Table XI-1. Estimated Total Annualized Non-Recurring Fixed Cost to Comply with Proposed Limits

Code	Category	Proposed Limit	Estimated # Products Non-Compliant	Number of Manufacturers/Marketers with Non-compliant Products in Each Product Category	Estimated Total One-Time Cost to Reformulate All Non-Compliant Products (Dollars) (B1)	Estimated Annualized Fixed Cost to Reformulate All Non-Compliant Products (Dollars per Year) (B2) = (B1) x CRF
800	Clear Coatings	1.54	75	26	\$488,219.80	\$128,791.15
801	Flat Paint Products	1.21	91	32	\$555,863.70	\$146,635.44
802	Fluorescent Coatings	1.77	7	7	\$0.00	\$0.00
	Metallic Coatings	1.93	108	22	\$248,916.20	\$65,663.47
804	Nonflat Paint Products	1.40	503	25	\$1,187,095.00	\$313,152.67
	Primers	1.11	122	27	\$584,954.30	\$154,309.47
890	Ground Traffic/Marking Coatings	1.18	47	15	\$746,205.70	\$196,847.18
	Art Fixatives or Sealants	1.80	8	2	\$41,761.20	\$11,016.50
	Auto Body Primers	1.57	7	4	\$0.00	\$0.00
	Automotive Bumper and Trim Products	1.75	36	7	\$0.00	\$0.00
	Aviation or Marine Primers	1.98	0	0	\$0.00	\$0.00
	Aviation Propeller Coatings	2.47	0	0	\$0.00	\$0.00
	Corrosion Resistant Brass, Bronze, or Copper Coatings	1.78	1	1	\$0.00	\$0.00
	Exact Match Finishes: Engine Enamel	1.72	21	2	\$0.00	\$0.00
	Exact Match Finishes: Automotive	1.77	40	4	\$85,751.33	\$22,620.98
	Exact Match Finishes: Industrial	2.07	2	1	\$0.00	\$0.00
	Floral Sprays	1.68	3	2	\$200,000.00	\$52,759.50
	Glass Coatings	1.42	4	4	\$0.00	\$0.00
	High Temperature Coatings	1.83	37	11	\$200,000.00	\$52,759.50
	Hobby/Model/Craft Coatings: Enamel	1.47	2	2	\$0.00	\$0.00
	Hobby/Model/Craft Coatings: Lacquer Hobby/Model/Craft Coatings: Clear or Metallic	2.70 1.60	3	1	\$0.00 \$200,000.00	\$0.00 \$52,759.50
	Marine Spar Varnishes	0.87	4	4	\$200,000.00	\$52,759.50 \$0.00
			0	0		\$0.00 \$17,694.77
	Photographic Coatings Pleasure Craft Finish Primers, Surfacers or Undercoaters	0.99 1.05	2	1	\$67,077.09 \$0.00	
	Pleasure Craft Topcoats	0.59	0	0	\$0.00	\$0.00 \$0.00
	Shellac Sealers: Clear	0.59	0	0	\$0.00	\$0.00
	Shellac Sealers: Clear Shellac Sealers: Pigmented	0.98	0	0	\$0.00	\$0.00
	Slip-Resistant Coatings	2.41	0	0	\$0.00	\$0.00
	Spatter/Multicolor Coatings	1.07	10	1	\$0.00	\$0.00
	Vinyl/Fabric/Leather/Polycarbonate	1.54	4	4	\$386,565.20	\$101,974.93
	Webbing/Veil Coatings	0.83	0	0	\$0.00	\$0.00
	Weld-Through Primers	0.98	5	5	\$0.00	\$0.00
	Wood Stains	1.38	0	0	\$0.00	\$0.00
	Wood Touch-Up, Repair or Restoration Coatings	1.49	1	1	\$0.00	\$0.00
	Picco of Pote	40.000/			On Alband Table	04.040.005.05
	Discount Rate	10.00%			Grand Annual Total	\$1,316,985.05
	Project Horizon, yrs	5			(Dollars per Year)	UL
	Cost Recovery Factor (CRF)	0.2638				
	California-to-National Cost Adjustment Factor	0.13				

