittee shall have the burden of proof in seeking to establish the occurrence of an emergency. [29.6.11(d)]

**I. Duty to Provide Information**

The permittee shall furnish to the Office of Air Resources, within a reasonable time, any pertinent information that the Office of Air Resources may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Office of Air Resources copies of records that the permittee is required to keep by this permit, or for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. [29.6.8(c)(5)]

**J. Duty to Supplement**

The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the Office of Air Resources. The permittee shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit. [29.5.4]

**K. Reopening for Cause**

The Office of Air Resources will reopen and revise this permit as necessary to remedy deficiencies in the following circumstances:

1. Additional requirements under the Clean Air Act become applicable to a major source 3 or more years prior to the expiration date of this permit. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the expiration date of this permit, unless this permit or any of its terms and conditions has been extended. [29.6.13(a)]

2. The Office of Air Resources or the Administrator determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit. [29.6.13(c)]
3. The Office of Air Resources or the Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [29.6.13(d)]

Reopenings shall not be initiated before a notice of intent to reopen is provided to the permittee by the Office of Air Resources at least 30 days in advance of the date that this permit is to be reopened, except that the Office of Air Resources may provide a shorter time period (but not less than 5 days) in the case of an emergency. [29.9.5(b)]

Proceedings to reopen and issue this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable. [29.9.5(a)]

All permit conditions remain in effect until such time as the Office of Air Resources takes final action. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [§70.6(a)(6)(iii)]

**L. Severability Clause**

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [29.6.8(b)]

**M. Off-Permit Changes**

1. The permittee is allowed to make certain changes that are not addressed or prohibited by this permit without a permit revision, provided that the following conditions are met: [29.11.2(a)]
  - a. Each such change shall not violate any term or condition of this permit. [29.11.2(b)]
  - b. Each change shall comply with all applicable requirements. [29.11.2(b)]
  - c. Changes under this provision may not include changes or activities subject to any requirement under Title IV or modifications under any provision of Title I of the Clean Air Act. [29.11.2(a)]

- d. Before the permit change is made, the permittee must provide contemporaneous written notice to the Office of Air Resources and the USEPA Region I, except for changes that qualify as insignificant activities in Appendix A of APC Regulation No. 29. This notice shall describe each change, including the date, and change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change. [29.11.2(c)]
  - e. The permit shield does not apply to changes made under this provision. [29.11.2(d)]
  - f. The permittee shall keep a record describing changes made at the stationary source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under this permit, and the emissions resulting from those changes, including any other data necessary to show compliance with applicable ambient air quality standards. The record shall reside at the permittee's facility. [29.11.2(e)]
2. Changes made pursuant to this provision shall not be exempt from the requirement to obtain a minor source permit pursuant to the requirements of Air Pollution Control Regulation No. 9, if applicable. [29.11.2(a)]
  3. Changes made pursuant to this provision shall be incorporated into this permit at the time of renewal. [29.11.2(f)]

**N. Section 502(b)(10) Changes**

1. The permittee is allowed to make changes within this permitted facility that contravene the specific terms of this permit without applying for a permit revision, provided the changes do not exceed the emissions allowable under this permit, whether expressed therein as a rate of emissions or in terms of total emissions and are not Title I modifications. This class of changes does not include:
  - a. changes that would violate applicable requirements; or
  - b. changes to federally-enforceable permit terms or conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements. [29.11.1(a), 29.1.36]
2. The permittee shall provide written notice to the Office of Air Resources and the USEPA Region I of any change made under this provision. The notice must be received by the Office of Air Resources no later than fourteen (14) days in advance of the proposed changes. The notice shall include information describing the nature of the change, the effect of the change on the emission of any air contaminant, the scheduled completion date of the planned change and identify any permit terms or

conditions that are no longer applicable as a result of the change. The permittee shall attach each notice to its copy of this permit. [29.11.1(a)(1), 29.11.1(a)(2)]

3. The permittee shall be allowed to make such change proposed in its notice the day following the last day of the advance notice described in paragraph 2 if the Office of Air Resources has not responded nor objected to the proposed change on or before that day. [29.11.1(b)]
4. Any permit shield provided in this permit does not apply to changes made under this provision. If subsequent changes cause the permittee's operations and emissions to revert to those anticipated in this permit, the permittee resumes compliance with the terms and conditions of the permit, and has provided the Office of Air Resources and USEPA with a minimum of fourteen (14) days advance notice of such changes in accordance with the provisions of paragraph 2, the permit shield shall be reinstated in accordance with terms and conditions stated in this permit. [29.11.1(c)]
5. Changes made pursuant to this provision shall be incorporated into the operating permit at the time of renewal. [29.11.1(d)]

**O. Emissions Trading**

No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit. [29.6.6(a)]

**P. Emission of Air Contaminants Detrimental to Person or Property**

The permittee shall not emit any air contaminant which either alone or in connection with other emissions, by reason of their concentration or duration, may be injurious to human, plant or animal life, or cause damage to property or which unreasonably interferes with the enjoyment of life or property. [7.1]

