Overview of Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines Regulation, Appendix A

CARB requirements, by statute (Health & Safety Code Section 44300)

The AB 2588 Air Toxics "Hot Spots" Program (Statute; Health and Safety Code (H&SC) Sections 44300) requires CARB to compile and maintain a list of substances for assessing toxic air pollutants. In our assessment, we consider specific international, national, state, and other lists of chemicals explicitly referenced in the Statute, as well as under our own CARB authority.

There are seven sources from which the chemical substances are required to be considered for inclusion on the Hot Spots list.
(1) CARB's Toxic Air Contaminants (TACs)
(2) US EPA Hazardous Air Pollutants (HAPs)
(3) International Agency for Research on Cancer (IARC)
(4) Proposition 65
(5) National Toxicology Program (NTP)
(6) Hazard Evaluation System and Information Service (HESIS)
(7) Explicit provision of CARB authority

By statute, CARB is required to list all of the chemical substances found in the list above in Appendix A of the EICG, unless the substance meets the following criteria:

(1) No evidence exists that it has been detected in the air
(2) The substance is not manufactured or used in California

CARB has divided the list into three appendices as described here:
A-I are substances for which emissions are required to be quantified
A-II are substances for which production, use, or other presence must be reported
A-III are substances which need not be reported unless manufactured by the facility

Additional information

Over the past decade, many new chemical substances have emerged. In addition, evidence from various toxicity studies have given rise to potential public health concerns. In particular, several hundred new substances were added to IARC's list.

Office of Environmental Health Hazard Assessment (OEHHA) uses toxic emission data reported under AB2588 to help identify and prioritize chemical substances to develop cancer potency values or reference exposure limits. Therefore, the chemical substance list is not limited to only chemical substances that have been given an approved health value by OEHHA.

AB2588's EICG requires all emissions that are routine and predictable to be reported, including not only releases from stacks and ducts, but all types of fugitive releases as well.

Emerging chemicals/CARB authority

During the process of identifying substances of concern for public health, CARB is made aware of new emerging chemicals that are highly likely to pose health risk but have not gone through the full process of chemical identification by the six other sources listed in H&SC Section 44300. An example of these chemicals are perfluorohexane sulfonate (PFHxS) and perfluorohexonic acid (PFHxA), which are chemicals that are very similar to perfluorooctanoic acid (PFOA), and perfluorooctane sulfonate (PFOS). These chemicals are all comparable to one another in terms of toxicity, but only PFOA & PFOS have been officially approved by these lists.

For these emerging chemicals, CARB has identified a subset of chemicals that based on existing information, are highly likely to pose a threat to public health, have the potential to become airborne, and may be manufactured or used in California. While there are many potential sources that could be used to draw chemicals from, CARB has limited this first-round analysis to only include chemicals identified from the US EPA and the Organization for Economic Co-operation and Development, and the Biomonitoring California lists.

Notes:
e - denotes a chemical that is already on the existing Appendix A list but is included here for context.
2* - indicates a US EPA list other than the Hazardous Air Pollutants (HAPs), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* - indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plants to track its status
6* - indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

Appendix A-I: **Substances for Which Emissions Must be Quantified**

Emittent ID (Note [1])	e	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)
30560191		Acephate	<new>								7	[19]
105577		Acetal	<new>				2*				7	
75070	e	Acetaldehyde		c	20	1	2	3	4			
60355	e	Acetamide		c	2	1	2	3	4			
64197		Acetic acid	<new>				2*				7	
108247		Acetic anhydride	<new>				2*				7	
102012		Acetoacetanilide	<new>				2*				7	
75058	e	Acetonitrile	06/91		200	1	2					
98862	e	Acetophenone	06/91		100	1	2					
53963	e	2-Acetylaminofluorene [PAH-Derivative, POM]		c	100	1	2		4	5		
107028	e	Acrolein			0.05	1	2	~~3~~				
79061	e	Acrylamide		c	0.01	1	2	3	4			
79107	e	Acrylic acid	06/91		5	1	2	~~3~~				
107131	e	Acrylonitrile		c	0.1	1	2	3	4	5		
--		Acrylonitrile-butadiene-styrene copolymers (must report the individual monomer components)	<new>								7	
111693		Adiponitrile	<new>				2*				7	
116063		Aldicarb	<new>								7	[19]
106956		Allyl bromide	<new>								7	
107051	e	Allyl chloride		c	5	1	2		4			
109751		Allyl cyanide	<new>				2*				7	
57067		Allyl isothiocyanate	<new>								7	
2835394		Allyl isovalerate	<new>								7	
96059		Allyl methacrylate	<new>								7	
7429905	e	Aluminum	06/91		100	1						
1344281	e	Aluminum oxide (fibrous forms)	06/91		100						7	
117793	e	2-Aminoanthraquinone [PAH-Derivative, POM]		c	5	1	2		4	5		
92671	e	4-Aminobiphenyl [POM]		c	100	1	2	3	4	5		
95852		2-Amino-4-chlorophenol	<new>	c				3*	4			
81492		1-Amino-2,4-dibromoanthraquinone [PAH-related]	<new>	c				3	4	5		
77094112		2-Amino-3,4-dimethylimidazo[4,5-f]quinoline (see MeIQ)	<new>	c				3	4			
77500040		2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline (see MeIQx)	<new>	c				3	4			
153786		2-Aminofluorene	<new>	c					4			
99570		2-Amino-4-nitrophenol	<new>								7	
121880		2-Amino-5-nitrophenol	<new>								7	
119346		4-Amino-2-nitrophenol	<new>	c					4			
33089611		Amitraz	<new>						4			[19]
61825	e	Amitrole		c	0.1			~~3~~	4	5		
7664417	e	Ammonia			200	1	2					
12125029		Ammonium chloride	<new>								7	
6484522	e	Ammonium nitrate	06/91		100	1						
3825261		Ammonium perfluorooctanate	<new>								7	
7783202	e	Ammonium sulfate	06/91		100	1						
994058		tert-Amyl methyl ether	<new>						4			
62533	e	Aniline	09/90	c	5	1	2	~~3~~	4			
142041		Aniline hydrochloride	<new>	c			2*		4		7	
90040	e	o-Anisidine		c	100	1	2	3	4	5		
-	e	Anthracene [PAH, POM], (see PAH)				1						
90640805		Anthracene oil	<new>								7	
90640816		Anthracene oil, anthracene paste	<new>								7	
91995152		Anthracene oil, anthracene paste, anthracene fraction	<new>								7	
91995174		Anthracene oil, anthracene paste, distillation lights	<new>								7	
90640827		Anthracene oil, anthracene-low	<new>								7	
118923		Anthranilic acid	<new>								7	
84651		Anthraquinone [PAH-related]	<new>	c			2*	3	4			
7440360	e	Antimony	06/91		1						7	
*	e	Antimony compounds including but not limited to:	06/91		1	1	2					[7]
1309644	e	Antimony trioxide {Antimony oxide}	09/90	c	1	1	2	3	4			[7]
1314609	e	Antimony trioxide {Antimony oxide} (alt. CAS, see CAS 1309644)	<new>	c	1	1	2	3	4			[7] [21]
1345046		Antimony trisulfide	<new>								7	
24938645		p-Aramid fibrils	<new>								7	