Table XI-2. Estimated Cost-Effectiveness for Proposed Limits

		Typical		Estimated	1997	Estimated Reformulation Cos	ts (in 1999 Dollars)	Estimated Cost-Effectiveness
		Non-Compliant	Proposed	# Products	Emissions	Annualized Non-Recurring Cost	Annual Recurring Cost	Annual Cost (in 1999 Dollars)
Code	Category	PWMIR	Limit	Non-Compliant	Reduction	\$/lb VOC Reduced	\$/lb VOC Reduced	\$/lb VOC Reduced
					Tons/Day	(D)	(E)	(F) = (D) + (E)
	Clear Coatings	1.79	1.54		0.17	\$0.13	\$0.29	\$0.42
	Flat Paint Products	1.57	1.21	91	0.33	\$0.08	\$0.74	\$0.82
	Fluorescent Coatings	1.78	1.77	7	0.03	\$0.00	\$0.02	\$0.02
	Metallic Coatings	2.19	1.93		0.21	\$0.06	\$0.00	\$0.06
	Nonflat Paint Products	1.50	1.40		1.37	\$0.04	\$0.89	\$0.93
	Primers	1.57	1.11		0.41	\$0.07	\$0.74	\$0.81
890	Ground Traffic/Marking Coatings	1.84	1.18	47	0.28	\$0.12	\$0.20	\$0.32
	Art Fixatives or Sealants	2.67	1.80	8	0.04	\$0.05	\$0.90	\$0.94
	Auto Body Primers	1.61	1.57	7	0.04	\$0.00	\$0.11	\$0.11
	Automotive Bumper and Trim Products	3.00	1.75		0.04	\$0.00	\$1.46	\$1.46
	Aviation or Marine Primers	*	1.98		0.00	\$0.00	\$0.00	\$0.00
	Aviation Propeller Coatings	*	2.47		0.00	\$0.00	\$0.00	\$0.00
	Corrosion Resistant Brass, Bronze, or Copper Coatings	*	1.78		0.00	\$0.04	\$0.00	\$0.04
	Exact Match Finishes: Engine Enamel	2.07	1.72		0.01	\$0.00	\$0.73	\$0.73
	Exact Match Finishes: Automotive	1.95	1.77	40	0.04	\$0.09	\$0.60	\$0.69
862	Exact Match Finishes: Industrial	2.59	2.07	2	0.00	\$0.00	\$0.00	\$0.00
	Floral Sprays	2.24	1.68		0.01	\$1.42	\$0.00	\$1.42
	Glass Coatings	*	1.42		0.00	\$0.04	\$0.00	\$0.04
	High Temperature Coatings	2.19	1.83	37	0.07	\$0.13	\$0.03	\$0.16
	Hobby/Model/Craft Coatings: Enamel	2.29	1.47		0.00	\$0.00	\$1.10	\$1.10
	Hobby/Model/Craft Coatings: Lacquer	2.89	2.70	3	0.00	\$0.00	\$0.00	\$0.00
	Hobby/Model/Craft Coatings: Clear or Metallic	2.19	1.60	4	0.01	\$1.04	\$0.00	\$1.04
920	Marine Spar Varnishes	*	0.87	0	0.00	\$0.00	\$0.00	\$0.00
930	Photographic Coatings	1.08	0.99	2	0.00	\$1.04	\$0.01	\$1.05
940	Pleasure Craft Finish Primers, Surfacers or Undercoaters	*	1.05	0	0.00	\$0.00	\$0.00	\$0.00
941	Pleasure Craft Topcoats	*	0.59	0	0.00	\$0.00	\$0.00	\$0.00
950	Shellac Sealers: Clear	*	0.98	0	0.00	\$0.00	\$0.00	\$0.00
951	Shellac Sealers: Pigmented	*	0.94	0	0.00	\$0.00	\$0.00	\$0.00
960	Slip-Resistant Coatings	N/A	2.41	0	0.00	\$0.00	\$0.00	\$0.00
970	Spatter/Multicolor Coatings	1.39	1.07	10	0.00	\$0.00	\$0.00	\$0.00
980	Vinyl/Fabric/Leather/Polycarbonate	2.47	1.54	4	0.03	\$0.53	\$1.03	\$1.56
	Webbing/Veil Coatings	*	0.83	0	0.00	\$0.00	\$0.00	\$0.00
	Weld-Through Primers	1.16	0.98	5	0.00	\$0.00	\$1.67	\$1.67
	Wood Stains	*	1.38	0	0.00	\$0.00	\$0.00	\$0.00
993	Wood Touch-Up, Repair or Restoration Coatings	*	1.49	1	0.00	\$0.04	\$0.00	\$0.04
			Total	1143	3.111250668		MIN (F)	\$0.00
* Informatio	n not provided to protect confidentiality of proprietary information.					<b>=</b>	MAX (F)	\$1.67
							Overall ERWA	\$0.74