**Q. Odors**

1. The permittee shall not emit or cause to be emitted into the atmosphere any air contaminant or combination of air contaminants which creates an objectionable odor beyond the property line of this facility. [17.1]
2. A staff member of the Office of Air Resources shall determine by personal observation if an odor is objectionable, taking into account its nature, concentration, location, duration and source. [17.2]

**R. Visible Emissions**

1. Except as may be specified in other provisions of this permit, the permittee shall not emit into the atmosphere, from any emission unit, any air contaminant, for a period

or periods aggregating more than three minutes in any one hour, which is greater than or equal to 20 percent opacity. [1.2] Where the presence of uncombined water is the only reason for failure to meet this requirement, such failure shall not be a violation of this permit. [1.4]

2. Tests for determining compliance with the opacity limitations specified in this permit shall be performed per 40 CFR 60, Appendix A, Method 9. Additionally, all observers must qualify as per 40 CFR 60, Appendix A, Method 9. [1.3.1, 1.3.2]

**S. Open Fires**

It shall be unlawful for the permittee to burn any material in an open fire, except as provided in APC Regulation No. 4, Section 4.3. [4.2]

**T. Construction Permits**

It shall be unlawful for the permittee to construct, install, modify or cause the construction, installation or modification of any stationary source subject to the provisions of APC Regulation No. 9 without obtaining either a minor source permit or a major source permit from the Director. [9.2.1]

**U. Sulfur in Fuel**

1. Except as may be specified in other provisions of this permit, unless the Director declares in writing after a hearing that a shortage of low sulfur fuel exists, the permittee shall not use or store fuel oil with a sulfur content greater than 1.0% by weight, except for use with marine vessels or motor vehicles. [8.2, 8.3.6]
2. Compliance with the sulfur in fuel limitations contained in this section shall be determined by the procedures listed below or by another method deemed equivalent by the Director and USEPA: [29.6.3(b)]
  - a. For each shipment of fuel oil, the permittee shall obtain a certification from the fuel supplier which contains:
    - (1) For distillate fuel oil:
      - (a) the name of the supplier
      - (b) a statement that the oil complies with the specification for fuel oil number 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78 "Standard Specification for Fuel Oils."

- (2) For residual fuel oil:
  - (a) The name of the supplier,
  - (b) The nitrogen and sulfur content of the oil and the ASTM method used to determine the nitrogen and sulfur content of the oil,
  - (c) The location of the oil when the sample was drawn for analysis to determine the nitrogen and sulfur content of the oil, specifically including whether the oil was sampled as delivered to the permittee or whether the sample was drawn from oil in storage at the oil suppliers/refiners facility or another location. [29.6.3(b)]
  
- (3) For diesel fuel oil:
  - (a) The name of the fuel supplier;
  - (b) A statement that the oil complies with the specification for diesel fuel oil grade 1-D or 2-D, as defined by the American Society for Testing and Materials in ASTM D975-03 "Standard Specification for Fuel Oils." [29.6.3]
  
- b. As an alternative to fuel oil certification, the permittee may elect to sample the fuel oil prior to combustion. Sampling and analysis shall be conducted after each new shipment of fuel oil is received. Samples shall be collected from the fuel tank immediately after the fuel tank is filled and before any fuel oil is combusted. [8.4.1(b), 29.6.3(b)]
  
- c. All fuel oil must be sampled and analyzed according to ASTM methods which have the prior approval of or are required by the Office of Air Resources. [8.4.1(b), 29.6.3(b)]
  
- d. Copies of the fuel oil analysis sheets shall be maintained at the facility and be made accessible for review by the Office of Air Resources or designated personnel of the Office of Air Resources and USEPA. These records shall include a certified statement, signed by a responsible official, that the records represent all of the fuel combusted during each quarter. [29.6.3(b)]
  
- e. The Director may require, under his supervision, the collection of fossil fuel samples for the purpose of determining compliance with the sulfur limitations in this permit. Sampling and analysis of fossil fuels under Condition II.U.2 of this permit shall not limit the collection of samples under this condition. [8.4.3]

**V. Air Pollution Episodes**

Conditions justifying the proclamation of an air pollution alert, air pollution warning or air pollution emergency shall be deemed to exist whenever the Director determines that the accumulation of air pollutants in any place is attaining or has attained levels which could, if such levels are sustained or exceeded, lead to a substantial threat to the health of persons. If the governor declares an air pollution alert, air pollution warning or air pollution emergency, the permittee shall comply with the applicable requirements contained in APC Regulation No. 10. [10.1]

**W. Fugitive Dust**

The permittee shall not cause or permit any materials, including but not limited to sand, gravel, soil, aggregate and any other organic or inorganic solid matter capable of releasing dust, to be handled, transported, mined, quarried, stored or otherwise utilized in any way so as to cause airborne particulate matter to travel beyond the property line of the facility without taking adequate precautions to prevent particulate matter from becoming airborne. Such precaution shall be in accordance with good industrial practice as determined by the Director and/or shall be other reasonable fugitive dust prevention measures as determined by the Director. [5.2]

