

**Appendix A-I**  
**Substances for Which Emissions Must Be Quantified**

Emittent ID (Note [1])	Substance Name ( [Note 2])	Add Date ( [Note 3])	Carcinogen ( [Note 4])	Applicable Degree of Accuracy (lb/yr) ( [Note 5])	Source List(s) ( [Note 6])	Other Note(s)
75070	Acetaldehyde		c	20	1 2 3 4	
60355	Acetamide		c	2	1 2 3 4	
75058	Acetonitrile	06/91		200	1 2	
98862	Acetophenone	06/91		100	1 2	
53963	2-Acetylaminofluorene [PAH-Derivative, POM]		c	100	1 2 4 5	
107028	Acrolein			0.05	1 2	
79061	Acrylamide		c	0.01	1 2 3 4	
79107	Acrylic acid	06/91		5	1 2	
107131	Acrylonitrile		c	0.1	1 2 3 4 5	
107051	Allyl chloride		c	5	1 2 4	
7429905	Aluminum	06/91		100	1	
1344281	Aluminum oxide (fibrous forms)	06/91		100		7
117793	2-Aminoanthraquinone [PAH-Derivative, POM]		c	5	1 2 4 5	
92671	4-Aminobiphenyl [POM]		c	100	1 2 3 4 5	
61825	Amitrole		c	0.1	3 4 5	
7664417	Ammonia			200	1 2	
6484522	Ammonium nitrate	06/91		100	1	
7783202	Ammonium sulfate	06/91		100	1	
62533	Aniline	09/90	c	5	1 2 4	
90040	o-Anisidine		c	100	1 2 3 4 5	
-	Anthracene [PAH, POM], (see PAH)					
7440360	Antimony	06/91		1		7
*	Antimony compounds including but not limited to:	06/91		1	1 2	[7]
1309644	Antimony trioxide	09/90	c	1	1 2 3 4	[7]
7440382	Arsenic		c	0.01	1 2 3 4 5	
1016	Arsenic compounds (inorganic) including but not limited to:		c	0.01	1 2 3 4 5	[7]
7784421	Arsine			0.01	1 2	7 [7]
1017	Arsenic compounds (other than inorganic)	06/91		0.1	1	[7]
-	Asbestos (see Mineral fibers)					
7440393	Barium	06/91		1		7
*	Barium Compounds	06/91		1	1	[7]
-	Benz[a]anthracene [PAH, POM], (see PAH)					
71432	Benzene		c	2	1 2 3 4 5	
92875	Benzidine (and its salts) [POM]		c	0.0001	1 2 3 4 5	
1020	Benzidine-based dyes [POM] including but not limited to:		c	0.0001	1 2 3	
1937377	Direct Black 38 [PAH-Derivative, POM]		c	0.0001	1 2 4 5	
2602462	Direct Blue 6 [PAH-Derivative, POM]		c	0.0001	1 2 4 5	

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16071866	Direct Brown 95 (technical grade) [POM]	09/89	c	0.0001	1 2 4	
-	Benzo[a]pyrene [PAH, POM], (see PAH)					
-	Benzo[b]fluoranthene [PAH, POM], (see PAH)					
271896	Benzoofuran	06/91	c	100	4	
98077	Benzoic trichloride {Benzotrachloride}		c	10	1 2 4 5	
-	Benzo[j]fluoranthene [PAH, POM] (see PAH)					
-	Benzo[k]fluoranthene [PAH, POM] (see PAH)					
98884	Benzoyl chloride	06/91		100	1	
94360	Benzoyl peroxide	06/91		100		7
100447	Benzyl chloride		c	1	1 2 4	
7440417	Beryllium		c	0.001	1 2 3 4 5	
*	Beryllium compounds	09/89	c	0.001	1 2 3 4 5	[7]
92524	Biphenyl [POM]	06/91		0.5	1 2	
111444	Bis(2-chloroethyl) ether {DCEE}	09/89	c	0.05	1 2 4	
542881	Bis(chloromethyl) ether		c	0.001	1 2 3 4 5	
103231	Bis(2-ethylhexyl) adipate	06/91		100	1	
7726956	Bromine			0.5	2	
*	Bromine compounds (inorganic) including but not limited to:			100	1 2	[7]
7789302	Bromine pentafluoride	11/06		100		7
10035106	Hydrogen bromide	11/06		20		7
7758012	Potassium bromate			0.1	1 3 4	[7]
75252	Bromoform	06/91		100	1 2 4	
106990	1,3-Butadiene		c	0.1	1 2 3 4 5	
540885	t-Butyl acetate	11/06		200		7
141322	Butyl acrylate	06/91		100	1	
71363	n-Butyl alcohol	06/91		100	1	
78922	sec-Butyl alcohol	06/91		100	1	
75650	tert-Butyl alcohol	06/91		100	1	
85687	Butyl benzyl phthalate	06/91		100	1	
7440439	Cadmium		c	0.01	1 2 3 4 5	
*	Cadmium compounds		c	0.01	1 2 3 4 5	[7]
156627	Calcium cyanamide	06/91		100	1 2	
105602	Caprolactam	06/91		100	1 2	
2425061	Captafol	09/89	c	100	4	
133062	Captan	09/90	c	100	1 2 4	
63252	Carbaryl [PAH-Derivative, POM]	06/91		100	1 2	
1050	Carbon black extracts		c	2	1 3 4	

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75150	Carbon disulfide	09/89		200	1 2 4	
56235	Carbon tetrachloride		c	1	1 2 3 4 5	
463581	Carbonyl sulfide	06/91		100	1 2	
1055	Carrageenan (degraded)		c	100	3 4	
120809	Catechol	06/91		100	1 2	
133904	Chloramben	06/91		100	1 2	
57749	Chlordane	09/89	c	10	1 2 4	
108171262	Chlorinated paraffins (average chain length, C12; approximately 60% Chlorine by weight)	09/89	c	2	3 4 5	
7782505	Chlorine			0.5	1 2	
10049044	Chlorine dioxide	06/91		1	1	
79118	Chloroacetic acid	06/91		100	1 2	
532274	2-Chloroacetophenone	06/91		0.1	1 2	
106478	p-Chloroaniline	07/96	c	100	4	7
1058	Chlorobenzenes including but not limited to:	06/91		100	1	
108907	Chlorobenzene			200	1 2	
25321226	Dichlorobenzenes (mixed isomers) including:	06/91		100	1	7
95501		06/91		200	1	7
541731	1,2-Dichlorobenzene	06/91		100	1	7
106467	1,3-Dichlorobenzene		c	5	1 2 3 5	
120821	p-Dichlorobenzene {1,4-Dichlorobenzene}	06/91		200	1 2	
510156	1,2,4-Trichlorobenzene					
510156	Chlorobenzilate [POM] {Ethyl-4,4'-dichlorobenzilate}	09/90	c	100	1 2 4	
67663	Chloroform		c	10	1 2 3 4 5	
107302	Chloromethyl methyl ether (technical grade)		c	100	1 2 4 5	
1060	Chlorophenols including but not limited to:		c	100	1 3	
95578	2-Chlorophenol	11/06		10	1 3	
120832	2,4-Dichlorophenol	06/91	c	100	1	7
87865	Pentachlorophenol	09/90	c	10	1 2 4	
25167833	Tetrachlorophenols including but not limited to:	11/06		10		7
58902		07/96	c	100	1	7
95954	2,3,4,6-Tetrachlorophenol	06/91	c	100	1 2	
88062	2,4,5-Trichlorophenol		c	2	1 2 4	
95830	2,4,6-Trichlorophenol					
95830	4-Chloro-o-phenylenediamine		c	10	3 4 5	
76062	Chloropicrin			2		7
126998	Chloroprene			5	1 2	
95692	p-Chloro-o-toluidine		c	0.5	3 4	
7440473	Chromium	06/91		0.001		7
*	Chromium compounds (other than hexavalent)	06/91		0.001	1 2	[7]
18540299	Chromium, hexavalent (and compounds) including but not limited to:		c	0.0001	1 2 3 4 5	[7]

