

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

<b>Emittent ID</b> (Note [1])	<b>Substance Name</b> ( [Note 2])	<b>Add Date</b> ( [Note 3])	<b>Carcinogen</b> ( [Note 4])	<b>Applicable Degree of Accuracy</b> (lb/yr) ( [Note 5])	<b>Source List(s)</b> ( [Note 6])	<b>Other Note(s)</b>
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**

<b>Emittent ID</b> (Note [1])	<b>Substance Name</b> ( [Note 2])	<b>Add Date</b> ( [Note 3])	<b>Carcinogen</b> ( [Note 4])	<b>Applicable Degree of Accuracy</b> (lb/yr) ( [Note 5])	<b>Source List(s)</b> ( [Note 6])	<b>Other Note(s)</b>
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**

<b>Emittent ID</b> (Note [1])	<b>Substance Name</b> ( [Note 2])	<b>Add Date</b> ( [Note 3])	<b>Carcinogen</b> ( [Note 4])	<b>Applicable Degree of Accuracy</b> (Ib/yr) ( [Note 5])	<b>Source List(s)</b> ( [Note 6])	<b>Other Note(s)</b>
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**

<b>Emittent ID</b> (Note [1])	<b>Substance Name</b> ([Note 2])	<b>Add Date</b> ( [Note 3])	<b>Carcinogen</b> ( [Note 4])	<b>Applicable Degree of Accuracy</b> (Ib/yr) ( [Note 5])	<b>Source List(s)</b> ( [Note 6])	<b>Other Note(s)</b>
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**

<b>Emittent ID</b> (Note [1])	<b>Substance Name</b> ( [Note 2])	<b>Add Date</b> ( [Note 3])	<b>Carcinogen</b> ( [Note 4])	<b>Applicable Degree of Accuracy</b> (lb/yr) ( [Note 5])	<b>Source List(s)</b> ( [Note 6])	<b>Other Note(s)</b>
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**

<b>Emittent ID</b> (Note [1])	<b>Substance Name</b> ( [Note 2])	<b>Add Date</b> ( [Note 3])	<b>Carcinogen</b> ( [Note 4])	<b>Applicable Degree of Accuracy</b> (Ib/yr) ( [Note 5])	<b>Source List(s)</b> ( [Note 6])	<b>Other Note(s)</b>
#	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**

<b>Emittent ID</b> (Note [1])	<b>Substance Name</b> ( [Note 2])	<b>Add Date</b> ( [Note 3])	<b>Carcinogen</b> ( [Note 4])	<b>Applicable Degree of Accuracy</b> (Ib/yr) ( [Note 5])	<b>Source List(s)</b> ( [Note 6])	<b>Other Note(s)</b>
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]