**X. Compliance Certifications**

1. The permittee shall submit a certification of compliance with permit terms and conditions annually. [29.6.5(c)(1)]
2. The certification shall describe the following:
  - a. the permit term or condition that is the basis of the certification; [29.6.5(c)(3)a]
  - b. the current compliance status; [29.6.5(c)(3)b]
  - c. whether compliance was continuous or intermittent; and [29.6.5(c)(3)c]
  - d. the methods used for determining compliance, currently and over the reporting period. [29.6.5(c)(3)d]
3. All compliance certifications shall be submitted to the Office of Air Resources and to the USEPA Region I. It shall be submitted within 60 days following the end of the reporting period which is the calendar year unless otherwise specified. [29.6.5(c)(4)]
4. All compliance certifications shall be certified as being true, accurate, and complete

by a responsible corporate official. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the certification are true, accurate, and complete. [29.6.8(e)]

**Y. Permit Shield**

1. Compliance with the terms and conditions of this permit shall be deemed compliance with all requirements applicable to the source in the following regulation(s): RI APC Regulations Nos. 1, 4, 5, 7, 8, 9, 10, 14, 15, 17, 28 and 29; Approval Nos. 2087 – 2089; 40 CFR 63 Subparts A, PPPP. [29.6.12(a)(1)]
2. The Office of Air Resources has determined that units P002, P004 and P005 are not subject to RI APC Regulation Nos. 3, 6, 11, 12, 13, 19, 20, 21, 22, 23, 24, 25, 26, 27, 30, 31, 32, 33, 35, 36, 39, 41, 43, 44, and 46. [29.6.12(a)(2)]
3. Nothing in this permit shall alter or affect the following:
  - a. the provisions of Section 303 of the Clean Air Act, including the authority of USEPA under that Section. [29.6.12(c)(1)]
  - b. the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance. [29.6.12(c)(2)]
  - c. the applicable requirements of the acid rain program consistent with Section 408 of the Clean Air Act. [29.6.12(c)(3)]
  - d. the ability of the USEPA to obtain information under Section 114 of the Act. [29.6.12(c)(4)]
4. If it is determined that this operating permit was issued based on inaccurate or incomplete information provided by the permittee, this permit shield shall be void as to the portions of this permit which are affected, directly or indirectly, by the inaccurate or incomplete information. [29.6.12(d)]

**Z. Recordkeeping**

1. The permittee shall, at the request of the Director, maintain a record of and provide data on operational processes, fuel usage, raw materials, stack dimensions, exhaust gas flow rates and temperatures, emissions of air contaminants, steam or hot water generator capacities, types of equipment producing air contaminants and air pollution control systems or other data that may be necessary to determine if the facility is in compliance with air pollution control regulations. [14.2.1]
2. All records and supporting information required by this permit shall be maintained at the permittee's 35 Martin Street facility for a period of at least 5 years from the date of sample monitoring, measurement, report or application, and shall be made

available to representatives of the Office of Air Resources and USEPA upon request. Supporting information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. [14.2.1, 29.6.4(a)(2), 40 CFR 40 CFR 63.10(b)(1), 63.4531(a-c), Approval Nos. 2087 – 2089(D)(11)]

3. The permittee shall keep records of required monitoring information that include the following:
  - a. The date, place and time of sampling or measurements; [29.6.4(a)(1)]
  - b. The date(s) analyses were performed; [29.6.4(a)(1)]
  - c. The company or entity that performed the analyses; [29.6.4(a)(1)]
  - d. The analytical techniques or methods used; [29.6.4(a)(1)]
  - e. The results of such analyses; and [29.6.4(a)(1)]
  - f. The operating conditions as existing at the time of sampling or measurement. [29.6.4(a)(1)]

**AA. Reporting**

1. The information recorded by the permittee pursuant to Condition II.Z.1 of this Section shall be summarized and reported at least annually to the Director. It shall be submitted by April 15<sup>th</sup> unless otherwise specified. [14.2.2] Information submitted pursuant to this condition will be correlated with applicable emission limitations and other applicable emissions information and will be made available for public inspection. [14.2.3]
2. The permittee shall submit reports of any required monitoring for each semi annual period ending 30 June and 31 December of every calendar year. These reports shall be due to the Office of Air Resources no later than forty-five (45) days after the end of the reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with condition II.X.4. [29.6.4(b)(1)]
3. Deviations from permit conditions, including those attributable to upset conditions as defined in this permit, shall be reported, in writing, within five (5) business days of the deviation, to the Office of Air Resources. A copy of any such report shall be sent to the USEPA Region I. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken. Each report

must be certified by a responsible official consistent with Condition II.X.4. of this permit. [29.6.4(b)(2), Approval Nos. 2087 – 2089(D)(10)]

4. The Office of Air Resources shall be notified in writing of any planned physical change or operational change to the emissions units and control devices identified in this permit. Such notification shall include information describing the nature of the change, information describing the effect of the change on the emissions of air contaminants and the scheduled completion date of the planned change. Any change which may result in an increased emission rate of any air contaminant shall be subject to approval of the Office of Air Resources. [29.6.3(b), Approval Nos. 2087 – 2089(D)(9)]