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10294403	Barium chromate	06/91	c	0.001	1 2 5	[7]
13765190	Calcium chromate	06/91	c	0.001	1 2 5	[7]
1333820	Chromium trioxide	06/91	c	0.0001	1 2 5	[7]
7758976	Lead chromate	06/91	c	0.001	1 2 5	[7]
10588019	Sodium dichromate	06/91	c	0.0001	1 2 5	[7]
7789062	Strontium chromate	06/91	c	0.001	1 2 5	[7]
-	Chrysene [PAH, POM], (see PAH)					
7440484	Cobalt	06/91		0.5		7
*	Cobalt compounds	06/91		0.5	1 2	[7]
1066	Coke oven emissions		c	0.05	1 2 3 4 5	
7440508	Copper			0.1	2	
*	Copper compounds	09/89		0.1	1 2	[7]
1070	Creosotes		c	0.05	1 3 4	
120718	p-Cresidine		c	1	3 4 5	
1319773	Cresols (mixtures of) {Cresylic acid} including:			5	1 2	
108394	m-Cresol	06/91		5	1 2	
95487	o-Cresol	06/91		5	1 2	
106445	p-Cresol	06/91		5	1 2	
4170303	Crotonaldehyde	07/96	c	50		7
98828	Cumene	06/91		200	1 2	
80159	Cumene hydroperoxide	06/91		100	1	
135206	Cupferron		c	0.5	4 5	
1073	Cyanide compounds (inorganic) including but not limited to:	06/91		0.05	1 2	[8]
74908	Hydrocyanic acid			10	2	
110827	Cyclohexane	06/91		200	1	
108930	Cyclohexanol	07/96		200		7
66819	Cycloheximide			2		6
	Decabromodiphenyl oxide [POM] (see Polybrominated diphenyl ethers)	06/91				
1075	Dialkylnitrosamines including but not limited to:			0.001	1	
924163	N-Nitrosodi-n-butylamine		c	0.0001	1 3 4 5	
1116547	N-Nitrosodiethanolamine		c	100	1 3 4 5	
55185	N-Nitrosodiethylamine		c	0.001	1 3 4 5	
62759	N-Nitrosodimethylamine		c	0.01	1 2 3 4 5	
621647	N-Nitrosodi-n-propylamine		c	0.01	1 3 4 5	
10595956	N-Nitrosomethylethylamine		c	0.001	1 3 4	
615054	2,4-Diaminoanilole		c	5	3 4	
1078	Diaminotoluenes (mixed isomers) including but not limited to:	09/90	c	100	1 4	
95807	2,4-Diaminotoluene {2,4-Toluene diamine}		c	0.05	1 2 3 4 5	
334883	Diazomethane	06/91	c	5	1 2	

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226368	Dibenz[a,h]acridine [POM]		c	0.5	1 2 3 4 5	
224420	Dibenz[a,j]acridine [POM]		c	0.5	1 2 3 4 5	
-	Dibenz[a,h]anthracene [PAH, POM], (see PAH)					
194592	7H-Dibenzo[c,g]carbazole		c	0.05	1 2 3 4 5	
-	Dibenzo[a,e]pyrene [PAH, POM], (see PAH)					
-	Dibenzo[a,h]pyrene [PAH, POM], (see PAH)					
-	Dibenzo[a,i]pyrene [PAH, POM], (see PAH)					
-	Dibenzo[a,l]pyrene [PAH, POM], (see PAH)					
132649	Dibenzofuran [POM]	06/91		100	1 2	
-	Dibenzofurans (chlorinated) (see Polychlorinated dibenzofurans) [POM]					
96128	1,2-Dibromo-3-chloropropane {DBCP}		c	0.01	1 2 3 4 5	
96139	2,3-Dibromo-1-propanol	07/96	c	50	4	
84742	Dibutyl phthalate	06/91		100	1 2	
-	p-Dichlorobenzene (1,4-Dichlorobenzene) (see Chlorobenzenes)					
91941	3,3'-Dichlorobenzidine [POM]		c	0.1	1 2 3 4 5	
72559	Dichlorodiphenyldichloroethylene {DDE} [POM]	09/89	c	100	1 2 4	
75343	1,1-Dichloroethane {Ethylidene dichloride}	09/90	c	20	1 2 4	
94757	Dichlorophenoxyacetic acid, salts and esters {2,4-D}	06/91		100	1 2	
78875	1,2-Dichloropropane {Propylene dichloride}	09/90	c	20	1 2 4	
542756	1,3-Dichloropropene		c	10	1 2 3 4 5	
62737	Dichlorovos {DDVP}	09/89	c	0.5	1 2 4	
115322	Dicofol [POM]	06/91		100	1 2	
--	Diesel engine exhaust	09/90	c		1 3 4	[9]
9901	Diesel engine exhaust, particulate matter {Diesel PM}	09/90	c	0.1	1 3 4	[9]
9902	Diesel engine exhaust, total organic gas	09/90	c	10	1 3 4	[9]
#	Diesel fuel (marine)	06/91	c			
111422	Diethanolamine	06/91		20	1 2	
117817	Di(2-ethylhexyl) phthalate {DEHP}		c	20	1 2 3 4 5	
64675	Diethyl sulfate		c	100	1 2 3 4 5	
119904	3,3'-Dimethoxybenzidine [POM]		c	100	1 2 3 4 5	
60117	4-Dimethylaminoazobenzene [POM]		c	0.01	1 2 3 4 5	
121697	N,N-Dimethylaniline	06/91		200	1 2	
57976	7,12-Dimethylbenz[a]anthracene [PAH-Derivative, POM]	09/90	c	0.0001	1 2 4	
119937	3,3'-Dimethylbenzidine {o-Tolidine} [POM]		c	10	1 2 3 4 5	
79447	Dimethyl carbamoyl chloride		c	100	1 2 3 4 5	
68122	Dimethyl formamide	09/90	c	100	1 2 3	
57147	1,1-Dimethylhydrazine		c	0.1	1 2 3 4 5	
131113	Dimethyl phthalate	06/91		50	1 2	

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77781	Dimethyl sulfate		c	0.01	1 2 3 4 5	
534521	4,6-Dinitro-o-cresol (and salts)	06/91		100	1 2	
51285	2,4-Dinitrophenol	06/91		100	1 2	
42397648	1,6-Dinitropyrene [PAH-Derivative, POM]	06/91	c	0.001	1 2 3 4	
42397659	1,8-Dinitropyrene [PAH-Derivative, POM]	06/91	c	0.05	1 2 3 4	
25321146	Dinitrotoluenes (mixed isomers) including but not limited to:	06/91		100		7
121142	2,4-Dinitrotoluene	09/89	c	0.5	1 2 4	
606202	2,6-Dinitrotoluene	06/91		100		7
123911	1,4-Dioxane		c	5	1 2 3 4 5	
-	Dioxins (Chlorinated dibenzodioxins) (see Polychlorinated dibenzo-p-dioxins) [POM]					
630933	Diphenylhydantoin [POM]		c	100	1 2 4	
122667	1,2-Diphenylhydrazine {Hydrazobenzene} [POM]		c	100	1 2 4 5	
1090	Environmental Tobacco Smoke		c	2	1 3 4	
106898	Epichlorohydrin		c	2	1 2 3 4 5	
106887	1,2-Epoxybutane	06/91		100	1 2	
1091	Epoxy resins	09/89		100		6
140885	Ethyl acrylate		c	200	1 2 3 4 5	
100414	Ethyl benzene	06/91		200	1 2	
75003	Ethyl chloride {Chloroethane}			200	1 2 4	
-	Ethyl-4,4'-dichlorobenzilate (see Chlorobenzilate)					
74851	Ethylene	06/91		200		7
106934	Ethylene dibromide {EDB, 1,2-Dibromoethane}		c	0.5	1 3 4 5 6	
107062	Ethylene dichloride {EDC, 1,2-Dichloroethane}		c	2	1 2 3 4 5	
107211	Ethylene glycol	06/91		200	1 2	
151564	Ethyleneimine {Aziridine}	06/91		100	1 2	
75218	Ethylene oxide		c	0.5	1 2 3 4 5 6	
96457	Ethylene thiourea		c	2	1 2 3 4 5	
1101	Fluorides and compounds including but not limited to:	09/89		100	2	
7664393	Hydrogen fluoride			50	1 2	7
1103	Fluorocarbons (brominated)			200		6 [10]
1104	Fluorocarbons (chlorinated) including but not limited to:			200	1	6 [10]
76131	Chlorinated fluorocarbon {CFC-113} {1,1,2-Trichloro-1,2,2-trifluoroethane}			200	1 2	6
75456	Chlorodifluoromethane {Freon 22}	07/96		200	1	6 7
75718	Dichlorodifluoromethane {Freon 12}	11/06		200		7
75434	Dichlorofluoromethane {Freon 21}	07/96		200	1	6 7
75694	Trichlorofluoromethane {Freon 11}	07/96		200	1	6 7
50000	Formaldehyde		c	5	1 2 3 4 5 6	
110009	Furan	07/96	c	5		4