Appendix A-I: Substances for Which Emissions Must be Quantified

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)							Other
7440382	e	Arsenic		c	0.01	1	2	3	4	5			
1016	e	Arsenic compounds (inorganic) including but not limited to:		c	0.01	1	2	3	4	5			[7]
7784421	e	Arsine		c	0.01	1	2	3				7	[7]
7778394		Arsenic acid	<new>	c				3				7	[19]
--		Arsenic (inorganic oxides)	<new>	c				3	4				
1303282		Arsenic pentoxide	<new>	c				3				7	[19]
1327533		Arsenic trioxide	<new>	c				3				7	[19]
7778441		Calcium arsenate	<new>	c				3				7	
1303000		Gallium arsenide	<new>	c				3	4				
1017	e	Arsenic compounds (other than inorganic)	06/91		0.1	1							[7]
124583		Methylarsonic acid	<new>	c				3					[19]
-	e	Asbestos (all forms; see Mineral fibers)											
1912249		Atrazine	<new>						4				[19]
86500		Azinphosmethyl	<new>									7	[19]
131860338		Azoxystrobin	<new>									7	
7440393	e	Barium	06/91		1							7	
*	e	Barium Compounds	06/91		1	1							[7]
7727437		Barium sulfate	<new>									7	
22781233		Bendiocarb	<new>									7	
17804352		Benomyl	<new>						4				[19]
741582		Bensulfide	<new>									7	[19]
100527		Benzaldehyde	<new>				2*					7	
-	e	Benz[a]anthracene [PAH, POM], (see PAH)											
71432	e	Benzene		c	2	1	2	3	4	5			
98113		Benzenesulfonic acid	<new>				2*					7	
108985		Benzenethiol	<new>									7	
92875	e	Benzidine (and its salts) [POM]		c	0.0001	1	2	3	4	5			
1020	e	Benzidine-based dyes [POM] including but not limited to:		c	0.0001	1	2	3	4				
28407376		C.I. Direct Blue 218 [POM]	<new>	c					4				
612828		3,3'-Dimethylbenzidine dihydrochloride	<new>	c					4				
1937377	e	Direct Black 38 [PAH-Derivative, POM]		c	0.0001	1	2		4	5			
2602462	e	Direct Blue 6 [PAH-Derivative, POM]		c		1	2		4	5			
16071866	e	Direct Brown 95 (technical grade) [POM]	09/89	c	0.0001	1	2		4				
-	e	Benzo[a]pyrene [PAH, POM], (see PAH)											
-	e	Benzo[b]fluoranthene [PAH, POM], (see PAH)											
271896	e	Benzofuran	06/91	c	100			3	4				
203123		Benzo[g,h,i]fluoranthene [PAH-related]	<new>									7	
98077	e	Benzoic trichloride {Benzotrichloride}		c	10	1	2		4	5			
-	e	Benzo[j]fluoranthene [PAH, POM] (see PAH)											
-	e	Benzo[k]fluoranthene [PAH, POM] (see PAH)											
100470		Benzonitrile	<new>				2*					7	
119619		Benzophenone	<new>	c			2*	3	4			7	
131577		Benzophenone-3 {BP3} {Oxybenzone}	<new>									7	
105113		p-Benzoquinone dioxime	<new>									7	
98884	e	Benzoyl chloride	06/91	c	100	1		3					
94360	e	Benzoyl peroxide	06/91		100							7	
100516		Benzyl alcohol	<new>				2*				6	7	
100447	e	Benzyl chloride		c	1	1	2	3	4				
7440417	e	Beryllium		c	0.001	1	2	3	4	5			
*	e	Beryllium compounds including but not limited to:	09/89	c	0.001	1	2	3	4	5			[7]
13510491		Beryllium sulfate	<new>	c				3	4				
7787566		Beryllium sulfate (tetrahydrate)	<new>	c				3	4				
1304569		Beryllium oxide	<new>	c				3	4				
82657043		Bifenthrin	<new>									7	[19]
92524	e	Biphenyl [POM] [PAH-related]	06/91		0.5	1	2						
3296900		2,2-Bis(bromomethyl)propane-1,3-diol (see Brominated and Chlorinated Organic Compounds Used as Flame Retardants)	<new>	c				3	4	5			
111444	e	Bis(2-chloroethyl) ether {DCEE}	09/89	c	0.05	1	2	~~3~~	4				
542881	e	Bis(chloromethyl) ether		c	0.001	1	2	3	4	5			
108601		Bis(2-chloro-1-methylethyl)ether, technical grade	<new>	c					4				
2386905		Bis(2,3-epoxycyclopentyl) ether	<new>									7	
103231	e	Bis(2-ethylhexyl) adipate	06/91		100	1							

Appendix A-I: **Substances for Which Emissions Must be Quantified**

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)					Other
80057		Bisphenol A {BPA}	<new>						6		
1675543		Bisphenol A diglycidyl ether {BADGE} {Araldite}	<new>						6		
1478611		Bisphenol AF {BPAF} {Hexafluorobisphenol A}	<new>							7	
77407		Bisphenol B {BPB}	<new>							7	
620928		Bisphenol F {BPF}	<new>							7	
2095036		Bisphenol F diglycidyl ether {BFDGE}	<new>							7	
80091		Bisphenol S {BPS}	<new>							7	
56359		Bis(tributyltin) oxide {TBTO}	<new>							7	
10294334		Boron tribromide	<new>							7	
10294345		Boron trichloride	<new>							7	
--		Boron trifluoride complexes including but not limited to:	<new>						6		
7637072		Boron trifluoride	<new>						6		
13319750		Boron trifluoride dihydrate	<new>						6		
		Boron trifluoride ethers	<new>							7	
314409		Bromacil	<new>							7	
53404196		Bromacil lithium salt	<new>				4				[19]
--		Brominated and Chlorinated Organic Compounds used as Flame Retardants:	<new>							7	
3278895		Allyl 2,4,6-tribromophenyl ether {ATE}	<new>							7	
3296900		2,2-Bis(bromomethyl)-1,3-propanediol	<new>	c		3	4	5			
38051104		2,2-Bis(chloromethyl)trimethylene bis[bis(2- chloroethyl)phosphate]	<new>							7	
26040517		Bis(2-ethyl-1-hexyl)tetrabromophthalate {TBPH}	<new>							7	
13560899		Bis(hexachlorocyclopentadieno)cyclooctane	<new>							7	
37853591		1,2-Bis(2,4,6-tribromophenoxy)ethane {BTBPE}	<new>							7	
< 4 Digit ID>		Brominated Polystyrenes	<new>							7	
99717563		2-Bromoallyl 2,4,6-tribromophenyl ether {BATE}	<new>							7	
115286	e	Chlorendic acid	09/89	c		3	4	5			
108171262		Chlorinated paraffins (see Chlorinated Paraffins: average chain length, C12; approximately 60% Chlorine by weight) (This includes C10-13, chloro Short Chain Chlorinated Paraffins))	<new>	c		3	4	5			
84852539		Decabromodiphenyl ethane {DBDPE}	<new>							7	
1163195		Decabromodiphenyl ether (DecaBDE)	<new>							7	
3322938		1,2-Dibromo-4-(1,2-dibromoethyl)cyclohexane {TBECH}	<new>							7	
615587		2,4-Dibromophenol	<new>							7	
35109605		2,3-Dibromopropyl-2,4,6-tribromophenyl ether {DPTE}	<new>							7	
183658277		2-Ethyl-1-hexyl-2,3,4,5-tetrabromobenzoate {TBB}	<new>							7	
860302336		Firemaster® 550	<new>							7	
87821		Hexabromobenzene {HBB}	<new>							7	
59080409		2,2',4,4',5,5'-Hexabromobiphenyl	<new>					5			
67774327		Hexabromobiphenyl mixture including Firemaster FF-1	<new>					5			
36355018		Hexabromobiphenyls	<new>					5			
25637994		Hexabromocyclododecane {HBCD}	<new>							7	
51936551		Hexachlorocyclopentadienyl-dibromocyclooctane	<new>							7	
20566352		2-Hydroxypropyl 2-(2-hydroxyethyl)ethyl tetrabromophthalate	<new>							7	
203210699		2-Hydroxypropyl 2-(2-hydroxyethyl)ethyl tetrabromophthalate (alt. CAS No. 1, see CAS 20566352)	<new>							7	[21]
1150314503		2-Hydroxypropyl 2-(2-hydroxyethyl)ethyl tetrabromophthalate (alt. CAS No. 2, see CAS 20566352)	<new>							7	[21]
1429904277		2-Hydroxypropyl 2-(2-hydroxyethyl)ethyl tetrabromophthalate (alt. CAS No. 3, see CAS 20566352)	<new>							7	[21]
< 4 Digit ID>		Isobutoxypentabromocyclododecanes {iBPBCDs}	<new>							7	
155613937		Octabromotrimethylphenylindane {OBIND}	<new>							7	
-		PBDEs (see Polybrominated diphenyl ethers)	<new>							7	
85223		Pentabromoethylbenzene {PBEB}	<new>							7	
608719		Pentabromophenol {PBP}	<new>							7	
87832		Pentabromotoluene {PBT}	<new>							7	
42757551		1,1'-Sulfonylbis[3,5-dibromo-4-(2,3- dibromopropoxy) benzene	<new>							7	
79947		Tetrabromobisphenol A {TBBPA}	<new>	c		3	4				
21850442		Tetrabromobisphenol A bis(2,3-dibromopropyl) ether {TBBPA-DBPE}	<new>							7	
4162452		Tetrabromobisphenol A bis(2-hydroxyethyl) ether	<new>							7	
25327893		Tetrabromobisphenol A diallyl ether	<new>							7	
37769316		Tetrabromobisphenol A diallyl ether (alt. CAS, see CAS 25327893)	<new>							7	[21]
77098078		Tetrabromophthalic acid, mixed esters	<new>							7	
75790691		Tetrabromophthalic acid, mixed esters (alt. CAS, see CAS 75790691)	<new>							7	[21]
23488382		2,3,5,6-Tetrabromo-p-xylene	<new>							7	
36483575		Tribromoneopentylalcohol	<new>							7	