**BB. Credible Evidence**

For the purpose of submitting compliance certifications or establishing whether or not the permittee has violated or is in violation of any provision of this permit, the methods used in this permit shall be used, as applicable. However, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether the permittee would have been in compliance with applicable requirements if the appropriate performance or compliance test procedures or methods had been performed. [40 CFR 51.212c, 52.12c, 52.33a]

**CC. Emission Statements**

1. The permittee shall submit annually an emission statement which includes information for both VOC and NO<sub>x</sub> if facility wide actual emissions are 25 tons per year of either pollutant. Emission statements shall be submitted to the Director on April 15<sup>th</sup> of each year unless otherwise specified. The permittee may apply to the Office of Air Resources to be allowed to discontinue submitting annual emission statements if actual emissions at the facility decrease to below 10 tons per year as a result of a permanent process change. [14.3.1] The permittee shall submit an emission statement in a format approved by the Office of Air Resources. The emission statement shall contain the following information: [14.3.2]
  - a. A certification that the information contained in the emission statement is accurate and complete to the best knowledge of the certifying individual.
  - b. The full name, title, signature, date of signature, and telephone number of the certifying individual.
  - c. Facility identification information, including the full name, physical location, mailing address, latitude, longitude, and four digit SIC code(s).
  - d. Process data pertaining to each process emitting VOC and/or NO<sub>x</sub>, including:
    - (1) Annual and typical ozone season daily fuel use,

- (3) Annual and typical ozone season daily process rate(s), and
  - (4) Process throughput while air pollution control equipment was not in operation.
- e. Operating data pertaining to each process emitting VOC and/or NO<sub>x</sub> during the reporting year, including:
- (1) Percentage annual throughput,
  - (2) Average hours of operation per day during the reporting year and on a typical ozone season day,
  - (3) Average number of days of operation per week during the reporting year and during a typical ozone season week, and
  - (4) Weeks of operation during the reporting year and during the peak ozone season.
- f. Control equipment information, including:
- (1) Specific primary and secondary control equipment for each process emitting VOC and/or NO<sub>x</sub>,
  - (2) Current overall control efficiency for each piece of control equipment (indicated by percent capture and percent destruction or removal), and
  - (3) Control equipment downtime during the reporting year and during the peak ozone season.
- g. Emissions information, including:
- (1) Actual annual and typical ozone season daily emissions of VOC and NO<sub>x</sub> for each process. Emissions should be reported in tons per year and in pounds per day.
  - (2) A description of the emission calculation method and, if applicable, emission factor(s) used, and
  - (3) The calendar year for which emissions are reported.
- h. Any additional information required by the Director to document the facility's emission statements.

**DD. Miscellaneous Conditions**

1. This permit may be modified, revoked, reopened, reissued or terminated for cause. The filing of a request, by the permittee, for a permit modification, revocation and reissuance or termination or of a notification of planned changes or anticipated noncompliance does not release the permittee from the conditions of this permit. [29.6.8(c)(3)]
2. Any application for a permit revision need only submit information related to the

proposed change. [29.4.3(c)]

3. Terms not otherwise defined in this permit shall have the meaning given to such terms in 40 CFR 63.2, the Clean Air Act as amended in 1990, or the referenced regulation as applicable.
4. Where more than one condition in this permit applies to an emission unit and/or the entire facility, the most stringent condition shall apply.

### SECTION III. SPECIAL CONDITIONS

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#### A. Ozone-depleting Substances

This section contains air pollution control requirements that are applicable to this facility and the United States Environmental Protection Agency enforces these requirements.

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 containing a class I or class II substance that 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 40 CFR 82.106.
  - b. The placement of the required warning statement must comply with the requirements of 40 CFR 82.108.
  - c. The form of the label bearing the required warning statement must comply with the requirements of 40 CFR 82.110.
  - d. No person may modify, remove or interfere with the required warning statement except as described in 40 CFR 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 (MVAC) in Subpart B:
  - a. Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices of 40 CFR 82.156.
  - b. Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment of 40 CFR 82.158.
  - c. Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.
  - d. Persons disposing of small appliances, MVACs and MVAC-like appliances (as defined in 40 CFR 82.152) must comply with recordkeeping requirements of 40 CFR 82.166.

- e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair equipment requirements of 40 CFR 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 40 CFR 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".

**B. Prevention of Accidental Releases**

This section contains air pollution control requirements that are applicable to this facility and the United States Environmental Protection Agency enforces these requirements.

Your facility is subject to the requirements of the General Duty Clause, under 112(r)(1) of the CAA Amendments of 1990. This clause specifies that owners or operators of stationary sources producing, processing, handling or storing a chemical in any quantity listed in 40 CFR Part 68 or any other extremely hazardous substance have a general duty to identify hazards associated with these substances and to design, operate and maintain a safe facility, in order to prevent releases and to minimize the consequences of accidental releases which may occur.