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--	Gasoline engine exhaust including but not limited to:	09/89	c		3	[9]
--	Gasoline engine exhaust (condensates & extracts)	06/91	c		4	[9]
9910	Gasoline engine exhaust, particulate matter	09/90	c	100	3 4	[9]
9911	Gasoline engine exhaust, total organic gas	09/90	c	100	3 4	[9]
1110	Gasoline vapors		c	200	1 2 3 4	[11]
111308	Glutaraldehyde			0.1	1	6
1115	Glycol ethers and their acetates including but not limited to:			100	1 2	6
111466	Diethylene glycol	09/90		100	1	6
111966	Diethylene glycol dimethyl ether	09/90		100	1 2	6
112345	Diethylene glycol monobutyl ether	09/90		100	1 2	6
111900	Diethylene glycol monoethyl ether	09/90		100	1 2	6
111773	Diethylene glycol monomethyl ether	09/90		100	1 2	6
25265718	Dipropylene glycol	09/90		100	1	6
34590948	Dipropylene glycol monomethyl ether	09/90		100	1	6
629141	Ethylene glycol diethyl ether	09/90		100	1 2	6
110714	Ethylene glycol dimethyl ether	09/90		100	1 2	6
111762	Ethylene glycol monobutyl ether	09/90		200	1 2	6
110805	Ethylene glycol monoethyl ether	09/89		50	1 2	6
111159	Ethylene glycol monoethyl ether acetate	09/90		100	1 2	6
109864	Ethylene glycol monomethyl ether	09/89		10	1 2	6
110496	Ethylene glycol monomethyl ether acetate	09/90		200	1 2	6
2807309	Ethylene glycol monopropyl ether	09/90		100	1 2	6
107982	Propylene glycol monomethyl ether	09/90		200	1	6
108656	Propylene glycol monomethyl ether acetate	09/90		100	1	6
112492	Triethylene glycol dimethyl ether	09/90		100	1 2	6
76448	Heptachlor	09/89	c	100	1 2 4	
118741	Hexachlorobenzene		c	0.1	1 2 3 5	
87683	Hexachlorobutadiene	06/91		0.1	1 2	
608731	Hexachlorocyclohexanes (mixed or technical grade) including but not limited to:		c	0.05	1 3 4 5	
319846	alpha-Hexachlorocyclohexane	07/96	c	0.1	1 3 4 5 7	
319857	beta-Hexachlorocyclohexane	07/96	c	0.1	1 3 4 5 7	
58899	Lindane (gamma-Hexachlorocyclohexane)	09/90	c	0.1	1 2 4	
77474	Hexachlorocyclopentadiene			2	1 2	
67721	Hexachloroethane	09/90	c	200	1 2 4	
680319	Hexamethylphosphoramide		c	100	1 2 3 4 5	
110543	Hexane	06/91		200	1 2	
302012	Hydrazine		c	0.01	1 2 3 4 5	
7647010	Hydrochloric acid			20	1 2	

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-	Hydrocyanic acid (see Cyanide compounds)					
7783064	Hydrogen sulfide			5	1 2	
123319	Hydroquinone	06/91		100	1 2	
-	Indeno[1,2,3-cd]pyrene [PAH, POM], (see PAH)					
13463406	Iron pentacarbonyl	07/96		5		7
1125	Isocyanates including but not limited to:			0.05		6
822060	Hexamethylene-1,6-diisocyanate	06/91		0.05	1 2	
101688	Methylene diphenyl diisocyanate {MDI} [POM]	06/91		0.1	1 2	
624839	Methyl isocyanate			1	1 2	
-	Toluene-2,4-diisocyanate (see Toluene diisocyanates)					
-	Toluene-2,6-diisocyanate (see Toluene diisocyanates)					
78591	Isophorone	06/91		200	1 2	
78795	Isoprene, except from vegetative emission sources	07/96	c	200	3	
67630	Isopropyl alcohol	06/91		200	1	
80057	4,4'-Isopropylidenediphenol [POM]	06/91		100	1 2	
7439921	Lead		c	0.5	1 4 6	
1128	Lead compounds (inorganic) including but not limited to:		c	0.5	1 3	[7]
301042	Lead acetate		c	1	1 2 4 5	[7] [12]
-	Lead chromate (see Chromium, hexalent)					
7446277	Lead phosphate		c	2	1 4 5	[7]
1335326	Lead subacetate	09/90	c	2	1 2 4	[7] [12]
1129	Lead compounds (other than inorganic)	06/91		5	1 2	[7]
108316	Maleic anhydride			0.5	1 2	
7439965	Manganese			0.1	1 2	
*	Manganese compounds	09/89		0.1	1 2	[7]
7439976	Mercury			1	1 2 4 6	
*	Mercury compounds including but not limited to:	09/89		1	1 2 4	[7]
7487947	Mercuric chloride			1	2	[7]
593748	Methyl mercury {Dimethylmercury}			1	2	[7]
67561	Methanol			200	1 2	
72435	Methoxychlor [POM]	06/91		100	1 2	
75558	2-Methylaziridine {1,2-Propyleneimine}		c	100	1 2 3 4	
74839	Methyl bromide {Bromomethane}			20	1 2	6
74873	Methyl chloride {Chloromethane}	06/91		20	1 2	
71556	Methyl chloroform {1,1,1-Trichloroethane}			200	1 2	6
56495	3-Methylcholanthrene [PAH-Derivative, POM]	09/90	c	0.001	1 2 4	
3697243	5-Methylchrysene [PAH-Derivative, POM]		c	0.05	1 2 3 4 5	
101144	4,4'-Methylene bis(2-chloroaniline) {MOCA} [POM]		c	0.1	1 2 3 4 5	
75092	Methylene chloride {Dichloromethane}		c	50	1 2 3 4 5 6	



**Appendix A-I**  
**Substances for Which Emissions Must Be Quantified**

Emittent ID (Note [1])	Substance Name ( [Note 2])	Add Date ( [Note 3])	Carcinogen ( [Note 4])	Applicable Degree of Accuracy (lb/yr) ( [Note 5])	Source List(s) ( [Note 6])	Other Note(s)
101779	4,4'-Methylenedianiline (and its dichloride) [POM]		c	0.1	1 2 3 4 5	
78933	Methyl ethyl ketone {2-Butanone}	06/91		200	1 2	
60344	Methyl hydrazine	06/91		100	1 2	
74884	Methyl iodide {Iodomethane}		c	100	1 2 4 5	
108101	Methyl isobutyl ketone {Hexone}	06/91		20	1 2	
75865	2-Methylacetonitrile {Acetone cyanohydrin}	07/96		50		7
80626	Methyl methacrylate			200	1 2	6
109068	2-Methylpyridine	07/96		100		7
1634044	Methyl tert-butyl ether	06/91		200	1 2	
90948	Michler's ketone [POM]		c	0.1	1 2 4 5	
1136	Mineral fibers (fine mineral fibers which are man-made, and are airborne particles of a respirable size greater than 5 microns in length, less than or equal to 3.5 microns in diameter, with a length to diameter ratio of 3:1) including but not limited to:	06/91	c	100	1 2	7
1056	Ceramic fibers	09/89	c	100	1 2 3 4	
1111	Glasswool fibers	09/89	c	100	1 2 3 4	
1168	Rockwool	09/89	c	100	1 2 3	
1181	Slagwool	09/89	c	100	1 2 3	
1135	Mineral fibers (other than man-made) including but not limited to:			100	2	7
1332214	Asbestos		c	0.0001	1 2 3 4 5	
12510428	Erionite		c	100	2 3 4	
1190	Talc containing asbestiform fibers		c	100	2 3 4	
1313275	Molybdenum trioxide	06/91		100	1	
-	Naphthalene [PAH, POM], (see PAH)					
7440020	Nickel		c	0.1	1 2 3 4 5	
*	Nickel compounds including but not limited to:		c	1	1 2 3 4 5	[7]
373024	Nickel acetate	06/91	c	0.1	1 2 5	[7]
3333673	Nickel carbonate	06/91	c	0.1	1 2 5	[7]
13463393	Nickel carbonyl		c	0.1	1 2 4 5	[7]
12054487	Nickel hydroxide	06/91	c	0.1	1 2 5	[7]
1271289	Nickelocene	06/91	c	0.1	1 2 5	[7]
1313991	Nickel oxide	06/91	c	0.1	1 2 5	[7]
12035722	Nickel subsulfide		c	0.1	1 2 4 5	[7]
1146	Nickel refinery dust from the pyrometallurgical process	09/89	c	0.1	4	
7697372	Nitric acid	06/91		50	1	
139139	Nitrilotriacetic acid		c	100	1 4 5	
602879	5-Nitroacenaphthene [PAH-Derivative, POM]	11/06	c	2	1 2 3 4	
98953	Nitrobenzene			0.5	1 2	
92933	4-Nitrobiphenyl [POM]	09/89	c	100	1 2 4	