Appendix A-I: Substances for Which Emissions Must be Quantified

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)							Other
118796		2,4,6-Tribromophenol	<new>									7	
115968		Tris(2-chloroethyl) phosphate {TCEP}	<new>	c					4				
13674845		Tris(1-chloro-2-propyl)phosphate {TCPP}	<new>									7	
1689320		Tris(1-chloro-2-propyl)phosphate {TCPP} (alt. CAS No. 1, see CAS 13674845)	<new>									7	[21]
98112324		Tris(1-chloro-2-propyl)phosphate {TCPP} (alt. CAS No. 2, see CAS 13674845)	<new>									7	[21]
52434909		Tris(2,3-dibromopropyl) isocyanurate	<new>									7	
126727	e	Tris(2,3-dibromopropyl) phosphate {TDBPP}	<new>									7	
13674878		Tris(1,3-dichloro-2-propyl) phosphate {TCDP} {TDCPP}	<new>	c					4				
78433		Tris(2,3-dichloro-1-propyl) phosphate	<new>									7	
19186971		Tris(tribromoneopentyl)phosphate	<new>									7	
25713604		2,4,6-Tris(2,4,6-tribromophenoxy)-1,3,5-triazine	<new>									7	
56362017		2,4,6-Tris(2,4,6-tribromophenoxy)-1,3,5-triazine (alt. CAS No. 1, see CAS 25713604)	<new>									7	[21]
157971545		2,4,6-Tris(2,4,6-tribromophenoxy)-1,3,5-triazine (alt. CAS No. 2, see CAS 25713604)	<new>									7	[21]
136991021		2,4,6-Tris(2,4,6-tribromophenoxy)-1,3,5-triazine (alt. CAS No. 3, see CAS 25713604)	<new>									7	[21]
7726956	e	Bromine			0.5		2						
*	e	Bromine compounds (inorganic) including but not limited to:			100	1	2						[7]
15541454		Bromate	<new>	c					4				
7789302	e	Bromine pentafluoride	11/06		100							7	
10035106	e	Hydrogen bromide	11/06		20							7	
7758012	e	Potassium bromate		c	0.1	1		3	4				[7]
108861		Bromobenzene	<new>				2*					7	
5589968		Bromochloroacetic acid	<new>	c				3	4				
83463621		Bromochloroacetonitrile	<new>									7	
109706		1-Bromo-3-chloropropane	<new>	c				3					
71133147		Bromodichloroacetic acid	<new>	c					4				
74975		Bromodichloromethane {BDCM}	<new>									7	
74964		Bromoethane	<new>	c					4				
75252	e	Bromoform	06/91	c	100	1	2	~~3~~	4				
27497514		Bromonaphthalene	<new>				2*					7	
106945		1-Bromopropane (see n-Propyl Bromide)	<new>	c				3	4	5	6		
75263		2-Bromopropane	<new>						4				
1689992		Bromoxynil octanoate	<new>						4				[19]
106990	e	1,3-Butadiene		c	0.1	1	2	3	4	5			
57018527		1-tert-Butoxypropan-2-ol (see Glycol Ethers: Propylene glycol t-butyl ether)	<new>								6		
540885	e	t-Butyl acetate {TBAc}	11/06		200							7	
141322	e	Butyl acrylate	06/91		100	1							
71363	e	n-Butyl alcohol	06/91		100	1							
78922	e	sec-Butyl alcohol	06/91		100	1							
75650	e	tert-Butyl alcohol	06/91		100	1							
85687	e	Butyl benzyl phthalate {BBP} {BzBP} (see Phthalates, ortho-Phthalates)	06/91		100	1		~~3~~	4				
2426086		n-Butyl glycidyl ether {Butyl 2,3-epoxypropylether}	<new>	c				3	4		6		
81152		5-tert-Butyl-2,4,6-trinitro-m-xylene	<new>									7	
98511		p-tert-Butyl toluene	<new>				2*					7	
96480		gamma-Butyrolactone	<new>									7	
109740		n-Butryonitrile	<new>									7	
7440439	e	Cadmium		c	0.01	1	2	3	4	5			
*	e	Cadmium compounds including but not limited to:		c	0.01	1	2	3	4	5			[7]
10108642		Cadmium chloride	<new>	c				3	4			7	
141004		Cadmium succinate	<new>	c				3	4			7	
156627	e	Calcium cyanamide	06/91		100	1	2						
		Cannabis (Marijuana) smoke	<new>	c					4				
		Cannabis (Marijuana) vaping vapor	<new>						4				
105602	e	Caprolactam	06/91		100	1	2	~~3~~					
2425061	e	Captafol	09/89	c	100			3	4				
133062	e	Captan	09/90	c	100	1	2	~~3~~	4				
63252	e	Carbaryl [PAH-Derivative, POM]	06/91	c	100	1	2	~~3~~	4				
86748		Carbazole [PAH-derivative, POM]	<new>	c			2*	3	4				
1563662		Carbofuran	<new>									7	[19]
1333864		Carbon black	<new>	c				3	4				
1050	e	Carbon black extracts		c	2	1		3	4				
75150	e	Carbon disulfide	09/89		200	1	2		4				
--		Carbon nanotubes including but not limited to	<new>					3					