## Appendix A

### *Determination of Weight Volatile Matter Content and Weight Solids Content of Reactive Adhesives*

#### 1.0 Applicability and Principle

1.1 *Applicability:* This method applies to the determination of weight volatile matter content and weight solids content for most one-part or multiple-part reactive adhesives. Reactive adhesives are composed, in large part, of monomers that react during the adhesive curing reaction, and, as a result, do not volatilize. The monomers become integral parts of the cured adhesive through chemical reaction. At least 70 weight percent of the system, excluding water and non-volatile solids such as fillers, react during the process. This method is not appropriate for cyanoacrylates. For cyanoacrylates, South Coast Air Quality Management District Test Method 316B should be used. This method is not appropriate for one-part moisture cure urethane adhesives or for silicone adhesives. For one-part moisture cure urethane adhesives and for silicone adhesives, USEPA Method 24 should be used.

1.2 *Principle:* One-part and multiple-part reactive adhesives undergo a reactive conversion from liquid to solid during the application and assembly process. Reactive adhesives are applied to a single surface, but then are usually quickly covered with another mating surface to achieve a bonded assembly. The monomers employed in such systems typically react and are converted to non-volatile solids. If left uncovered, as in a Method 24 (ASTM D2369) test, the reaction is inhibited by the presence of oxygen and volatile loss of the reactive components competes more heavily with the cure reaction. If this were to happen under normal use conditions, the adhesives would not provide adequate performance. This method minimizes this undesirable deterioration of the adhesive performance.

#### 2.0 Materials and Apparatus

2.1 Aluminum foil, aluminum sheet, non-leaching plastic film or non-leaching plastic sheet, approximately 3 inches by 3 inches. Precondition the foil, film, or sheet for 30 minutes in an oven at  $110 \pm 5$  degrees Celsius and store in a desiccator prior to use. Use tongs or rubber gloves or both to handle the foil, film, or sheet.

2.2 Flat, rigid support panels slightly larger than the foil, film, or sheet. Polypropylene with a minimum thickness of  $1/8$  inch is recommended for the support panels. Precondition the support panels for 30 minutes in an oven at  $110 \pm 5$  degrees Celsius and store in a desiccator prior to use. Use tongs or rubber gloves or both to handle the support panels.

2.3 Aluminum spacers,  $1/8$  inch thick. Precondition the spacers for 30 minutes in an oven at  $110 \pm 5$  degrees Celsius and store in a desiccator prior to use. Use tongs or rubber gloves or both to handle the spacers.

2.4 Forced draft oven, type IIA or IIB as specified in ASTM E145–94 (Reapproved 2001), “Standard Specification for Gravity-Convection and Forced-Ventilation Ovens” (incorporated by reference, see §63.14).

2.5 Electronic balance capable of weighing to  $\pm 0.0001$  grams (0.1 mg).

2.6 Flat bottom weight (approximately 3 lbs) or clamps.

### *Material and Apparatus Notes*

1—The foil, film, or sheet should be thick or rigid enough so that it can be easily handled in the test procedure.

### 3.0 Procedure

3.1 Two procedures are provided. In Procedure A the initial specimen weight is determined by weighing the foil, film, or sheet before and after the specimen is dispensed onto the foil, film, or sheet. In Procedure B the initial specimen weight is determined by weighing the adhesive cartridge (kit) before and after the specimen is dispensed.

3.2 At least four test specimens should be run for each test material. Run the test at room temperature, 74 degrees Fahrenheit (23 degrees Celsius).

#### *Procedure A*

1. Zero electronic balance.
2. Place 2 pieces of aluminum foil (or aluminum sheet, plastic film, or plastic sheet) on scale.
3. Record weight of aluminum foils. (A).
4. Tare balance.
5. Remove top piece of aluminum foil.
6. Dispense a 10 to 15 gram specimen of premixed adhesive onto bottom piece of aluminum foil. Place second piece of aluminum foil on top of the adhesive specimen to make a sandwich.
7. Record weight of sandwich (specimen and aluminum foils). (B).
8. Remove sandwich from scale, place sandwich between two support panels with aluminum spacers at the edges of the support panels to make a supported sandwich. The spacers provide a standard gap. Take care to mate the edges.
9. Place the supported sandwich on a flat surface.

10. Place the weight on top of the supported sandwich to spread the adhesive specimen to a uniform thickness within the sandwich. Check that no adhesive squeezes out from between the pieces of aluminum foil or through tears in the aluminum foil.
11. Allow to cure 24 hours.
12. Remove the sandwich from between the support panels. Record the weight of the sandwich. This is referred to as the 24 hr weight. (C).
13. Bake sandwich at 110 degrees Celsius for 1 hour.
14. Remove sandwich from the oven, place immediately in a desiccator, and cool to room temperature. Record post bake sandwich weight. (D).