**Appendix A-I**  
**Substances for Which Emissions Must Be Quantified**

Emittent ID (Note [1])	Substance Name ( [Note 2])	Add Date ( [Note 3])	Carcinogen ( [Note 4])	Applicable Degree of Accuracy (Ib/yr) ( [Note 5])	Source List(s) ( [Note 6])	Other Note(s)
7496028	6-Nitrochrysene [PAH-Derivative, POM]	06/91	c	0.001	1 2 3 4	
607578	2-Nitrofluorene [PAH-Derivative, POM]	06/91	c	5	1 2 3 4	
302705	Nitrogen mustard N-oxide		c	0.05	3 4	
100027	4-Nitrophenol	06/91		100	1 2	
79469	2-Nitropropane		c	0.01	1 2 3 4 5	
5522430	1-Nitropyrene [PAH-Derivative, POM]	06/91	c	0.5	1 2 3 4	
57835924	4-Nitropyrene [PAH-Derivative, POM]	11/06	c	1	4	
86306	N-Nitrosodiphenylamine	11/06	c	10	1 2 3 4	
156105	p-Nitrosodiphenylamine [POM]		c	5	1 2 4 5	
684935	N-Nitroso-N-methylurea		c	100	1 2 4 5	
59892	N-Nitrosomorpholine		c	0.01	1 2 3 4 5	
100754	N-Nitrosopiperidine		c	1	3 4 5	
930552	N-Nitrosopyrrolidine		c	0.05	3 4 5	
*	Oleum (see Sulfuric acid and oleum)					
--	PAHs (Polycyclic aromatic hydrocarbons) [POM] including but not limited to:				1 2	[13]
1151	PAHs, total, w/o individ. components reported [PAH, POM]			50	1 2	
1150	PAHs, total, with individ. components also reported [PAH, POM]			50	1 2	
83329	Acenaphthene [PAH, POM]	07/96		50	1	
208968	Acenaphthylene [PAH, POM]	07/96		50	1	
120127	Anthracene [PAH, POM]	06/91		50	1 2	7
56553	Benz[a]anthracene [PAH, POM]		c	0.5	1 2 3 4 5	
50328	Benzo[a]pyrene [PAH, POM]		c	0.05	1 2 3 4 5	
205992	Benzo[b]fluoranthene		c	0.5	1 2 3 4 5	
192972	Benzo[e]pyrene [PAH, POM]	07/96		0.5	1	
191242	Benzo[g,h,i]perylene [PAH, POM]	07/96		0.5	1	
205823	Benzo[j]fluoranthene [PAH, POM]		c	0.5	1 2 3 4 5	
207089	Benzo[k]fluoranthene [PAH, POM]		c	0.5	1 2 3 4 5	
218019	Chrysene [PAH, POM]	09/90	c	5	1 2 4	
53703	Dibenz[a,h]anthracene [PAH, POM]		c	0.1	1 2 3 4 5	
192654	Dibenzo[a,e]pyrene [PAH, POM]		c	0.05	1 2 3 4 5	
189640	Dibenzo[a,h]pyrene [PAH, POM]		c	0.001	1 2 3 4 5	
189559	Dibenzo[a,i]pyrene [PAH, POM]		c	0.001	1 2 3 4 5	
191300	Dibenzo[a,l]pyrene [PAH, POM]		c	0.001	1 2 3 4 5	
206440	Fluoranthene [PAH, POM]	07/96	c	0.5	1	
86737	Fluorene [PAH, POM]	07/96	c	0.5	1	
193395	Indeno[1,2,3-cd]pyrene [PAH, POM]		c	0.5	1 2 3 4 5	
91576	2-Methyl naphthalene [PAH, POM]	07/96	c	50	1	
91203	Naphthalene [PAH, POM]		c	0.1	1 2	
198550	Perylene [PAH, POM]	07/96	c	0.5	1	

**Appendix A-I**  
**Substances for Which Emissions Must Be Quantified**

Emittent ID (Note [1])	Substance Name ( [Note 2])	Add Date ( [Note 3])	Carcinogen ( [Note 4])	Applicable Degree of Accuracy (lb/yr) ( [Note 5])	Source List(s) ( [Note 6])	Other Note(s)
85018	Phenanthrene [PAH, POM]	07/96	c	0.5	1	
129000	Pyrene [PAH, POM]	07/96	c	0.5	1	
#	PAH-Derivatives (Polycyclic aromatic hydrocarbon derivatives) [POM] (including but not limited to those substances listed in Appendix A with the bracketed designation [PAH-Derivative, POM])	06/91				[14]
56382	Parathion	06/91		100	1 2	
1336363	PCBs (Polychlorinated biphenyls), total [POM] including but not limited to:		c	0.01	1 2 3 4 5 6	
32598133	3,3',4,4'-TETRACHLOROBIPHENYL (PCB 77)	11/06	c	0.01	2 3 4 5	
70362504	3,4,4',5-TETRACHLOROBIPHENYL (PCB 81)	11/06	c	0.01	2 3 4 5	
32598144	2,3,3',4,4'-PENTACHLOROBIPHENYL (PCB 105)	11/06	c	0.01	2 3 4 5	
74472370	2,3,4,4',5-PENTACHLOROBIPHENYL (PCB 114)	11/06	c	0.002	2 3 4 5	
31508006	2,3',4,4',5-PENTACHLOROBIPHENYL (PCB 118)	11/06	c	0.01	2 3 4 5	
65510443	2,3',4,4',5'-PENTACHLOROBIPHENYL (PCB 123)	11/06	c	0.01	2 3 4 5	
57465288	3,3',4,4',5-PENTACHLOROBIPHENYL (PCB 126)	11/06	c	0.00001	2 3 4 5	
38380084	2,3,3',4,4',5-HEXACHLOROBIPHENYL (PCB 156)	11/06	c	0.002	2 3 4 5	
69782907	2,3,3',4,4',5'-HEXACHLOROBIPHENYL (PCB 157)	11/06	c	0.002	2 3 4 5	
52663726	2,3',4,4',5'-HEXACHLOROBIPHENYL (PCB 167)	11/06	c	0.1	2 3 4 5	
32774166	3,3',4,4',5,5'-HEXACHLOROBIPHENYL (PCB 169)	11/06	c	0.0001	2 3 4 5	
39635319	2,3,3',4,4',5,5'-HEPTACHLOROBIPHENYL (PCB 189)	11/06	c	0.01	2 3 4 5	
82688	Pentachloronitrobenzene {Quintobenzene}	06/91		100	1 2	
79210	Peracetic acid	06/91		100	1	
127184	Perchloroethylene {Tetrachloroethene}		c	5	1 2 3 4 5 6	
2795393	Perfluorooctanoic acid {PFOA} and its salts, esters, and sulfonates	11/06		10		7
108952	Phenol			200	1 2	
106503	p-Phenylenediamine	06/91		100	1 2	
90437	2-Phenylphenol [POM]	06/91		100	1 2	
75445	Phosgene			2	1 2	
7723140	Phosphorus			0.1	1 2	
--	Phosphorus compounds:	09/89			2	
7803512	Phosphine			0.01	1 2	7
7664382	Phosphoric acid	09/89		50	1 2	
10025873	Phosphorus oxychloride	09/89		0.1	2	
10026138	Phosphorus pentachloride	09/89		0.1	2	
1314563	Phosphorus pentoxide	09/89		0.1	2	
7719122	Phosphorus trichloride	09/89		0.1	2	
126738	Tributyl phosphate	09/89		100	2	
78400	Triethyl phosphine	09/89		100	2	
512561	Trimethyl phosphate	09/89		100	2	
78308	Triorthocresyl phosphate [POM]	09/89		0.5	1 2	