Appendix A-I: Substances for Which Emissions Must be Quantified

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)						Other
308068566		Carbon nanotubes, multiwalled, other than MWCNT-7	<new>	c				3				
56235	e	Carbon tetrachloride		c	1	1	2	3	4	5		
463581	e	Carbonyl sulfide	06/91		100	1	2					
1055	e	Carrageenan (degraded)		c	100			3	4			
120809	e	Catechol	06/91	c	100	1	2	3	4			
7440451		Cerium	<new>								7	
75876		Chloral	<new>	c			2*	3	4		7	
133904	e	Chloramben	06/91		100	1	2					
10599903		Chloramine	<new>								7	
72208		Endrin	<new>						4			[19]
115286	e	Chlorendic acid (see also Brominated and Chlorinated Organic Compounds used as Flame Retardants)	09/89	c				3	4	5		
108171262	e	Chlorinated paraffins (average chain length, C12; approximately 60% Chlorine by weight; this include	09/89	c	2			3	4	5		
7782505	e	Chlorine			0.5	1	2					
10049044	e	Chlorine dioxide	06/91		1	1						
79118	e	Chloroacetic acid	06/91		100	1	2					
107142		Chloroacetonitrile	<new>								7	
532274	e	2-Chloroacetophenone	06/91		0.1	1	2					
106478	e	p-Chloroaniline	07/96	c	100				4		7	
20265967		p-Chloroaniline hydrochloride	<new>	c					4			
1058	e	Chlorobenzenes including but not limited to:	06/91		100	1						
108907	e	Chlorobenzene			200	1	2					
25321226	e	Dichlorobenzenes (mixed isomers) including:	06/91		100	1					7	
95501	e	1,2-Dichlorobenzene	06/91		200	1					7	
541731	e	1,3-Dichlorobenzene	06/91		100	1					7	
106467	e	p-Dichlorobenzene {1,4-Dichlorobenzene}		c	5	1	2	3	4	5		
634662		1,2,3,4-Tetrachlorobenzene	<new>								7	
95943		1,2,4,5-Tetrachlorobenzene	<new>								7	
12408105		Tetrachlorobenzene (mixed isomers)	<new>								7	
87616		1,2,3-Trichlorobenzene	<new>				2*				7	
120821	e	1,2,4-Trichlorobenzene	06/91		200	1	2					
510156	e	Chlorobenzilate [POM] {Ethyl-4,4'-dichlorobenzilate}	09/90	c	100	1	2	~~3~~	4			
98566		4-Chlorobenzotrifluoride {PCBTF} (see 1-Chloro-4-(trifluoromethyl)benzene)	<new>	c				3		6		
77439760		3-Chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone	<new>	c				3	4			
67663	e	Chloroform		c	10	1	2	3	4	5		
1319864		Chloromethoxy Propyl Mercuric Acetamide	<new>								7	[19]
107302	e	Chloromethyl methyl ether (technical grade)		c	100	1	2	3	4	5		
91587		2-Chloronaphthalene [PAH-related]	<new>								7	
--		Chloronitrobezenes including but not limited to:	<new>								7	
88733		1-Chloro-2-nitrobenzene {o-Chloronitrobenzene}	<new>	c			2*		4		7	
100005		1-Chloro-4-nitrobenzene {4-Chloronitrobenzene}	<new>	c				3	4			
89612		1,4-Dichloro-2-nitrobenzene	<new>	c				3*	4			
611063		2,4-Dichloro-1-nitrobenzene	<new>	c				3*	4			
121733		m-Chloronitrobenzene {3-Chloronitrobenzene}	<new>				2*				7	
82688	e	Pentachloronitrobenzene {Quintobenzene}	06/91		100	1	2					
1060	e	Chlorophenols including but not limited to:		c	100	1		3				
95578	e	2-Chlorophenol	11/06		10	1		3				
120832	e	2,4-Dichlorophenol	06/91	c	100	1					7	
583788		2,5-Dichlorophenol	<new>								7	
108430		3-Chlorophenol {m-Chlorophenol}	<new>			1	2*					
106489		4-Chlorophenol {p-Chlorophenol}	<new>			1	2*					
87865	e	Pentachlorophenol	09/90	c	10	1	2		4			
25167833	e	Tetrachlorophenols including but not limited to:	11/06		10						7	
58902	e	2,3,4,6-Tetrachlorophenol	07/96	c	100	1					7	
95954	e	2,4,5-Trichlorophenol	06/91	c	100	1	2					
136323		2,4,5-Trichlorophenol sodium salt	<new>								7	[19]
88062	e	2,4,6-Trichlorophenol		c	2	1	2	3	4			
3380345		Triclosan	<new>								7	
95830	e	4-Chloro-o-phenylenediamine		c	10			3	4	5		
76062	e	Chloropicrin			2						7	
126998	e	Chloroprene		c	5	1	2	3	4			
598787		2-Chloropropionic acid	<new>						4			

Appendix A-I: Substances for Which Emissions Must be Quantified

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)							Other
106434		p-Chlorotoluene	<new>				2*					7	
1897456		Chlorothalonil	<new>	c				3	4				
95794		5-Chloro-o-toluidine and its strong acid salts	<new>	c					4				
95692	e	p-Chloro-o-toluidine		c	0.5			3	4				
3165933		p-Chloro-o-toluidine Hydrochloride	<new>	c					4	5			
75729		Chlorotrifluoromethane	<new>				2*					7	
98566		1-Chloro-4-(trifluoromethyl)benzene {PCBTF}	<new>	c				3			6		
2921882		Chlorpyrifos	<new>						4				[19]
1861321		Chlorthal-dimethyl	<new>									7	[19]
7440473	e	Chromium	06/91		0.001			~~3~~				7	
*	e	Chromium compounds (other than hexavalent)	06/91		0.001	1	2						[7]
16065831		Chromium (III) compounds	<new>									7	
18540299	e	Chromium, hexavalent (and compounds) including but not limited to:		c	0.0001	1	2	3	4	5			[7]
10294403	e	Barium chromate	06/91	c	0.001	1	2		4	5			[7]
13765190	e	Calcium chromate	06/91	c	0.001	1	2		4	5			[7]
1333820	e	Chromium trioxide	06/91	c	0.0001	1	2		4	5			[7]
7758976	e	Lead chromate	06/91	c	0.001	1	2		4	5			[7]
10588019	e	Sodium dichromate	06/91	c	0.0001	1	2		4	5			[7]
7789062	e	Strontium chromate	06/91	c	0.001	1	2		4	5			[7]
-	e	Chrysene [PAH, POM], (see PAH)											
28407376		C.I. Direct Blue 218 [POM] (see Benzidine-based dyes)	<new>	c					4				
50293		Clofenotane {p,pDDT}	<new>	c				3					
< 4 Digit ID>		Coal dust	<new>									7	
8007452	e	Coal tars	09/89	c				3	4	5			
7440484	e	Cobalt	06/91	c	0.5			3	4			7	[7]
*	e	Cobalt compounds	06/91	c	0.5	1	2	3					[7]
< 4 Digit ID>		Cobalt compounds, insoluble, including but not limited to:	<new>	c				3					[7]
513791		Cobalt carbonate	<new>	c				3				7	[7]
10210681		Cobalt carbonyl	<new>									7	[7]
21041930		Cobalt hydroxide	<new>	c				3				7	[7]
814891		Cobalt oxalate	<new>	c				3				7	[7]
1307966		Cobalt [II] oxide	<new>	c				3	4				[7]
1308061		Cobalt [III] oxide	<new>	c				3				7	[7]
1317426		Cobalt sulfide	<new>	c				3				7	[7]
< 4 Digit ID>		Cobalt sulfate and other soluble cobalt compounds, including but not limited to:	<new>	c				3					[7]
71487		Cobalt acetate (tetrahydrate)	<new>	c				3				7	[7]
7646799		Cobalt chloride (hexahydrate)	<new>	c				3				7	[7]
16842038		Cobalt hydrocarbonyl	<new>									7	[7]
10141056		Cobalt nitrate (hexahydrate)	<new>	c				3				7	[7]
136527		Cobalt octoate	<new>	c				3				7	[7]
10124433		Cobalt sulfate	<new>	c				3	4				[7]
10026241		Cobalt sulfate (heptahydrate)	<new>	c				3	4			7	[7]
10026241		Other soluble cobalt (II) salts	<new>	c				3					[7]
12070121		Cobalt metal with tungsten carbide	<new>	c				3					
1066	e	Coke oven emissions		c	0.05	1	2	3	4	5			
7440508	e	Copper			0.1		2						
*	e	Copper compounds	09/89		0.1	1	2						[7]
		Copper fume	<new>									7	
~~1070~~ 8001589	e	Creosotes		c	0.05	1		3	4				
102501		meta-Cresidine	<new>									7	
120718	e	p-Cresidine		c	1			3	4	5			
1319773	e	Cresols (mixtures of) {Cresylic acid} including:			5	1	2						
108394	e	m-Cresol	06/91		5	1	2						
95487	e	o-Cresol	06/91		5	1	2						
106445	e	p-Cresol	06/91		5	1	2						
4170303	e	Crotonaldehyde	07/96	c	50			~~3~~				7	
98828	e	Cumene	06/91	c	200	1	2	3	4				
80159	e	Cumene hydroperoxide	06/91		100	1							
135206	e	Cupferron		c	0.5				4	5			
420042		Cyanamide {Hydrogen cyanamide}	<new>									7	[19]
1073	e	Cyanide compounds (inorganic) including but not limited to:	06/91		0.05	1	2						[8]
74908	e	Hydrogen cyanide {HCN} {Hydrocyanic acid}			10		2		4				[8]