*Procedure B*

1. Zero electronic balance.
2. Place two pieces of aluminum foil (or aluminum sheet, plastic film, or plastic sheet) on scale.
3. Record weight of aluminum foils. (A).
4. Tare balance.
5. Place one support panel on flat surface. Place first piece of aluminum foil on top of this support panel.
6. Record the weight of a pre-mixed sample of adhesive in its container. If dispensing the adhesive from a cartridge (kit), record the weight of the cartridge (kit) plus any dispensing tips. (F).
7. Dispense a 10 to 15 gram specimen of mixed adhesive onto the first piece of aluminum foil. Place second piece of aluminum foil on top of the adhesive specimen to make a sandwich.
8. Record weight of the adhesive container. If dispensing the adhesive from a cartridge (kit), record the weight of the cartridge (kit) plus any dispensing tips. (G).
9. Place the aluminum spacers at the edges of the bottom support panel polypropylene sheet. The spacers provide a standard gap.
10. Place the second support panel on top of the assembly to make a supported sandwich. Take care to mate the edges.
11. Place the supported sandwich on a flat surface.

12. Place the weight on top of the supported sandwich to spread the adhesive specimen to a uniform thickness within the sandwich. Check that no adhesive squeezes out from between the pieces of aluminum foil or through tears in the aluminum foil.
13. Allow to cure 24 hours.
14. Remove the sandwich from between the support panels. Record the weight of the sandwich. This is referred to as the 24 hr weight. (C).
15. Bake sandwich at 110 degrees Celsius for 1 hour.
16. Remove sandwich from the oven, place immediately in a desiccator, and cool to room temperature.
17. Record post-bake sandwich weight. (D).

#### *Procedural Notes*

1—The support panels may be omitted if the aluminum foil (or aluminum sheet, plastic film, or plastic sheet) will not tear and the adhesive specimen will spread to a uniform thickness within the sandwich when the flat weight is placed directly on top of the sandwich.

2—Clamps may be used instead of a flat bottom weight to spread the adhesive specimen to a uniform thickness within the sandwich.

3—When dispensing from a static mixer, purging is necessary to ensure uniform, homogeneous specimens. The weighing in Procedure B, Step 6 must be performed after any purging.

4—Follow the adhesive manufacturer's directions for mixing and for dispensing from a cartridge (kit).

#### 4.0 Calculations

4.1 The total weight loss from curing and baking of each specimen is used to determine the weight percent volatile matter content of that specimen

#### *Procedure A*

Weight of original specimen (S) = (B)–(A)

Weight of post-bake specimen (P) = (D)–(A)

Total Weight Loss (L) = (S)–(P)

#### *Procedure B*

Weight of original specimen (S) = (F)–(G)

Weight of post-bake specimen (P) = (D)–(A)

Total Weight Loss (L) = (S)–(P)

*Procedure A and Procedure B*

Weight Percent Volatile Matter Content

$(V) = [(Total\ weight\ loss)/(Initial\ specimen\ weight)] \times 100 = [(L)/(S)] \times 100$

4.2 The weight volatile matter content of a material is the average of the weight volatile matter content of each specimen of that material. For example, if four specimens of a material were tested, then the weight percent volatile matter content for that material is:

$V = [V1 + V2 + V3 + V4]/4$

Where:

$V_i$  = the weight percent volatile matter content of specimen  $i$  of the material.

4.3 The weight percent solids content of the material is calculated from the weight percent volatile content of the material.

Weight Percent Solids Content (N) = 100–(V)

*Calculation Notes*

1—The weight loss during curing and the weight loss during baking may be calculated separately. These values may be useful for identifying sources of variation in the results obtained for different specimens of the same material.

2—For both Procedure A and Procedure B, the weight loss during curing is (S)–[(C)–(A)] and the weight loss during baking is (C)–(D).

[40 CFR 63, Subpart PPPP, Appendix A, Approval Nos.2087-2089 Appendix A]

**Appendix B**

***Table 3 to Subpart PPPP of Part 63—Default Organic HAP Mass Fraction for Solvents and Solvent Blends***

You may use the mass fraction values in the following table for solvent blends for which you do not have test data or manufacturer's formulation data and which match either the solvent blend name or the chemical abstract series (CAS) number. If a solvent blend matches both the name and CAS number for an entry, that entry's organic HAP mass fraction must be used for that solvent blend. Otherwise, use the organic HAP mass fraction for the entry matching either the solvent blend name or CAS number, or use the organic HAP mass fraction from table 4 to this subpart if neither the name or CAS number match.

<b>Solvent/solvent blend</b>	<b>CAS. No.</b>	<b>Average organic HAP mass fraction</b>	<b>Typical organic HAP, percent by mass</b>
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.

<b>Solvent/solvent blend</b>	<b>CAS. No.</b>	<b>Average organic HAP mass fraction</b>	<b>Typical organic HAP, percent by mass</b>
19. Super high-flash naphtha	64742-95-6	0.05	Xylenes.
20. Varsol <sup>®</sup> solvent	8052-49-3	0.01	0.5% xylenes, 0.5% ethylbenzene.
21. VM & P naphtha	64742-89-8	0.06	3% toluene, 3% xylene.
22. Petroleum distillate mixture	68477-31-6	0.08	4% naphthalene, 4% biphenyl.