**Appendix A-I**  
**Substances for Which Emissions Must Be Quantified**

Emittent ID (Note [1])	Substance Name ( [Note 2])	Add Date ( [Note 3])	Carcinogen ( [Note 4])	Applicable Degree of Accuracy (lb/yr) ( [Note 5])	Source List(s) ( [Note 6])	Other Note(s)
115866	Triphenyl phosphate [POM]	09/89		100	1 2	
101020	Triphenyl phosphite [POM]	09/89		100	1 2	
85449	Phthalic anhydride			0.01	1 2	
2222	Polybrominated diphenyl ethers {PBDEs}, including but not limited to:	11/06		1		7
1163195	Decabromodiphenyl oxide [POM]	06/91		1	1 2	
--	Polychlorinated dibenzo-p-dioxins {PCDDs or Dioxins} [POM] including but not limited to:		c		1 2	
1086	Dioxins, total, w/o individ. isomers reported {PCDDs} [POM]		c	0.000001	1 2	
1085	Dioxins, total, with individ. isomers also reported {PCDDs} [POM]		c	0.000001	1 2	
1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin {TCDD} [POM]		c	0.000001	1 2 3 4 5	
40321764	1,2,3,7,8-Pentachlorodibenzo-p-dioxin [POM]		c	0.000001	1 2	
39227286	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin [POM]		c	0.000001	1 2 4	
57653857	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin [POM]		c	0.000001	1 2	
19408743	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin [POM]		c	0.000001	1 2	
35822469	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin [POM]		c	0.000001	1 2	
3268879	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin [POM]	07/96	c	0.000001	1 2	
41903575	Total Tetrachlorodibenzo-p-dioxin [POM]	07/96	c	0.000001	1 2	
36088229	Total Pentachlorodibenzo-p-dioxin [POM]	07/96	c	0.000001	1 2	
34465468	Total Hexachlorodibenzo-p-dioxin [POM]	07/96	c	0.000001	1 2	
37871004	Total Heptachlorodibenzo-p-dioxin [POM]	07/96	c	0.000001	1 2	
--	Polychlorinated dibenzofurans {PCDFs or Dibenzofurans} [POM] including but not limited to:		c		1 2	
1080	Dibenzofurans (Polychlorinated dibenzofurans) {PCDFs} [POM]		c	0.000001	1 2	
51207319	2,3,7,8-Tetrachlorodibenzofuran [POM]		c	0.000001	1 2	
57117416	1,2,3,7,8-Pentachlorodibenzofuran [POM]		c	0.000001	1 2	
57117314	2,3,4,7,8-Pentachlorodibenzofuran [POM]		c	0.000001	1 2	
70648269	1,2,3,4,7,8-Hexachlorodibenzofuran [POM]		c	0.000001	1 2	
57117449	1,2,3,6,7,8-Hexachlorodibenzofuran [POM]		c	0.000001	1 2	
72918219	1,2,3,7,8,9-Hexachlorodibenzofuran [POM]		c	0.000001	1 2	
60851345	2,3,4,6,7,8-Hexachlorodibenzofuran [POM]		c	0.000001	1 2	
67562394	1,2,3,4,6,7,8-Heptachlorodibenzofuran [POM]		c	0.000001	1 2	
55673897	1,2,3,4,7,8,9-Heptachlorodibenzofuran [POM]		c	0.000001	1 2	
39001020	1,2,3,4,6,7,8,9-Octachlorodibenzofuran [POM]	07/96	c	0.000001	1 2	
55722275	Total Tetrachlorodibenzofuran [POM]	07/96	c	0.000001	1 2	
30402154	Total Pentachlorodibenzofuran [POM]	07/96	c	0.000001	1 2	
55684941	Total Hexachlorodibenzofuran [POM]	07/96	c	0.000001	1 2	
38998753	Total Heptachlorodibenzofuran [POM]	07/96	c	0.000001	1 2	

**Appendix A-I**  
**Substances for Which Emissions Must Be Quantified**

Emittent ID (Note [1])	Substance Name ( [Note 2])	Add Date ( [Note 3])	Carcinogen ( [Note 4])	Applicable Degree of Accuracy (lb/yr) ( [Note 5])	Source List(s) ( [Note 6])	Other Note(s)
#	POM (Polycyclic organic matter) (including but not limited to those substances listed in Appendix A with the bracketed designation of [POM], [PAH, POM], or [PAH-Derivative, POM])	09/89			1 2	[15]
1120714	1,3-Propane sultone		c	0.05	1 2 3 4 5	
57578	beta-Propiolactone		c	10	1 2 3 4 5	
123386	Propionaldehyde	06/91		200	1 2	
114261	Propoxur {Baygon}	06/91		100	1 2	
115071	Propylene			200	1 2	
75569	Propylene oxide		c	10	1 2 3 4 5	
-	1,2-Propyleneimine (see 2-Methylaziridine)					
110861	Pyridine	06/91		100		7
91225	Quinoline	06/91		100	1 2	
106514	Quinone	06/91		100	1 2	
1165	Radionuclides including but not limited to:		c	100	1 2 4	[16]
24267569	Iodine-131	09/89	c	100	1 2 4	
1166	Radon and its decay products	09/89	c	100	1 4	
50555	Reserpine [POM]		c	100	1 2 4 5	
#	Residual (heavy) fuel oils	06/91	c			
7782492	Selenium			0.5	2	
*	Selenium compounds including but not limited to:			0.5	1 2	[7]
7783075	Hydrogen selenide	11/06		0.1		7
7446346	Selenium sulfide	09/90	c	0.1	2 4 5	[7]
1175	Silica, crystalline (respirable)			0.1	1 3 4	
7440224	Silver	06/91		2		7
*	Silver compounds	06/91		2	1	[7]
1310732	Sodium hydroxide			2	1 2	
100425	Styrene		c	100	1 2 3	6
96093	Styrene oxide		c	100	1 2 3 4	
*	Sulfuric acid and oleum					
8014957	Oleum	11/06		100		7
7446719	Sulfur trioxide	11/06		100		7
7664939	Sulfuric acid	06/91		2	1	
100210	Terephthalic acid	06/91		100	1	
79345	1,1,2,2-Tetrachloroethane	09/90	c	1	1 2 4	
-	Tetrachlorophenols (see Chlorophenols)					
7440280	Thallium	06/91		100		7
*	Thallium compounds	06/91	c	100		7 [7]
62555	Thioacetamide		c	0.01	3 4 5	
62566	Thiourea		c	0.1	1 3 4 5	

**Appendix A-I**  
**Substances for Which Emissions Must Be Quantified**

Emittent ID (Note [1])	Substance Name ( [Note 2])	Add Date ( [Note 3])	Carcinogen ( [Note 4])	Applicable Degree of Accuracy (lb/yr) ( [Note 5])	Source List(s) ( [Note 6])	Other Note(s)
7550450	Titanium tetrachloride	06/91		100	1 2	
108883	Toluene			200	1 2 4 6	
-	2,4-Toluenediamine (see 2,4-Diaminotoluene)					
26471625	Toluene diisocyanates including but not limited to:	06/91	c	0.1	1 3	
584849	Toluene-2,4-diisocyanate		c	0.1	1 2 3 5	
91087	Toluene-2,6-diisocyanate		c	0.1	1 2 3 5	
95534	o-Toluidine		c	10	1 2 3 4 5	
8001352	Toxaphene {Polychlorinated camphenes}		c	100	1 2 3 4 5	
-	1,1,1-Trichloroethane (see Methyl chloroform)					
79005	1,1,2-Trichloroethane {Vinyl trichloride}	06/91	c	1	1 2 4	
79016	Trichloroethylene		c	20	1 2 4	
-	2,4,6-Trichlorophenol (see Chlorophenols)					
96184	1,2,3-Trichloropropane	07/96	c	200	3 4 7	
121448	Triethylamine	06/91		20	1 2	
1582098	Trifluralin	06/91		100	1 2	
25551137	Trimethylbenzenes including but not limited to:	11/06		100	1	
95636	1,2,4-Trimethylbenzene	06/91		5	1	
540841	2,2,4-Trimethylpentane	06/91		100	1 2	
51796	Urethane {Ethyl carbamate}		c	0.1	1 2 3 4 5	
7440622	Vanadium (fume or dust)	06/91		10		7 [17]
1314621	Vanadium pentoxide	11/06		10	2	
108054	Vinyl acetate	06/91		200	1 2	
593602	Vinyl bromide		c	20	1 2 3 4	
75014	Vinyl chloride		c	0.5	1 2 3 4 5	
100403	4-Vinylcyclohexene	07/96	c	5	3	
75025	Vinyl fluoride	07/96	c	200	3	
75354	Vinylidene chloride			20	1 2	
1206	Wood preservatives (containing arsenic and chromate)	09/89		100		6
1330207	Xylenes (mixed) including:			200	1 2	6
108383	m-Xylene	06/91		200	1 2	
95476	o-Xylene	06/91		200	1 2	
106423	p-Xylene	06/91		200	1 2	
7440666	Zinc			2	2	
*	Zinc compounds including but not limited to:	09/89		2	1 2	[7]
1314132	Zinc oxide			2	2	[7]

**Appendix A-II**  
**Substances for Which Production, Use, or Other Presence Must be Reported**

Emittent ID (Note [1])	Substance Name ( [Note 2])	Add Date ( [Note 3])	Carcinogen ( [Note 4])	Source List(s) ( [Note 6])	Other Note(s)
26148685	A-alpha-C {2-Amino-9H-pyrido[2,3-b]indole}	09/89	c	3 4	[18]
34256821	Acetochlor	09/89	c	4	
62476599	Acifluorfen [POM]	09/90	c	1 2 4	
3688537	AF-2		c	3 4	
1000	Aflatoxins		c	3 4 5	
15972608	Alachlor	09/89	c	4	
309002	Aldrin	09/89	c	4	
107186	Allyl alcohol	06/91			7
60093	p-Aminoazobenzene {4-Aminoazobenzene} [POM]		c	1 2 3 4	
97563	o-Aminoazotoluene [POM]		c	1 2 3 4 5	
6109973	3-Amino-9-ethylcarbazole hydrochloride [POM]	09/89	c	1 2 4 5	
125848	Aminoglutethimide	09/90		4	
82280	1-Amino-2-methylantraquinone [PAH-Derivative, POM]		c	1 2 4 5	
68006837	2-Amino-3-methyl-9H-pyrido(2,3-b) indole {MeA-alpha-C}	09/89	c	3 4	
712685	2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole		c	3 4	
134292	o-Anisidine hydrochloride		c	4 5	
104949	p-Anisidine	06/91			7
140578	Aramite		c	3 4	
492808	Auramine [POM]		c	1 2 3 4 5	
446866	Azathioprine		c	1 2 3 4 5	
103333	Azobenzene [POM]	09/90	c	1 2 4	
98873	Benzal chloride	06/91			7
55210	Benzamide	06/91			7
1694093	Benzyl violet 4B [POM]		c	1 2 3 4	
1025	Betel quid with tobacco		c	3 4	
494031	N-N-Bis(2-chloroethyl)-2-naphthylamine {Chlornaphazine} [PAH-Derivative, POM]		c	1 2 3 4 5	
108601	Bis(2-chloro-1-methylethyl) ether	06/91			7
1030	Bitumens, extracts of steam-refined and air-refined bitumens		c	3 4	
1035	Bleomycins		c	3	
75274	Bromodichloromethane	09/90	c	4	
1689845	Bromoxynil	06/91		4	
25013165	Butylated hydroxyanisole {BHA}		c	3 4	
123728	Butyraldehyde	06/91			7
3068880	beta-Butyrolactone		c	3 4	
630080	Carbon monoxide	09/89		4	
143500	Chlordecone {Kepone}		c	3 4	