Appendix A-I: **Substances for Which Emissions Must be Quantified**

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)							Other
341972314		Hydrogen cyanide {HCN} {Hydrocyanic acid} (alt. CAS No. 1, see CAS 74908)	<new>				2		4				[8] [21]
191234227		Hydrogen cyanide {HCN} {Hydrocyanic acid} (alt. CAS No. 2, see CAS 74908)	<new>				2		4				[8] [21]
592018		Calcium cyanide	<new>				2		4				[8]
151508		Potassium cyanide	<new>						4				[8]
143339		Sodium cyanide	<new>						4				[8]
372098		Cyanoacetic acid	<new>				2*					7	
1134232		Cycloate	<new>						4				[19]
< 4 Digit ID>		Cyclosiloxanes, including but not limited to:	<new>									7	
541026		Decamethylcyclopentasiloxane {D5} {Decamethyl-1,3,5,7,9,2,4,6,8,10-pentaoxapentasilecane}	<new>								6	7	
540976		Dodecamethylcyclohexasiloxane {D6}	<new>									7	
556672		Octamethylcyclotetrasiloxane {D4}	<new>									7	
294622		Cyclododecane	<new>									7	
110827	e	Cyclohexane	06/91		200	1							
1569693		Cyclohexanethiol	<new>									7	
108930	e	Cyclohexanol	07/96		200							7	
108941		Cyclohexanone	<new>				2*					7	
66819	e	Cycloheximide			2				4		6		
29965977		Cyclooctadienes	<new>				2*					7	
27208373		Cyclopenta[cd]pyrene [PAH-related]	<new>	c				3	4				
-	e	Decabromodiphenyl oxide [POM] (see Polybrominated diphenyl ethers)	06/91										
91178		Decahydronaphthalene	<new>				2*						
541026		Decamethylcyclopentasiloxane {D5} (see Cyclosiloxanes: Decamethylcyclopentasiloxane)	<new>								6	7	
1007289		Des-isopropyl atrazine	<new>						4				[19]
431038		Diacetyl	<new>								6		
1075	e	Dialkylnitrosamines including but not limited to:			0.001	1							
924163	e	N-Nitrosodi-n-butylamine		c	0.0001	1		3	4	5			
1116547	e	N-Nitrosodiethanolamine		c	100	1		3	4	5			
55185	e	N-Nitrosodiethylamine		c	0.001	1		3	4	5			
62759	e	N-Nitrosodimethylamine		c	0.01	1	2	3	4	5			
621647	e	N-Nitrosodi-n-propylamine		c	0.01	1		3	4	5			
10595956	e	N-Nitrosomethylethylamine		c	0.001	1		3	4				
7068839		N-Nitrosomethyl-n-butylamine	<new>	c					4				
75881220		N-Nitrosomethyl-n-decylamine	<new>	c					4				
55090443		N-Nitrosomethyl-n-dodecylamine	<new>	c					4				
16338991		N-Nitrosomethyl-n-heptylamine	<new>	c					4				
28538707		N-Nitrosomethyl-n-hexylamine	<new>	c					4				
75881195		N-Nitrosomethyl-n-nonylamine	<new>	c					4				
34423546		N-Nitrosomethyl-n-octylamine	<new>	c					4				
13256070		N-Nitrosomethyl-n-pentylamine	<new>	c					4				
924469		N-Nitrosomethyl-n-propylamine	<new>	c					4				
75881208		N-Nitrosomethyl-n-tetradecylamine	<new>	c					4				
68107266		N-Nitrosomethyl-n-undecylamine	<new>	c					4				
615054	e	2,4-Diaminoanisole		c	5			3	4				
5307142		1,4-Diamino-2-nitrobenzene	<new>									7	
99569		1,2-Diamino-4-nitrobenzene {4-Nitro-o-Phenylenediamine}	<new>									7	
1078	e	Diaminotoluenes (mixed isomers) including but not limited to:	09/90	c	100	1			4				
95807	e	2,4-Diaminotoluene {2,4-Toluene diamine}		c	0.05	1	2	3	4	5			
95705		2,5-Diaminotoluene {2,5-Toluene diamine}	<new>									7	
333415		Diazinon	<new>	c				3					[19]
136356		Diazoaminobenzene	<new>	c					4	5			
334883	e	Diazomethane	06/91	c	5	1	2	~~3~~					
226368	e	Dibenz[a,h]acridine [POM]		c	0.5	1	2	3	4	5			
224420	e	Dibenz[a,j]acridine [POM]		c	0.5	1	2	3	4	5			
224533		Dibenz[c,h]acridine [POM]	<new>	c				3					
-	e	Dibenz[a,h]anthracene [PAH, POM], (see PAH)											
194592	e	7H-Dibenzo[c,g]carbazole		c	0.05	1	2	3	4	5			
-	e	Dibenzo[a,e]pyrene [PAH, POM], (see PAH)											
-	e	Dibenzo[a,h]pyrene [PAH, POM], (see PAH)											
-	e	Dibenzo[a,i]pyrene [PAH, POM], (see PAH)											
-	e	Dibenzo[a,l]pyrene [PAH, POM], (see PAH)											
132649	e	Dibenzofuran [POM]	06/91		100	1	2						
-	e	Dibenzofurans (chlorinated) (see Polychlorinated dibenzofurans) [POM]											