[40 CFR 63, Subpart PPPP, Table 3, Approval Nos.2087-2089 Appendix B]

**Appendix C**

You may use the mass fraction values in the following table for solvent blends for which you do not have test data or manufacturer's formulation data.

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

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

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

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

[40 CFR 63, Subpart PPPP, Table 4, Approval Nos.2087-2089 Appendix C]

### Appendix D

You must comply with the applicable General Provisions requirements according to the following table

<b>Citation</b>	<b>Subject</b>	<b>Applicable to subpart PPPP</b>	<b>Explanation</b>
§63.1(a)(1)–(14)	General Applicability	Yes.	
§63.1(b)(1)–(3)	Initial Applicability Determination	Yes	Applicability to subpart PPPP is also specified in §63.4481.
§63.1(c)(1)	Applicability After Standard Established	Yes.	
§63.1(c)(2)–(3)	Applicability of Permit Program for Area Sources	No	Area sources are not subject to subpart PPPP.
§63.1(c)(4)–(5)	Extensions and Notifications	Yes.	
§63.1(e)	Applicability of Permit Program Before Relevant Standard is Set	Yes.	
§63.2	Definitions	Yes	Additional definitions are specified in §63.4581.
§63.3(a)–(c)	Units and Abbreviations	Yes.	
§63.4(a)(1)–(5)	Prohibited Activities	Yes.	
§63.4(b)–(c)	Circumvention/Severability	Yes.	
§63.5(a)	Construction/Reconstruction	Yes.	
§63.5(b)(1)–(6)	Requirements for Existing, Newly Constructed, and Reconstructed Sources	Yes.	
§63.5(d)	Application for Approval of Construction/Reconstruction	Yes.	
§63.5(e)	Approval of Construction/Reconstruction	Yes.	
§63.5(f)	Approval of Construction/Reconstruction Based on Prior State Review	Yes.	

Citation	Subject	Applicable to subpart PPPP	Explanation
§63.6(a)	Compliance With Standards and Maintenance Requirements—Applicability	Yes.	
§63.6(b)(1)–(7)	Compliance Dates for New and Reconstructed Sources	Yes	Section 63.4483 specifies the compliance dates.
§63.6(c)(1)–(5)	Compliance Dates for Existing Sources	Yes	Section 63.4483 specifies the compliance dates.
§63.6(e)(1)–(2)	Operation and Maintenance	Yes.	
§63.6(e)(3)	Startup, Shutdown, and Malfunction Plan	Yes	Only sources using an add-on control device to comply with the standard must complete startup, shutdown, and malfunction plans.
§63.6(f)(1)	Compliance Except During Startup, Shutdown, and Malfunction	Yes	Applies only to sources using an add-on control device to comply with the standard.
§63.6(f)(2)–(3)	Methods for Determining Compliance	Yes.	
§63.6(g)(1)–(3)	Use of an Alternative Standard	Yes.	
§63.6(h)	Compliance With Opacity/Visible Emission Standards	No	Subpart PPPP does not establish opacity standards and does not require continuous opacity monitoring systems (COMS).
§63.6(i)(1)–(16)	Extension of Compliance	Yes.	
§63.6(j)	Presidential Compliance Exemption	Yes.	
§63.7(a)(1)	Performance Test Requirements—Applicability	Yes	Applies to all affected sources. Additional requirements for performance testing are specified in §§63.4564, 63.4565, and 63.4566.

Citation	Subject	Applicable to subpart PPPP	Explanation
§63.7(a)(2)	Performance Test Requirements— Dates	Yes	Applies only to performance tests for capture system and control device efficiency at sources using these to comply with the standards. Section 63.4560 specifies the schedule for performance test requirements that are earlier than those specified in §63.7(a)(2).
§63.7(a)(3)	Performance Tests Required By the Administrator	Yes.	
§63.7(b)–(e)	Performance Test Requirements— Notification, Quality Assurance, Facilities Necessary for Safe Testing, Conditions During Test	Yes	Applies only to performance tests for capture system and add-on control device efficiency at sources using these to comply with the standards.
§63.7(f)	Performance Test Requirements— Use Alternative Test Method	Yes	Applies to all test methods except those of used to determine capture system efficiency.
§63.7(g)–(h)	Performance Test Requirements— Data Analysis, Recordkeeping, Reporting, Waiver of Test	Yes	Applies only to performance tests for capture system and add-on control device efficiency at sources using these to comply with the standards.
§63.8(a)(1)– (3)	Monitoring Requirements— Applicability	Yes	Applies only to monitoring of capture system and add-on control device efficiency at sources using these to comply with the standards. Additional requirements for monitoring are specified in §63.4568.
§63.8(a)(4)	Additional Monitoring Requirements	No	Subpart PPPP does not have monitoring requirements for flares.
§63.8(b)	Conduct of Monitoring	Yes.	