Table XI-4. Estimated Impacts to Raw Materials Cost Per Unit

		Estimated Raw Material Costs, \$/Unit of Product					
		Baseline		Cost Difference from Baseline Pre-Reg			
Code	Category	Pre-Regulatory	Compliant	to Compliant			
		(G)	(H)	(I) = (H) - (G)			
800	Clear Coatings	\$0.11	\$0.13	\$0.			
801	Flat Paint Products	\$0.09	\$0.15	\$0.			
802	Fluorescent Coatings	\$0.09	\$0.09	\$0.			
803	Metallic Coatings	\$0.10	\$0.09	\$0			
804	Nonflat Paint Products	\$0.09	\$0.15	\$0			
	Primers	\$0.09	\$0.15	\$0			
890	Ground Traffic/Marking Coatings	\$0.09	\$0.12	\$0.			
810	Art Fixatives or Sealants	\$0.10	\$0.15	\$0			
820	Auto Body Primers	\$0.10		\$0			
	Automotive Bumper and Trim Products	\$0.07	\$0.16	\$0			
840	Aviation or Marine Primers	\$0.00	\$0.00	\$0			
841	Aviation Propeller Coatings	\$0.00	\$0.00	\$0			
850	Corrosion Resistant Brass, Bronze, or Copper Coatings	\$0.09	\$0.15	\$0			
860	Exact Match Finishes: Engine Enamel	\$0.10	\$0.12	\$0			
861	Exact Match Finishes: Automotive	\$0.10	\$0.13	\$0			
862	Exact Match Finishes: Industrial	\$0.10	\$0.12	\$0			
870	Floral Sprays	\$0.11	\$0.15	\$0			
880	Glass Coatings	\$0.09	\$0.15	\$0			
900	High Temperature Coatings	\$0.10	\$0.10	\$0			
910	Hobby/Model/Craft Coatings: Enamel	\$0.12	\$0.10	\$0			
911	Hobby/Model/Craft Coatings: Lacquer	\$0.12	\$0.10	\$0			
912	Hobby/Model/Craft Coatings: Clear or Metallic	\$0.13	\$0.19	\$0			
920	Marine Spar Varnishes	\$0.00	\$0.00	\$0			
930	Photographic Coatings	\$0.20	\$0.20	\$0			
940	Pleasure Craft Finish Primers, Surfacers or Undercoaters	\$0.00	\$0.00	\$0			
941	Pleasure Craft Topcoats	\$0.00	\$0.00	\$0			
950	Shellac Sealers: Clear	\$0.00	\$0.00	\$0			
951	Shellac Sealers: Pigmented	\$0.00	\$0.00	\$0			
960	Slip-Resistant Coatings	\$0.00	\$0.00	\$0			
	Spatter/Multicolor Coatings	\$0.08	\$0.10	\$0			
	Vinyl/Fabric/Leather/Polycarbonate	\$0.12	\$0.14	\$0			
	Webbing/Veil Coatings	\$0.00	\$0.00	\$0			
	Weld-Through Primers	\$0.08	\$0.09	\$0			
	Wood Stains	\$0.00	\$0.00	\$0			
	Wood Touch-Up, Repair or Restoration Coatings	\$0.09	\$0.15	\$0			
			MIN Increase	\$0			
			MAX Increase	\$6			

Table XI-6. Estimated Per-Unit Cost Increases from Both Annualized Non-Recurring and Annual Recurring Costs