Appendix A-I: **Substances for Which Emissions Must be Quantified**

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)						Other
631641		Dibromoacetic acid	<new>	c				3	4			
3252435		Dibromoacetonitrile	<new>	c				3	4			
124481		Dibromochloromethane {DBCM}	<new>								7	
96128	e	1,2-Dibromo-3-chloropropane {DBCP}		c	0.01	1	2	3	4	5		
615587		2,4-Dibromophenol (see Brominated and Chlorinated Organic Compounds Used as Flame Retardants	<new>								7	
96139	e	2,3-Dibromo-1-propanol	07/96	c	50				4			
84742	e	Dibutyl phthalate {Di-n-butyl phthalate} {DBP} {DnBP} (see Phthalates, ortho-Phthalates)	06/91		100	1	2		4			
79436		Dichloroacetic acid	<new>	c				3	4			
7572294		Dichloroacetylene	<new>								7	
27134276		Dichloroaniline (mixed isomers)	<new>				2*					
-	e	p-Dichlorobenzene (1,4-Dichlorobenzene) (see Chlorobenzenes)										
91941	e	3,3'-Dichlorobenzidine [POM]		c	0.1	1	2	3	4	5		
612839		3,3'-Dichlorobenzidine dihydrochloride	<new>	c					4	5		
110576		trans-1,4-Dichlorobutene	<new>								7	
72559	e	Dichlorodiphenyldichloroethylene {DDE} [POM]	09/89	c	100	1	2		4			
75343	e	1,1-Dichloroethane {Ethylidene dichloride}	09/90	c	20	1	2		4			
156592		cis-1,2-Dichloroethene {cis-1,2-Dichloroethylene}	<new>							6		
540590		1,2-Dichloroethene {1,2-Dichloroethylene} {DCE}	<new>							6		
156605		trans-1,2-Dichloroethene {trans-1,2-Dichloroethylene}	<new>							6		
611063		2,4-Dichloro-1-nitrobenzene (see Chloronitrobenzenes)	<new>	c				3*	4			
~~94757~~ --	e	Dichlorophenoxyacetic acid~~,~~ {2,4-D} and its salts and esters ~~{2,4-D}~~ including but not limited to:	06/91	c	100	1	2	3				
94757		2,4-Dichlorophenoxyacetic acid {2,4-D}	<new>	c	100	1	2	3				
2702729		2,4-Dichlorophenoxyacetic acid salt	<new>	c	100	1	2	3				
5742198		2,4-Dichlorophenoxyacetic acid diethanolamine salt	<new>	c	100	1	2	3			7	
2008391		2,4-Dichlorophenoxyacetic acid dimethylamine salt	<new>	c	100	1	2	3			7	
5742176		2,4-Dichlorophenoxyacetic acid isopropylamine salt	<new>	c	100	1	2	3			7	
32341803		2,4-Dichlorophenoxyacetic acid isopropanolamine salt	<new>	c	100	1	2	3			7	
1929733		2,4-Dichlorophenoxyacetic acid butoxyethyl ester	<new>	c	100	1	2	3			7	
94804		2,4-Dichlorophenoxyacetic acid butyl ester	<new>	c	100	1	2	3			7	
1928434		2,4-Dichlorophenoxyacetic acid 2-ethylhexyl ester	<new>	c	100	1	2	3			7	
94111		2,4-Dichlorophenoxyacetic acid isopropyl ester	<new>	c	100	1	2	3			7	
25168267		2,4-Dichlorophenoxyacetic acid isooctyl ester	<new>	c	100	1	2	3			7	
1048373723		2,4-Dichlorophenoxyacetic acid choline salt	<new>	c	100	1	2	3			7	
609201		2,6-Dichloro-p-phenylenediamine	<new>			1	2	~~3~~			7	[19]
78875	e	1,2-Dichloropropane {Propylene dichloride}	09/90	c	20	1	2		4			
542756	e	1,3-Dichloropropene		c	10	1	2	3	4	5		
96231		1,3-Dichloro-2-propanol	<new>	c				3	4			
62737	e	Dichlorevos {DDVP}	09/89	c	0.5	1	2	3	4			
51338273		Diclofop methyl	<new>	c					4			[19]
115322	e	Dicofol [POM]	06/91		100	1	2	~~3~~				
84617		Dicyclohexyl phthalate {DCHP} (see Phthalates, ortho-Phthalates)	<new>								7	
--	e	Diesel engine exhaust	09/90	c		1		3	4			[9]
9901	e	Diesel engine exhaust, particulate matter {Diesel PM}	09/90	c	0.1	1		3	4			[9]
9902	e	Diesel engine exhaust, total organic gas	09/90	c	10	1		3	4			[9]
#	e	Diesel fuel (marine)	06/91	c								[1]
111422	e	Diethanolamine	06/91	c	20	1	2	3	4			
579668		2,6-Diethylaniline	<new>				2*				7	
111400		Diethylenetriamine	<new>							6		
117817	e	Di(2-ethylhexyl) phthalate {DEHP}		c	20	1	2	3	4	5		
84662	e	Diethyl phthalate (see Phthalates, ortho-Phthalates)	06/91								7	
64675	e	Diethyl sulfate		c	100	1	2	3	4	5		
84753		Di-n-hexyl phthalate {DnHP} (see Phthalates, ortho-Phthalates)	<new>						4			
84695		Di-isobutyl phthalate {DIBP} (see Phthalates, ortho-Phthalates)	<new>									
26761400		Di-isodecyl phthalate (see Phthalates, ortho-Phthalates)	<new>						4	5		
68515491		Di-isodecyl phthalate, C9-11 branched esters, C10 rich (see Phthalates, ortho-Phthalates)	<new>						4	5		
89167		Di-isodecyl phthalate mixture {Bis(8-methylnonyl) phthalate} (see Phthalates, ortho-Phthalates)	<new>						4	5		
119394455		Di-isodecyl phthalate mixture {1,2-Benzenedicarboxylic acid, 4,4'-carbonylbis-, 1,1',2,2'-tetraisodecyl	<new>						4	5		
28553120		Di-isononyl phthalate {DINP} (see Phthalates, ortho-Phthalates)	<new>	c					4			
68515480		Di-isononyl phthalate {DINP}, C8-10 branched esters, C9 rich (see Phthalates, ortho-Phthalates)	<new>	c					4			
2973106		Diisopropyl sulfate	<new>	c				3	4			
60515		Dimethoate	<new>								7	[19]
828002		Dimethoxane	<new>								7	[19]

