

APPENDIX B – TABLE 2, 3, 5, 6 & 8 TO SUBPART VVVV OF PART 63**Table 2 to Subpart VVVV of Part 63—Alternative Organic HAP Content Requirements for Open Molding Resin and Gel Coat Operations**

As specified in §§63.5701(b), 63.5704(b)(2), and 63.5713(a), (b), and (d), you must comply with the requirements in the following table:

For this operation—	And this application method—	You must not exceed this weighted-average organic HAP content (weight percent) requirement—
1. Production resin operations	Atomized (spray)	28 percent.
2. Production resin operations	Nonatomized (nonspray)	35 percent.
3. Pigmented gel coat operations	Any method	33 percent.
4. Clear gel coat operations	Any method	48 percent
5. Tooling resin operations	Atomized (spray)	30 percent.
6. Tooling resin operations	Nonatomized (nonspray)	39 percent.
7. Tooling gel coat operations	Any method	40 percent.

Table 3 to Subpart VVVV of Part 63—MACT Model Point Value Formulas for Open Molding Operations¹

As specified in §§63.5710(d) and 63.5714(a), you must calculate point values using the formulas in the following table:

For this operation—	And this application method—	Use this formula to calculate the MACT model plant value for each resin and gel coat—
1. Production resin, tooling resin	a. Atomized	$0.014 \times (\text{Resin HAP}\%)^{2.425}$
	b. Atomized, plus vacuum bagging with roll-out	$0.01185 \times (\text{Resin HAP}\%)^{2.425}$
	c. Atomized, plus vacuum bagging without roll-out	$0.00945 \times (\text{Resin HAP}\%)^{2.425}$
	d. Nonatomized	$0.014 \times (\text{Resin HAP}\%)^{2.275}$
	e. Nonatomized, plus vacuum bagging with roll-out	$0.0110 \times (\text{Resin HAP}\%)^{2.275}$

	f. Nonatomized, plus vacuum bagging without roll-out	$0.0076 \times (\text{Resin HAP}\%)^{2.275}$
2. Pigmented gel coat, clear gel coat, tooling gel coat	All methods	$0.445 \times (\text{Gel coat HAP}\%)^{1.675}$

¹Equations calculate MACT model point value in kilograms of organic HAP per megagrams of resin or gel coat applied. The equations for vacuum bagging with roll-out are applicable when a facility rolls out the applied resin and fabric prior to applying the vacuum bagging materials. The equations for vacuum bagging without roll-out are applicable when a facility applies the vacuum bagging materials immediately after resin application without rolling out the resin and fabric. HAP% = organic HAP content as supplied, expressed as a weight-percent value between 0 and 100 percent.

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Table 5 to Subpart VVVV of Part 63—Default Organic HAP Contents of Solvents and Solvent Blends

As specified in §63.5758(a)(6), when detailed organic HAP content data for solvent blends are not available, you may use the values in the following table:

Solvent/solvent blend	CAS No.	Average organic HAP content, percent by mass	Typical organic HAP, percent by mass
1. Toluene	108–88–3	100	Toluene.
2. Xylene(s)	1330–20–7	100	Xylenes, ethylbenzene.
3. Hexane	110–54–3	50	n-hexane.
4. n-hexane	110–54–3	100	n-hexane.
5. Ethylbenzene	100–41–4	100	Ethylbenzene.
6. Aliphatic 140		0	None.
7. Aromatic 100		2	1% xylene, 1% cumene.
8. Aromatic 150		9	Naphthalene.
9. Aromatic naptha	64742–95–6	2	1% xylene, 1% cumene.
10. Aromatic solvent	64742–94–5	10	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	15	Toluene.

Solvent/solvent blend	CAS No.	Average organic HAP content, percent by mass	Typical organic HAP, percent by mass
14. Low aromatic white spirit	64742–82–1	0	None.
15. Mineral spirits	64742–88–7	1	Xylenes.
16. Hydrotreated naphtha	64742–48–9	0	None.
17. Hydrotreated light distillate	64742–47–8	0.1	Toluene.
18. Stoddard solvent	8052–41–3	1	Xylenes.
19. Super high-flash naphtha	64742–95–6	5	Xylenes.
20. Varol [®] solvent	8052–49–3	1	0.5% xylenes, 0.5% ethyl benzene.
21. VM & P naphtha	64742–89–8	6	3% toluene, 3% xylene.
22. Petroleum distillate mixture	68477–31–6	8	4% naphthalene, 4% biphenyl.