					Estimated Per Unit Production Cost Increase			
		Sales-Wtd	Estimated VOC	Typical Unit	Estimated Unit	Annualized	Annual	Total
		Average VOC	Emissions,	Weight,	Sales per Day	Nonrecurring	Recurring	Increase
Code	Category	Content, %	Tons per Day	Ounces	in California	Cost per Unit	Cost per Unit	Cost per Unit
						(J)	(1)	(K)=(J)+(I)
	Clear Coatings	60	0.96	10.5	4875.493756	\$0.01	\$0.02	\$0.03
	Flat Paint Products	51	1.54	10.5	9203.144735	\$0.01	\$0.05	\$0.06
	Fluorescent Coatings	66	0.24	10.5	1108.225108	\$0.00	\$0.00	\$0.00
	Metallic Coatings	71	1.65	10.5	7061.032864	\$0.00	\$0.00	\$0.00
	Nonflat Paint Products	54	8.13	10.5	45858.41779	\$0.00	\$0.06	\$0.0
	Primers	51	1.82	10.5	10863.9513	\$0.01	\$0.05	\$0.00
890	Ground Traffic/Marking Coatings	53	1.70	10.5	9760.369896	\$0.01	\$0.03	\$0.04
	Art Fixatives or Sealants	70	0.23	10.5	1004.720276	\$0.00	\$0.06	\$0.06
	Auto Body Primers	51	0.25	10.5	1492.515902	\$0.00	\$0.00	\$0.00
	Automotive Bumper and Trim Products	84	0.30	10.5	1081.017986	\$0.00	\$0.09	\$0.09
	Aviation or Marine Primers	*	*	10.5	*	\$0.00	\$0.00	\$0.00
	Aviation Propeller Coatings	*	*	10.5	*	\$0.00	\$0.00	\$0.00
	Corrosion Resistant Brass, Bronze, or Copper Coatings	*	*	10.5	*	\$0.00	\$0.06	\$0.06
	Exact Match Finishes: Engine Enamel	49	0.18	10.5	1146.732158	\$0.00	\$0.02	\$0.02
	Exact Match Finishes: Automotive	54	0.39	10.5	2200.85758	\$0.00	\$0.03	\$0.04
	Exact Match Finishes: Industrial	47	0.07	10.5	426.133423	\$0.00	\$0.02	\$0.02
	Floral Sprays	42	0.23	10.5	1688.736857	\$0.01	\$0.04	\$0.05
	Glass Coatings	*	*	10.5	*	\$0.00	\$0.06	\$0.06
	High Temperature Coatings	68	0.48	10.5	2141.185673	\$0.01	\$0.00	\$0.0
	Hobby/Model/Craft Coatings: Enamel	69	0.10	10.5	456.3156715	\$0.00	\$0.00	\$0.00
	Hobby/Model/Craft Coatings: Lacquer	74	0.00	10.5	16.251551	\$0.00	\$0.00	\$0.00
	Hobby/Model/Craft Coatings: Clear or Metallic	78	0.11	10.5	426.0666299	\$0.04	\$0.06	\$0.10
	Marine Spar Varnishes	*	*	10.5	*	\$0.00	\$0.00	\$0.00
	Photographic Coatings	76	0.01	10.5	57.98041405	\$0.11	\$0.00	\$0.1
	Pleasure Craft Finish Primers, Surfacers or Undercoaters		*	10.5	*	\$0.00	\$0.00	\$0.00
	Pleasure Craft Topcoats	_		10.5	Î	\$0.00	\$0.00	\$0.00
	Shellac Sealers: Clear	_		10.5	Î	\$0.00	\$0.00	\$0.00
	Shellac Sealers: Pigmented		*	10.5	*	\$0.00	\$0.00	\$0.00
	Slip-Resistant Coatings	41	0.00	10.5	33.97762882	\$0.00	\$0.00	\$0.00
	Spatter/Multicolor Coatings	49	0.10	10.5	646.8415938	\$0.00	\$0.02	\$0.02
	Vinyl/Fabric/Leather/Polycarbonate	74	0.25	10.5	1011.740379	\$0.04	\$0.02	\$0.06
	Webbing/Veil Coatings		2.00	10.5	4 40 40005 40	\$0.00	\$0.00	\$0.00
	Weld-Through Primers	47	0.02	10.5	149.4293542	\$0.00	\$0.01	\$0.0
	Wood Stains	*	*	10.5		\$0.00		\$0.00
993	Wood Touch-Up, Repair or Restoration Coatings	*	*	10.5	*	\$0.00	\$0.06	\$0.00
Sum 102711.1385							Init Cost Increase	
' Informatio	on not provided to protect confidentiality of proprietary information.						Init Cost Increase Init Cost Increase	1
								\$0.0