Appendix A-I: **Substances for Which Emissions Must be Quantified**

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)						Other
119904	e	3,3'-Dimethoxybenzidine [POM]		c	100	1	2	3	4	5		
25962770		trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)-vinyl]-1,3,4-oxadiazole	<new>	c				3	4			
612828		3,3'-Dimethylbenzidine dihydrochloride (see Benzidine-based dyes)	<new>	c					4			
91930		3,3'-Dimethoxybenzidine-4,4'-diisocyanate (see Isocyanates-diisocyanates)	<new>								7	
627930		Dimethyl Adipate	<new>							6		
124403		Dimethylamine	<new>				2*				7	
60117	e	4-Dimethylaminoazobenzene [POM]		c	0.01	1	2	3	4	5		
140567		p-Dimethylaminoazobenzenediazo sodium sulfonate	<new>								7	[19]
121697	e	N,N-Dimethylaniline	06/91		200	1	2					
75605		Dimethylarsinic acid	<new>	c				3				[19]
57976	e	7,12-Dimethylbenz[a]anthracene [PAH-Derivative, POM]	09/90	c	0.0001	1	2		4			
119937	e	3,3'-Dimethylbenzidine {o-Tolidine} [POM]		c	10	1	2	3	4	5		
79447	e	Dimethyl carbamoyl chloride		c	100	1	2	3	4	5		
68122	e	Dimethyl formamide	09/90	c	100	1	2	3				
1119400		Dimethyl Glutarate {glutaric acid dimethyl ester}	<new>							6		
57147	e	1,1-Dimethylhydrazine		c	0.1	1	2	3	4	5		
868859		Dimethyl hydrogen phosphite	<new>								7	
1456286		2,6-Dimethyl-N-nitrosomorpholine	<new>	c					4			
131113	e	Dimethyl phthalate {DMP} (see Phthalates, ortho-Phthalates)	06/91		50	1	2					
77781	e	Dimethyl sulfate		c	0.01	1	2	3	4	5		
120616		Dimethyl terephthalate (see Phthalates, ortho-Phthalates)	<new>				2*				7	
99978		Dimethyl-p-toluidine	<new>	c				3	4	6		
534521	e	4,6-Dinitro-o-cresol (and salts)	06/91		100	1	2					
105735715		3,7-Dinitrofluoranthene	<new>	c				3	4			
22506532		3,9-Dinitrofluoranthene	<new>	c				3	4			
51285	e	2,4-Dinitrophenol	06/91		100	1	2					
75321209		1,3-Dinitropyrene [PAH-related]	<new>	c				3	4			
42397648	e	1,6-Dinitropyrene [PAH-Derivative, POM]	06/91	c	0.001	1	2	3	4			
42397659	e	1,8-Dinitropyrene [PAH-Derivative, POM]	06/91	c	0.05	1	2	3	4			
101257		Dinitrosopentamethylenetetramine (see N,N'-Dinitrosopentamethylenetetramine)	<new>								7	
25321146	e	Dinitrotoluenes (mixed isomers) including but not limited to:	06/91		100				4		~~7~~	
121142	e	2,4-Dinitrotoluene	09/89	c	0.5	1	2		4			
1326416		2,4-Dinitrotoluene, sulfurized	<new>	c		1	2	3	4			
606202	e	2,6-Dinitrotoluene	06/91	c	~~100~~ 0.5			3	4		~~7~~	
618859		3,5-Dinitrotoluene	<new>								7	
123911	e	1,4-Dioxane		c	5	1	2	3	4	5		
-	e	Dioxins (Chlorinated dibenzodioxins) (see Polychlorinated dibenzo-p-dioxins) [POM]										
646060		1,3-Dioxolane	<new>				2*				7	
131180		Di-n-pentyl phthalate (see Phthalates, ortho-Phthalates)	<new>								7	
122394		Diphenylamine	<new>				2*				7	
630933	e	Diphenylhydantoin [POM]		c	100	1	2		4			
122667	e	1,2-Diphenylhydrazine {Hydrazobenzene} [POM]		c	100	1	2		4	5		
102089		Diphenyl thiourea	<new>				2*				7	
136458		Di-n-propyl isocinchomeronate {MGK Repellent 326}	<new>	c					4			
85007		Diquat dibromide	<new>								7	[19]
2764729		Diquat dibromide mixture, usually as dibromide	<new>								7	[19]
138932		Disodium cyanodithioimidocarbonate	<new>						4			
330541		Diuron	<new>	c					4			[19]
112550		1-Dodecanethiol	<new>								7	
115297		Endosulfan	<new>								7	[19]
36355018		Hexabromobiphenyls (see Brominated and Chlorinated Organic Compounds Used as Flame Retardai	<new>							5		
1090	e	Environmental Tobacco Smoke		c	2	1		3	4			
106898	e	Epichlorohydrin		c	2	1	2	3	4	5		
< 4 Digit ID>		Epoxy Resins (monomers or oligomers) including but not limited to:	<new>									
< 4 Digit ID>		Epikote ®	<new>							6		
68038324		Epikote 1055	<new>									
< 4 Digit ID>		Epon ®	<new>							6		
25068386		Resin 828	<new>									
67891752		Epoxidized olefins	<new>							6		
106887	e	1,2-Epoxybutane	06/91		100	1	2					
1091	e	Epoxy resins	09/89		100					6		

Appendix A-I: Substances for Which Emissions Must be Quantified

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)							Other
13194484		Ethoprop	<new>	c					4				[19]
141786		Ethyl acetate	<new>								6		
140885	e	Ethyl acrylate		c	200	1	2	3	4	5			
103695		N-Ethylaniline	<new>				2*					7	
578541		o-Ethylaniline	<new>				2*					7	
100414	e	Ethyl benzene	06/91	c	200	1	2	3					
-	e	Ethyl carbamate (see Urethane)		c	0.1	1	2	3	4	5			
75003	e	Ethyl chloride {Chloroethane}			200	1	2		4				
7085850		Ethyl cyanocrylate	<new>								6		
-	e	Ethyl-4,4'-dichlorobenzilate (see Chlorobenzilate)											
759944		Ethyl dipropylthiocarbamate {EPTC}	<new>						4				[19]
74851	e	Ethylene	06/91		200							7	
107153		Ethylenediamine	<new>				2*						[19]
106934	e	Ethylene dibromide {EDB, 1,2-Dibromoethane}		c	0.5	1		3	4	5	6		
107062	e	Ethylene dichloride {EDC, 1,2-Dichloroethane}		c	2	1	2	3	4	5			
107211	e	Ethylene glycol	06/91		200	1	2						
151564	e	Ethyleneimine {Aziridine}	06/91	c	100	1	2		4				
75218	e	Ethylene oxide		c	0.5	1	2	3	4	5	6		
420122		Ethylene sulfide	<new>									7	
96457	e	Ethylene thiourea		c	2	1	2	~~3~~	4	5			
103117		2-Ethylhexyl acrylate	<new>									7	
97632		Ethyl methacrylate	<new>								6		
56382		Ethyl parathion	<new>									7	[19]
637923		Ethyl-tert-butyl ether {ETBE}	<new>						4				
22224926		Fenamiphos	<new>									7	[19]
66441234		Fenoxaprop ethyl	<new>						4				[19]
72490018		Fenoxycarb	<new>	c					4				[19]
51630581		Fenvalerate	<new>									7	[19]
--		Flame retardants (see also Brominated and Chlorinated Organic Compounds Used as Flame Retarda	<new>									7	
69806504		Fluazifop butyl	<new>						4				[19]
1101	e	Fluorides and compounds including but not limited to:	09/89		100		2						
7664393	e	Hydrogen fluoride			50	1	2					7	
< 4 Digit ID>		Modified Hydrogen fluoride {MHF}	<new>									7	
15096523		Sodium aluminum fluoride	<new>									7	
7681494		Sodium fluoride	<new>									7	
1103	e	Fluorocarbons (brominated)			200						6		[10]
1104	e	Fluorocarbons (chlorinated) including but not limited to:			200	1					6		[10]
76131	e	Chlorinated fluorocarbon {CFC-113} {1,1,2-Trichloro-1,2,2-trifluoroethane}			200	1	2				6		
75456	e	Chlorodifluoromethane {Freon 22}	07/96		200	1					6	7	
75718	e	Dichlorodifluoromethane {Freon 12}	11/06		200							7	
75434	e	Dichlorofluoromethane {Freon 21}	07/96		200	1					6	7	
75694	e	Trichlorofluoromethane {Freon 11}	07/96		200	1					6	7	
406906		Fluoroxene	<new>									7	
69409945		Fluvalinate	<new>						4				[19]
50000	e	Formaldehyde		c	5	1	2	3	4	5	6		
75127		Formamide	<new>				2*					7	
64186		Formic Acid	<new>				2*				6	7	
39148248		Fosetyl-al	<new>									7	[19]
110009	e	Furan	07/96	c	5			3	4				
98011		Furfural	<new>									7	
98000		Furfuryl alcohol	<new>	c				3	4				
--		Fusarium, Fusarium moniliforme, and its derivatives	<new>	c				3	4				
116355830		Fumonisin B1	<new>	c				3	4				
116355841		Fumonisin B2	<new>	c				3	4				
79748815		Fusarin C	<new>	c				3	4				
1222055		Galaxolide	<new>									7	
1303000		Gallium arsenide (see Arsenic compounds (inorganic))	<new>	c				3	4				
--	e	Gasoline engine exhaust including but not limited to:	09/89	c				3					[9]
--	e	Gasoline engine exhaust (condensates & extracts)	06/91	c				3	4				[9]
9910	e	Gasoline engine exhaust, particulate matter	09/90	c	100			3	4				[9]
9911	e	Gasoline engine exhaust, total organic gas	09/90	c	100			3	4				[9]
1110	e	Gasoline vapors		c	200	1	2	3	4				[11]