Citation	Subject	Applicable to subpart PPPP	Explanation
§63.8(c)(1)–(3)	Continuous Monitoring Systems (CMS) Operation and Maintenance	Yes	Applies only to monitoring of capture system and add-on control device efficiency at sources using these to comply with the standard. Additional requirements for CMS operations and maintenance are specified in §63.4568.
§63.8(c)(4)	CMS	No	Section 63.4568 specifies the requirements for the operation of CMS for capture systems and add-on control devices at sources using these to comply.
§63.8(c)(5)	COMS	No	Subpart PPPP does not have opacity or visible emission standards.
§63.8(c)(6)	CMS Requirements	No	Section 63.4568 specifies the requirements for monitoring systems for capture systems and add-on control devices at sources using these to comply.
§63.8(c)(7)	CMS Out-of-Control Periods	Yes.	
§63.8(c)(8)	CMS Out-of-Control Periods and Reporting	No	Section 63.4520 requires reporting of CMS out-of-control periods.
§63.8(d)–(e)	Quality Control Program and CMS Performance Evaluation	No	Subpart PPPP does not require the use of continuous emissions monitoring systems.
§63.8(f)(1)–(5)	Use of an Alternative Monitoring Method	Yes.	
§63.8(f)(6)	Alternative to Relative Accuracy Test	No	Subpart PPPP does not require the use of continuous emissions monitoring systems.
§63.8(g)(1)–(5)	Data Reduction	No	Sections 63.4567 and 63.4568 specify monitoring data reduction.

Citation	Subject	Applicable to subpart PPPP	Explanation
§63.9(a)–(d)	Notification Requirements	Yes.	
§63.9(e)	Notification of Performance Test	Yes	Applies only to capture system and add-on control device performance tests at sources using these to comply with the standards.
§63.9(f)	Notification of Visible Emissions/Opacity Test	No	Subpart PPPP does not have opacity or visible emission standards.
§63.9(g)(1)–(3)	Additional Notifications When Using CMS	No	Subpart PPPP does not require the use of continuous emissions monitoring systems.
§63.9(h)	Notification of Compliance Status	Yes	Section 63.4510 specifies the dates for submitting the notification of compliance status.
§63.9(i)	Adjustment of Submittal Deadlines	Yes.	
§63.9(j)	Change in Previous Information	Yes.	
§63.10(a)	Recordkeeping/Reporting—Applicability and General Information	Yes.	
§63.10(b)(1)	General Recordkeeping Requirements	Yes	Additional requirements are specified in §§63.4530 and 63.4531.
§63.10(b)(2)(i)–(v)	Recordkeeping Relevant to Startup, Shutdown, and Malfunction Periods and CMS	Yes	Requirements for startup, shutdown, and malfunction records only apply to add-on control devices used to comply with the standards.
§63.10(b)(2)(vi)–(xi)		Yes.	
§63.10(b)(2)(xii)	Records	Yes.	

<b>Citation</b>	<b>Subject</b>	<b>Applicable to subpart PPPP</b>	<b>Explanation</b>
§63.10(b)(2) (xiii)		No	Subpart PPPP does not require the use of continuous emissions monitoring systems.
§63.10(b)(2) (xiv)		Yes.	
§63.10(b)(3)	Recordkeeping Requirements for Applicability Determinations	Yes.	
§63.10(c)(1)–(6)	Additional Recordkeeping Requirements for Sources with CMS	Yes	
§63.10(c)(7)–(8)		No	The same records are required in §63.4520(a)(7).
§63.10(c)(9)–(15)		Yes.	
§63.10(d)(1)	General Reporting Requirements	Yes	Additional requirements are specified in §63.4520.
§63.10(d)(2)	Report of Performance Test Results	Yes	Additional requirements are specified in §63.4520(b).
§63.10(d)(3)	Reporting Opacity or Visible Emissions Observations	No	Subpart PPPP does not require opacity or visible emissions observations.
§63.10(d)(4)	Progress Reports for Sources With Compliance Extensions	Yes.	
§63.10(d)(5)	Startup, Shutdown, and Malfunction Reports	Yes	Applies only to add-on control devices at sources using these to comply with the standards.
§63.10(e)(1)–(2)	Additional CMS Reports	No	Subpart PPPP does not require the use of continuous emissions monitoring systems.
§63.10(e)(3)	Excess Emissions/CMS Performance Reports	No	Section 63.4520(b) specifies the contents of periodic compliance reports.

<b>Citation</b>	<b>Subject</b>	<b>Applicable to subpart PPPP</b>	<b>Explanation</b>
§63.10(e)(4)	COMS Data Reports	No	Subpart PPPP does not specify requirements for opacity or COMS.
§63.10(f)	Recordkeeping/Reporting Waiver	Yes.	
§63.11	Control Device Requirements/Flares	No	Subpart PPPP does not specify use of flares for compliance.
§63.12	State Authority and Delegations	Yes.	
§63.13	Addresses	Yes.	
§63.14	Incorporation by Reference	Yes.	
§63.15	Availability of Information/Confidentiality	Yes.	

[40 CFR 63, Subpart PPPP, Table 2]