Table 6 to Subpart VVVV of Part 63—Default Organic HAP Contents of Petroleum Solvent Groups

As specified in §63.5758(a)(6), when detailed organic HAP content data for solvent blends are not available, you may use the values in the following table:

Solvent type	Average organic HAP content, percent by mass	Typical organic HAP, percent by mass
Aliphatic (Mineral Spirits 135, Mineral Spirits 150 EC, Naphtha, Mixed Hydrocarbon, Aliphatic Hydrocarbon, Aliphatic Naptha, Naphthol Spirits, Petroleum Spirits, Petroleum Oil, Petroleum Naphtha, Solvent Naphtha, Solvent Blend.)	3	1% Xylene, 1% Toluene, and 1% Ethylbenzene.
Aromatic (Medium-flash Naphtha, High-flash Naphtha, Aromatic Naphtha, Light Aromatic Naphtha, Light Aromatic Hydrocarbons, Aromatic Hydrocarbons, Light Aromatic Solvent.)	6	4% Xylene, 1% Toluene, and 1% Ethylbenzene.

Table 8 to Subpart VVVV of Part 63—Applicability of General Provisions (40 CFR Part 63, Subpart A) to Subpart VVVV

As specified in §63.5773, you must comply with the applicable requirements of the General Provisions according to the following table:

Citation	Requirement	Applies to subpart VVVV	Explanation
§63.1(a)	General Applicability	Yes.	
§63.1(b)	Initial Applicability Determination	Yes.	
§63.1(c)(1)	Applicability After Standard Established	Yes.	
§63.1(c)(2)		Yes	Area sources are not regulated by subpart VVVV.
§63.1(c)(3)		No	[Reserved]
§63.1(c)(4)–(5)		Yes.	
§63.1(d)		No	[Reserved]
§63.1(e)	Applicability of Permit Program	Yes.	
§63.2	Definitions	Yes	Additional definitions are found in §63.5779.
§63.3	Units and Abbreviations	Yes.	
§63.4(a)	Prohibited Activities	Yes.	
§63.4(b)–(c)	Circumvention/Severability	Yes.	
§63.5(a)	Construction/Reconstruction	Yes.	
§63.5(b)	Requirements for Existing, Newly Constructed, and Reconstructed Sources	Yes.	
§63.5(c)		No	[Reserved]
§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.	
§63.6(a)	Compliance with Standards and Maintenance Requirements—	Yes.	

Citation	Requirement	Applies to subpart VVVV	Explanation
	Applicability		
§63.6(b)	Compliance Dates for New and Reconstructed Sources	Yes	§63.695 specifies compliance dates, including the compliance date for new area sources that become major sources after the effective date of the rule.
§63.6(c)	Compliance Dates for Existing Sources	Yes	§63.5695 specifies compliance dates, including the compliance date for existing area sources that become major sources after the effective date of the rule.
§63.6(d)		No	[Reserved]
§63.6(e)(1)–(2)	Operation and Maintenance Requirements	No	Operating requirements for open molding operations with add-on controls are specified in §63.5725.
§63.6(e)(3)	Startup, Shut Down, and Malfunction Plans	Yes	Only sources with add-on controls must complete startup, shutdown, and malfunction plans.
§63.6(f)	Compliance with Nonopacity Emission Standards	Yes.	
§63.6(g)	Use of an Alternative Nonopacity Emission Standard	Yes.	
§63.6(h)	Compliance with Opacity/Visible Emissions Standards	No	Subpart VVVV does not specify opacity or visible emission standards.
§63.6(i)	Extension of Compliance with Emission Standards	Yes.	
§63.6(j)	Exemption from Compliance with Emission Standards	Yes.	
§63.7(a)(1)	Performance Test Requirements	Yes.	
§63.7(a)(2)	Dates for performance tests	No	§63.5716 specifies performance test dates.
§63.7(a)(3)	Performance testing at other times	Yes.	
§63.7(b)–(h)	Other performance testing requirements	Yes.	
§63.8(a)(1)–(2)	Monitoring Requirements—Applicability	Yes	All of §63.8 applies only to sources with add-on controls. Additional monitoring requirements for sources with add-on controls are found in