**Appendix A-II**  
**Substances for Which Production, Use, or Other Presence Must be Reported**

Emittent ID (Note [1])	Substance Name ( [Note 2])	Add Date ( [Note 3])	Carcinogen ( [Note 4])	Source List(s) ( [Note 6])	Other Note(s)
6164983	Chlordimeform	09/89	c	4	
115286	Chlorendic acid	09/89	c	3 4 5	
124481	Chlorodibromomethane	09/90	c	4	
563473	3-Chloro-2-methylpropene	09/89	c	4 5	
1065	Chlorophenoxy herbicides		c	3	
1897456	Chlorothalonil	09/89	c	4	
1059	p-Chloro-o-toluidine (strong acid salts)	06/91	c	3	
4680788	C. I. Acid Green 3 [POM] Note: "C.I." means "color index"	06/91		1 2	7
569642	C. I. Basic Green 4 [POM]	06/91		1 2	7
989388	C. I. Basic Red 1 [POM]	06/91		1 2	7
569619	C. I. Basic Red 9 monohydrochloride [POM]	09/89	c	1 2 4 5	
2832408	C. I. Disperse Yellow 3 [POM]	06/91		1 2	7
87296	Cinnamyl anthranilate [POM]	09/89	c	1 2 4 5	
6358538	Citrus Red No. 2 [POM]		c	1 2 3 4	
8007452	Coal tars	09/89	c	3 4 5	
21725462	Cyanazine	09/90		4	
14901087	Cycasin		c	3 4	
13121705	Cyhexatin	09/89		4 5	
3468631	D and C Orange No. 17 [PAH-Derivative, POM]	09/90	c	1 2 4	
81889	D and C Red No. 19 [POM]	09/90	c	1 2 4	
2092560	D and C Red No. 8 [PAH-Derivative, POM]	06/91	c	1 2 4	
5160021	D and C Red No. 9 [PAH-Derivative, POM]	09/90	c	1 2 4	
1596845	Daminozide	09/90	c	4	
50293	DDT {1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane} [POM]		c	1 2 3 4 5	
613354	N,N'-Diacetylbenzidine [POM]		c	1 2 3 4	
2303164	Diallate	06/91			7
39156417	2,4-Diaminoanisole sulfate		c	4 5	
101804	4,4'-Diaminodiphenyl ether [POM]		c	1 2 3 4 5	
764410	1,4-Dichloro-2-butene	09/90	c	4	
28434868	3,3'-Dichloro-4,4'-diaminodiphenyl ether [POM]	09/89	c	1 2 3 4	
72548	Dichlorodipenyldichloroethane {DDD} [POM]	09/89	c	1 2 4	
540590	1,2-Dichloroethylene	06/91			7
78886	2,3-Dichloropropene	06/91			7
60571	Dieldrin	09/89	c	4	
1464535	Diepoxybutane		c	3 4 5	
1615801	1,2-Diethylhydrazine		c	3 4	
84662	Diethyl phthalate	06/91			7



**Appendix A-II**  
**Substances for Which Production, Use, or Other Presence Must be Reported**

Emittent ID (Note [1])	Substance Name ( [Note 2])	Add Date ( [Note 3])	Carcinogen ( [Note 4])	Source List(s) ( [Note 6])	Other Note(s)
101906	Diglycidyl resorcinol ether {DGRE}		c	3 4 5	
94586	Dihydrosafrole		c	3 4	
20325400	3,3'-Dimethoxybenzidine dihydrochloride [POM]	06/91	c	1 2 4	
55738540	trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)vinyl]-1,3,4-oxadiazol		c	3 4	
540738	1,2-Dimethylhydrazine		c	3 4	
105679	2,4-Dimethylphenol {2,4-Xylenol}	06/91			7
513371	Dimethylvinylchloride {DMVC}	09/89	c	4 5	
25154545	Dinitrobenzenes (mixtures of) including:	09/90		4	7
99650	m-Dinitrobenzene	06/91			7
528290	o-Dinitrobenzene	06/91			7
100254	p-Dinitrobenzene	06/91			7
39300453	Dinocap	09/90		4	
88857	Dinoseb	09/89		4	
117840	n-Dioctyl phthalate	06/91			7
2475458	Disperse Blue 1 [PAH-Derivative, POM]	06/91	c	1 2 3 4	
541413	Ethyl chloroformate	06/91			7
62500	Ethyl methanesulfonate		c	3 4	
2164172	Fluometuron	06/91			7
133073	Folpet	09/89	c	4	
3570750	2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole		c	3 4	
60568050	Furmecyclox	09/90	c	4	
67730114	Glu-P-1 {2-Amino-6-methyldipyrido[1,2-a:3',2'-d]imidazole}		c	3 4	
67730103	Glu-P-2 {2-Aminodipyrido[1,2-a:3',2'-d]imidazole}		c	3 4	
765344	Glycidaldehyde		c	3 4	
556525	Glycidol	09/90	c	4	
16568028	Gyromitrin {Acetaldehyde methylformylhydrazone}		c	4	
2784943	HC Blue 1	09/89	c	4 5	
1024573	Heptachlor epoxide	09/89	c	4	
1335871	Hexachloronaphthalene [PAH-Derivative, POM]	06/91		1 2	7
10034932	Hydrazine sulfate		c	4 5	
76180966	IQ {2-Amino-3-methylimidazo[4,5-f]quinoline}		c	3 4	
78842	Isobutyraldehyde	06/91			7
120581	Isosafrole	09/90	c	4	
4759482	Isotretinoin			4	
77501634	Lactofen [POM]	09/89	c	1 2 4	

**Appendix A-II**  
**Substances for Which Production, Use, or Other Presence Must be Reported**

Emittent ID (Note [1])	Substance Name ( [Note 2])	Add Date ( [Note 3])	Carcinogen ( [Note 4])	Source List(s) ( [Note 6])	Other Note(s)
1131	Lubricant base oils and derived products, specifically vacuum distillates, acid treated oils, aromatic oils, mildly solvent-refined oils, mildly hydrotreated-oils and used engine oils.	09/89	c	3 4 5	
8018017	Mancozeb	09/90	c	4	
12427382	Maneb	09/90	c	4	
59052	Methotrexate	09/89		4	
96333	Methyl acrylate	06/91			7
590965	Methylazoxymethanol	09/90	c	4	
592621	Methylazoxymethanol acetate	09/89	c	3 4	
101611	4,4'-Methylene bis (N,N-dimethyl) benzenamine [POM]		c	1 2 4 5	
838880	4,4'-Methylene bis(2-methylaniline) [POM]	09/89	c	1 2 3 4	
74953	Methylene bromide	06/91			7
66273	Methyl methanesulfonate		c	3 4	
129157	2-Methyl-1-nitroanthraquinone (uncertain purity) [PAH-Derivative, POM]		c	1 2 3 4	
70257	N-Methyl-N'-nitro-N-nitrosoguanidine		c	3 4	
-	N-Methyl-N-nitrosourethane (see N-Nitroso-N-methylurethane)				
924425	N-Methyloacrylamide	09/90	c	4	
9006422	Metiram	09/90		4	
1140	Mineral oils (untreated and mildly treated oils; and those used in occupations such as mulespinning, metal machining, and jute processing).		c	3 4 5	
2385855	Mirex		c	3 4 5	
315220	Monocrotaline		c	3 4	
505602	Mustard gas {Sulfur mustard}		c	3 4 5	
134327	1-Naphthylamine [PAH-Derivative, POM]	09/90	c	1 2 4	
91598	2-Naphthylamine [PAH-Derivative, POM]		c	1 2 3 4 5	
54115	Nicotine	09/90		4	
1148	Nitrilotriacetic acid (salts) including but not limited to:	06/91	c	3	
18662538	Nitrilotriacetic acid, trisodium salt monohydrate	06/91	c	4	
99592	5-Nitro-o-anisidine		c	4 5	
1836755	Nitrofen (technical grade)		c	3 4 5	
51752	Nitrogen mustard {Mechlorethamine}	09/89	c	3 4 5	
55867	Nitrogen mustard hydrochloride	06/91	c	4 5	
55630	Nitroglycerin	06/91			7
88755	2-Nitrophenol	06/91			7
57835924	4-Nitropyrene [PAH-Derivative, POM]	09/89	c	1 2 3 4	
759739	N-Nitroso-N-ethylurea	09/89	c	4 5	
60153493	3-(N-Nitrosomethylamino)propionitrile	09/89	c	3 4	

**Appendix A-II**  
**Substances for Which Production, Use, or Other Presence Must be Reported**

<b>Emittent ID</b> (Note [1])	<b>Substance Name</b> ([Note 2])	<b>Add Date</b> ([Note 3])	<b>Carcinogen</b> ([Note 4])	<b>Source List(s)</b> ([Note 6])	<b>Other Note(s)</b>
64091914	4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone {NNK}		c	3 4	
615532	N-Nitroso-N-methylurethane		c	3 4	
4549400	N-Nitrosomethylvinylamine		c	3 4 5	
16543558	N-Nitrosornicotine		c	3 4 5	
13256229	N-Nitrososarcosine		c	3 4 5	
303479	Ochratoxin A [POM]	09/90	c	1 2 4	
2234131	Octachloronaphthalene [PAH-Derivative, POM]	06/91		1 2	7
2646175	Oil Orange SS [PAH-Derivative, POM]		c	1 2 3 4	
20816120	Osmium tetroxide	06/91			7
794934	Panfuran S {Dihydroxymethylfuratrizine}		c	3 4	
122601	Phenyl glycidyl ether	09/90	c	3 4	
57410	Phenytoin [POM]		c	1 2 3 4 5	
88891	Picric acid	06/91			7
1155	Polybrominated biphenyls {PBBs} [POM]		c	1 2 3 4 5	
53973981	Polygeenan	09/89	c	4	
3761533	Ponceau MX [PAH-Derivative, POM]		c	1 2 3 4	
3564098	Ponceau 3R [PAH-Derivative, POM]		c	1 2 3 4	
36791045	Ribavirin	09/90		4	
94597	Safrole		c	3 4 5	
1180	Shale oils		c	3 4	
132274	Sodium o-phenylphenate [POM]		c	1 2 3 4	
128449	Sodium saccharin	09/89	c	4	
1185	Soots		c	3 4	
10048132	Sterigmatocystin [POM]		c	1 2 3 4	
95067	Sulfallate		c	3 4 5	
5216251	p-alpha,alpha,alpha-Tetrachlorotoluene	09/90	c	4	
961115	Tetrachlorvinphos	06/91			7
509148	Tetranitromethane	09/90	c	4	
139651	4,4'-Thiodianiline [POM]		c	1 2 3 4	
1314201	Thorium dioxide		c	4 5	
1200	Tobacco products, smokeless		c	3 4	
1205	alpha-chlorinated Toluenes		c	3	
636215	o-Toluidine hydrochloride		c	4 5	
106490	p-Toluidine	09/90	c	4	
52686	Trichlorfon	06/91			7
68768	Tris(aziridinyl)-p-benzoquinone {Triaziquone}	09/90	c	4	
52244	Tris(1-aziridinyl) phosphine sulfide {Thiotepa}		c	3 4 5	

**Appendix A-II**  
**Substances for Which Production, Use, or Other Presence Must be Reported**

Emittent ID (Note [1])	Substance Name ( [Note 2])	Add Date ( [Note 3])	Carcinogen ( [Note 4])	Source List(s) ( [Note 6])	Other Note(s)
126727	Tris(2,3-dibromopropyl)phosphate	09/89	c	4	
62450060	Trp-P-1 {3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole}		c	3 4	
62450071	Trp-P-2 {3-Amino-1-methyl-5H-pyrido[4,3-b]indole}		c	3 4	
72571	Trypan blue [PAH-Derivative, POM]		c	1 2 3 4	
106876	4-Vinyl-1-cyclohexene diepoxide {Vinyl cyclohexene dioxide}	09/90	c	4	
81812	Warfarin [POM]			1 2 4	
87627	2,6-Xylidene	06/91		4	
12122677	Zineb	09/90	c	4	

**Appendix A-III**  
**Substances Which Need Not Be Reported Unless Manufactured By the Facility**

Emittent ID (Note [1])	Substance Name ( [Note 2])	Add Date ( [Note 3])	Carcinogen ( [Note 4])	Source Lists ( [Note 6])
546883	Acetohydroxamic acid	09/90		4
50760	Actinomycin D	09/90	c	4
23214928	Adriamycin [PAH-Derivative, POM]		c	1 2 3 4 5
28981977	Alprazolam [POM]	09/90		1 2 4
39831555	Amikacin sulfate	09/90		4
54626	Aminopterin			4
1005	Analgesic mixtures containing phenacetin		c	3 4 5
1010	Androgenic (anabolic) steroids including but not limited to:		c	3 4
58184	Methyltestosterone	09/90		4
434071	Oxymetholone		c	4 5
58220	Testosterone and its esters including but not limited to:	09/89		4
315377	Testosterone enanthate	09/90		4
50782	Testosterone enanthate	06/91		4
115026	Azaserine		c	3 4
5411223	Benzphetamine hydrochloride [POM]	09/90		1 2 4
154938	Bischloroethyl nitrosourea		c	3 4
55981	1,4-Butanediol dimethanesulfonate {Busulfen/Myleran}		c	3 4 5
41575944	Carboplatin	09/90		4
474259	Chenodiol	09/90		4
305033	Chlorambucil		c	3 4 5
56757	Chloramphenicol		c	3 4
1620219	Chlorcyclizine hydrochloride [POM]			1 2 4
13010474	1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea {CCNU}		c	3 4 5
13909096	1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea {Methyl CCNU}		c	3
15663271	Cisplatin		c	3 4
50419	Clomiphene citrate [POM]	09/90		1 2 4
50180	Cyclophosphamide		c	3 4
147944	Cytarabine	09/89		4
4342034	Dacarbazine		c	3 4 5
17230885	Danazol	09/90		4
20830813	Daunomycin [PAH-Derivative, POM]		c	1 2 3 4
23541506	Daunorubicin hydrochloride [PAH-Derivative, POM]	09/90		1 2 4
84173	Dienestrol [POM]	09/90	c	1 2 4
564250	Doxycycline	09/90		4
379793	Ergotamine tartrate [POM]	09/90		1 2 4
1095	Estrogens, non-steroidal including but not limited to:		c	3 5
56531	Diethylstilbestrol [POM]		c	1 2 3 4 5
1100	Estrogens, steroidal including but not limited to:		c	3 5
1068	Conjugated estrogens	09/90	c	4

**Appendix A-III**  
**Substances Which Need Not Be Reported Unless Manufactured By the Facility**

Emittent ID (Note [1] )	Substance Name ( [Note 2] )	Add Date ( [Note 3] )	Carcinogen ( [Note 4] )	Source Lists ( [Note 6] )
50282	Estradiol 17 beta		c	4 5
53167	Estrone		c	4 5
57636	Ethinyl estradiol		c	4 5
72333	Mestranol		c	3 4 5
33419420	Etoposide [POM]	09/90		2
54350480	Etretinate			4
51218	Fluorouracil	09/89		4
76437	Fluoxymesterone	09/90		4
13311847	Flutamide	09/90		4
67458	Furazolidone	09/90	c	4
126078	Griseofulvin		c	3 4
23092173	Halazepam [POM]	09/90		1 2 4
3778732	Ifosfamide	09/90		4
9004664	Iron dextran complex		c	3 4 5
303344	Lasiocarpine	09/89	c	3 4
554132	Lithium carbonate	06/91		4
919164	Lithium citrate	06/91		4
846491	Lorazepam [POM]	09/90		1 2 4
595335	Megestrol acetate	06/91		4
148823	Melphalan		c	3 4 5
9002680	Menotropins	09/90		4
6112761	Mercaptopurine	09/90		4
531760	Merphalan	09/89	c	4
3963959	Methacycline hydrochloride	06/91		4
60560	Methimazole	09/90		4
15475566	Methotrexate sodium	09/90		4
484208	5-Methoxypsoralen		c	3
56042	Methylthiouracil		c	3 4
443481	Metronidazole		c	3 4 5
59467968	Midazolam hydrochloride [POM]	09/90		1 2 4
62015398	Misoprostol	09/90		4
50077	Mitomycin C		c	3 4
70476823	Mitoxantrone hydrochloride [PAH-Derivative, POM]	09/90		1 2 4
139913	5-(Morpholinomethyl)-3-[(5-nitrofurfurylidene)amino]-2-oxazolidinone		c	3 4
86220420	Nafarelin acetate [PAH-Derivative, POM]	09/90		1 2 4
3771195	Nafenopin [POM]		c	1 2 3 4
1405103	Neomycin sulfate	09/90		4
56391572	Netilmicin sulfate	09/90		4
61574	Niridazole		c	3 4