Citation	Requirement	Applies to subpart VVVV	Explanation
			§63.5725.
§63.8(a)(3)		No	[Reserved]
§63.8(a)(4)		No	Subpart VVVV does not refer directly or indirectly to §63.11.
§63.8(b)(1)	Conduct of Monitoring	Yes.	
§63.8(b)(2)–(3)	Multiple Effluents and Multiple Continuous Monitoring Systems (CMS)	Yes	Applies to sources that use a CMS on the control device stack.
§63.8(c)(1)–(4)	Continuous Monitoring System Operation and Maintenance	Yes.	
§63.8(c)(5)	Continuous Opacity Monitoring Systems (COMS)	No	Subpart VVVV does not have opacity or visible emission standards.
§63.8(c)(6)–(8)	Continuous Monitoring System Calibration Checks and Out-of-Control Periods	Yes.	
§63.8(d)	Quality Control Program	Yes.	
§63.8(e)	CMS Performance Evaluation	Yes.	
§63.8(f)(1)–(5)	Use of an Alternative Monitoring Method	Yes.	
§63.8(f)(6)	Alternative to Relative Accuracy Test	Yes	Applies only to sources that use continuous emission monitoring systems (CEMS).
§63.8(g)	Data Reduction	Yes	
§63.9(a)	Notification Requirements—Applicability	Yes.	
§63.9(b)	Initial Notifications	Yes	
§63.9(c)	Request for Compliance Extension	Yes.	
§63.9(d)	Notification That a New Source Is Subject to Special Compliance Requirements	Yes.	
§63.9(e)	Notification of Performance Test	Yes	Applies only to sources with add-on controls.
§63.9(f)	Notification of Visible	No	Subpart VVVV does not have opacity

Citation	Requirement	Applies to subpart VVVV	Explanation
	Emissions/Opacity Test		or visible emission standards.
§63.9(g)(1)	Additional CMS Notifications—Date of CMS Performance Evaluation	Yes	Applies only to sources with add-on controls.
§63.9(g)(2)	Use of COMS Data	No	Subpart VVVV does not require the use of COMS.
§63.9(g)(3)	Alternative to Relative Accuracy Testing	Yes	Applies only to sources with CEMS.
§63.9(h)	Notification of Compliance Status	Yes.	
§63.9(i)	Adjustment of Deadlines	Yes.	
§63.9(j)	Change in Previous Information	Yes.	
§63.10(a)	Recordkeeping/Reporting—Applicability	Yes.	
§63.10(b)(1)	General Recordkeeping Requirements	Yes	§§63.567 and 63.5770 specify additional recordkeeping requirements.
§63.10(b)(2)(i)–(xi)	Recordkeeping Relevant to Startup, Shutdown, and Malfunction Periods and CMS	Yes	Applies only to sources with add-on controls.
§63.10(b)(2)(xii)–(xiv)	General Recordkeeping Requirements	Yes.	
§63.10(b)(3)	Recordkeeping Requirements for Applicability Determinations	Yes	§63.5686 specifies applicability determinations for non-major sources.
§63.10(c)	Additional Recordkeeping for Sources with CMS	Yes	Applies only to sources with add-on controls.
§63.10(d)(1)	General Reporting Requirements	Yes	§63.5764 specifies additional reporting requirements.
§63.10(d)(2)	Performance Test Results	Yes	§63.5764 specifies additional requirements for reporting performance test results.
§63.10(d)(3)	Opacity or Visible Emissions Observations	No	Subpart VVVV does not specify opacity or visible emission standards.
§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 sources with add-on controls.

Citation	Requirement	Applies to subpart VVVV	Explanation
§63.10(e)(1)	Additional CMS Reports—General	Yes	Applies only to sources with add-on controls.
§63.10(e)(2)	Reporting Results of CMS Performance Evaluations	Yes	Applies only to sources with add-on controls.
§63.10(e)(3)	Excess Emissions/CMS Performance Reports	Yes	Applies only to sources with add-on controls.
§63.10(e)(4)	COMS Data Reports	No	Subpart VVVV does not specify opacity or visible emission standards.
§63.10(f)	Recordkeeping/Reporting Waiver	Yes.	
§63.11	Control Device Requirements—Applicability	No	Facilities subject to subpart VVVV do not use flares as control devices.
§63.12	State Authority and Delegations	Yes	§63.5776 lists those sections of subpart A that are not delegated.
§63.13	Addresses	Yes.	
§63.14	Incorporation by Reference	Yes.	
§63.15	Availability of Information/Confidentiality	Yes.	