**Appendix A-III**  
**Substances Which Need Not Be Reported Unless Manufactured By the Facility**

<b>Emittent ID</b> (Note [1])	<b>Substance Name</b> ([Note 2])	<b>Add Date</b> ( [Note 3])	<b>Carcinogen</b> ( [Note 4])	<b>Source Lists</b> ( [Note 6])
67209	Nitrofurantoin	06/91	c	4
59870	Nitrofurazone	09/90	c	4
555840	1-[(5-Nitrofurfurylidene)amino]-2-imidazolidinone		c	3 4
531828	N-[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide		c	3 4
6533002	Norgestrel	09/90		4
79572	Oxytetracycline	06/91		4
115673	Paramethadione	09/90		4
52675	Penicillamine	06/91		4
57330	Pentobarbital sodium	09/90		4
63989	Phenacemide	09/90		4
62442	Phenacetin		c	3 4 5
94780	Phenazopyridine hydrochloride		c	3 4 5
3546109	Phenesterin	09/89	c	4 5
50066	Phenobarbital		c	3 4
59961	Phenoxybenzamine [POM]	09/89	c	1 2 4
63923	Phenoxybenzimidazole hydrochloride [POM]	09/90	c	1 2 3 4 5
54911	Pipobroman	09/90		4
18378897	Plicamycin [PAH-Derivative, POM]	09/90		1 2 4
366701	Procarbazine hydrochloride		c	3 4 5
57830	Progesterone		c	3 4 5
1160	Progestins including but not limited to:		c	3
71589	Medroxyprogesterone acetate		c	3 4
68224	Norethisterone		c	4 5
51525	Propylthiouracil		c	3 4 5
302794	all-trans-Retinoic acid	09/89		4
1167	Retinol/retinyl esters	09/89	c	4
81072	Saccharin		c	3 4 5
3810740	Streptomycin sulfate	06/91		4
18883664	Streptozotocin		c	3 4 5
54965241	Tamoxifen citrate [POM]	09/90		1 2 4
846504	Temazepam [POM]	09/90		1 2 4
64755	Tetracycline hydrochloride	06/91		4
50351	Thalidomide			4
154427	Thioguanine	09/90		4
49842071	Tobramycin sulfate	09/90		4
299752	Treosulfan		c	3 4
28911015	Triazolam [POM]	09/90		1 2 4
13647353	Trilostane	09/90		4
127480	Trimethadione	06/91		4

**Appendix A-III**  
**Substances Which Need Not Be Reported Unless Manufactured By the Facility**

Emittent ID (Note [1] )	Substance Name ( [Note 2])	Add Date ( [Note 3])	Carcinogen ( [Note 4])	Source Lists ( [Note 6])
66751	Uracil mustard		c	3 4
26995915	Urofollitropin	09/90		4
99661	Valproate			4
143679	Vinblastine sulfate [POM]	09/90		1 2 4
2068782	Vincristine sulfate [POM]	09/90		1 2 4



**NOTES TO APPENDIX A:**

Note	Text of Note
	-----
----- [ 1]	<p>Emittent ID (the emittent identification number) is the Chemical Abstract Service (CAS) number where available, or an ARB-assigned 4-digit emittent ID code.</p> <p>A dash ("-") is shown for the Emittent ID for substances which are alphabetized under a group header or synonym elsewhere on the list. Refer to the cross reference indicated in parenthesis, "( )".</p> <p>A double dash ("- -") is shown for the Emittent ID to indicate that the entry is a non-reportable group header for the substances immediately following it.</p> <p>An asterisk ("*") is shown for the Emittent ID to indicate that the emissions of unspecified metal compounds shall be reported as the metal atom equivalent. See Note [7].</p> <p>A pound sign ("#") is shown for the Emittent ID to indicate that the individual, component listed substances must be reported for this mixture or group.</p>
[ 2]	<p>Individual substances listed under a group heading must be reported individually. Other, unspecified substances in the group must be summed and reported using the emittent ID of the group heading.</p> <p>The square bracket designation, "[ ]", indicates that the substance is a component of the chemical group heading(s) within the brackets.</p> <p>The braces designation, "{ }", indicates a synonym for the substance listed.</p>
[ 3]	<p>The date the Board approved addition of the substance to the original list. The original list was approved by the Board in July 1988.</p>
[ 4]	<p>The letter "c" indicates that for purposes of this section the substance shall be treated as a human carcinogen or potential human carcinogen.</p>
[ 5]	<p>Applicable degree of accuracy (in lbs/year except where noted). Radionuclides must be reported in Curie units, and the accuracy must be considered accordingly. Refer to section VII.E. and Appendix B.</p>

Note      Text of Note

[ 6]      Substances are required to be included on the Hot Spots list based on the following lists cited in Health & Safety Code section 44321:

- 
- 1 = California Air Resources Board (44321(c));      2 = Environmental Protection Agency (44321(e));
- 3 = International Agency for Research on Cancer;      4 = Governor's List of Carcinogens and Reproductive Toxicants;  
(44321(a); Labor Code section 6382(b)(1));      (44321(b); HSC section 25249.8);
- 5 = National Toxicology Program (44321(a));      6 = Hazard Evaluation System and Information Service  
(44321(d));
- 7 = Added pursuant to HSC section 44321 (f).

[ 7]      Emissions of unspecified metal compounds shall be reported as the amount of the metal atom equivalent, using the metal emittent identification number for the metal itself (or the emittent identification number indicated on the table, such as for reporting inorganic versus other-than-inorganic arsenic compounds).

For unspecified metal compounds which contain two or more listed metals (e.g., zinc chromate), each component metal shall be reported as the amount of the appropriate metal atom equivalent (i.e., the zinc portion of the weight as zinc equivalent and the chromate portion as hexavalent chromium equivalent).

For specific, individually listed metal compounds (e.g., Lead chromate), emissions shall be reported for the compound (as pounds of whole compound), using the emittent identification number for that compound.

[ 8]      Compounds of the form "X-CN", where formal dissociation can occur. Report as the amount of Cyanide equivalent in the compound using an emittent identification code of 1073.

[ 9]      Emissions of these mixtures shall be reported as emissions of total particulate matter and total organic gas, using the following emittent identification numbers:

9901 Diesel exhaust, particulate matter	9910 Gasoline exhaust, particulate matter
9902 Diesel exhaust, total organic gas	9911 Gasoline exhaust, total organic gas

Individually listed substances from gasoline exhaust must also be reported. Emissions of diesel engine exhaust particulate matter (diesel PM), shall be reported as diesel PM using emittent ID 9901.

[10]      The emittent identification number 1105 has been discontinued for all facilities reporting for the first time and for all updates. Use the listed replacement emittent identification codes 1103 and 1104.

Note	Text of Note
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[11]	Emissions of the individual, component listed substances must be reported in addition to the total gasoline vapors emissions.
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[12]	These lead compounds are listed here so that the inorganic lead fraction will be quantified and reported if these individual compounds cannot be quantified.
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[13]	PAH: (Polycyclic Aromatic Hydrocarbon) - An organic compound consisting of a fused ring structure containing at least two (2) benzene rings, and which may also contain additional fused rings not restricted exclusively to hexagonal rings.
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The structure does not include any heteroatoms or substituent groups. The structure includes only carbon and hydrogen.

PAHs are a subgroup of POM and have a boiling point of greater than or equal to 100 C.

[14]	PAH-DERIVATIVE: (Polycyclic Aromatic Hydrocarbon Derivative) - An organic compound consisting of a fused ring structure containing at least two (2) benzene rings, and which may also contain additional fused rings not restricted exclusively to hexagonal rings. The fused ring structure does not contain heteroatoms. The structure does contain one or more substituent groups.
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PAH-Derivatives are a subgroup of POM and have a boiling point of greater than or equal to 100 C.

[15]	POM: (Polycyclic Organic Matter) - Includes organic compounds with more than one benzene ring, and which have a boiling point of greater than or equal to 100 C.
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[16]	Radionuclides and other radioactive substances shall be reported in units of Curies per year (for annual average emissions) and in units of milliCuries per hour (for maximum hourly emissions).
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[17]	Emissions of Vanadium (fume or dust) shall be reported as the amount of the vanadium atom equivalent, using the identification number 7440622.
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[18]	The emittent identification number 1001 has been replaced with the CAS number 26148685.
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*NOTE: The notation "11/06" indicates most recently added substances.*