Appendix A-I: Substances for Which Emissions Must be Quantified

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)							Other
548629		Gentian Violet (Crystal Violet)	<new>	c					4				
111308	e	Glutaraldehyde			0.1	1					6		
56826		Glyceraldehyde (DL-Glyceraldehyde mixture)	<new>				2*					7	
453178		Glyceraldehyde, D+ stereoisomer	<new>				2*					7	
497096		Glyceraldehyde, L- stereoisomer	<new>				2*					7	
106912		Glycidyl methacrylate	<new>	c				3					
1115	e	Glycol ethers and their acetates, and related, including but not limited to:			100	1	2				6		
111466	e	Diethylene glycol	09/90		100	1					6		
112732		Diethylene glycol dibutyl ether {DEGBE}	<new>				2*					7	
111966	e	Diethylene glycol dimethyl ether	09/90		100	1	2				6		
112345	e	Diethylene glycol monobutyl ether	09/90		100	1	2				6		
124174		Diethylene glycol monobutyl ether acetate	<new>				2*					7	
111900	e	Diethylene glycol monoethyl ether	09/90		100	1	2				6		
112152		Diethylene glycol monoethyl ether acetate	<new>				2*					7	
112594		Diethylene glycol monohexyl ether	<new>				2*					7	
111773	e	Diethylene glycol monomethyl ether	09/90		100	1	2				6		
629389		Diethylene glycol monomethyl ether acetate	<new>				2*					7	
25265718	e	Dipropylene glycol	09/90		100	1					6		
34590948	e	Dipropylene glycol monomethyl ether	09/90		100	1					6		
111557		Ethylene glycol diacetate	<new>				2*					7	
112481		Ethylene glycol dibutyl ether	<new>				2*					7	
629141	e	Ethylene glycol diethyl ether	09/90		100	1	2				6		
97905		Ethylene glycol dimethacrylate {EGDMA}	<new>				2*				6	7	
110714	e	Ethylene glycol dimethyl ether	09/90		100	1	2				6		
542596		Ethylene glycol monoacetate	<new>				2*					7	
111762	e	Ethylene glycol monobutyl ether	09/90		200	1	2				6		
112072		Ethylene glycol monobutyl ether acetate	<new>				2*					7	
110805	e	Ethylene glycol monoethyl ether	09/89		50	1	2		4		6		
111159	e	Ethylene glycol monoethyl ether acetate	09/90		100	1	2		4		6		
112254		Ethylene glycol monohexyl ether	<new>				2*					7	
109864	e	Ethylene glycol monomethyl ether	09/89		10	1	2		4		6		
110496	e	Ethylene glycol monomethyl ether acetate	09/90		200	1	2		4		6		
10020436		Ethylene glycol monooctyl ether	<new>				2*					7	
122996		Ethylene glycol monophenyl ether	<new>				2*					7	
2807309	e	Ethylene glycol monopropyl ether	09/90		100	1	2				6		
57018527		Propylene glycol t-butyl ether	<new>								6		
107982	e	Propylene glycol monomethyl ether	09/90		200	1					6		
108656	e	Propylene glycol monomethyl ether acetate	09/90		100	1					6		
112492	e	Triethylene glycol dimethyl ether	09/90		100	1	2				6		
112505		Triethylene glycol monoethyl ether	<new>				2*					7	
112356		Triethylene glycol monomethyl ether	<new>				2*					7	
107164		Glycolonitrile	<new>									7	
107222		Glyoxal	<new>				2*					7	
1071836		Glyphosate	<new>	c					4				[19]
319846	e	alpha-Hexachlorocyclohexane	07/96	c	0.1	1		3	4	5		7	
142825		Heptane	<new>								6		
96048		2,3-Heptanedione	<new>									7	
1639094		1-Heptanethiol	<new>									7	
319857	e	beta-Hexachlorocyclohexane	07/96	c	0.1	1		3	4	5		7	
59080409		2,2',4,4',5,5'-Hexabromobiphenyl (see Brominated and Chlorinated Organic Compounds Used as Flar	<new>							5			
67774327		Hexabromobiphenyl mixture including Firemaster FF-1 (see Brominated and Chlorinated Organic Cor	<new>							5			
25637994		Hexabromocyclododecane {HBCD} (see also Brominated and Chlorinated Organic Compounds used	<new>									7	
36355018		Hexabromobiphenyls (see Brominated and Chlorinated Organic Compounds Used as Flame Retard	<new>							5			
87683	e	Hexachlorobutadiene	06/91	c	0.1	1	2	~~3~~	4				
608731	e	Hexachlorocyclohexanes (mixed or technical grade) including but not limited to:		c	0.05	1		3	4	5			
1336363	e	PCBs (Polychlorinated biphenyls), total [POM] including but not limited to:		c	0.01	1	2	3	4	5	6		
32598133	e	3,3',4,4'-TETRACHLOROBIPHENYL (PCB 77)	11/06	c	0.01		2	3	4	5			
58899	e	Lindane {gamma-Hexachlorocyclohexane}	09/90	c	0.1	1	2	3	4				
77474	e	Hexachlorocyclopentadiene			2	1	2						
67721	e	Hexachloroethane	09/90	c	200	1	2	3	4				
70304		Hexachlorophene	<new>									7	
142836		2,4-Hexadienal	<new>	c				3					

Appendix A-I: Substances for Which Emissions Must be Quantified

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)	Other
684162		Hexafluoroacetone	<new>			4	
100970		Hexamethylenetetramine	<new>			7	
680319	e	Hexamethylphosphoramide		c	100	1 2 3 4 5	
110543	e	Hexane {n-Hexane}	06/91		200	1 2 4	
3848246		2,3-Hexanedione	<new>			7	
110134		2,5-Hexanedione	<new>			4	
111319		n-Hexanethiol	<new>			7	
302012	e	Hydrazine		c	0.01	1 2 3 4 5	
7647010	e	Hydrochloric acid			20	1 2 ~~3~~	
58935		Hydrochlorothiazide	<new>	c		3	
-	e	Hydrocyanic acid (see Cyanide compounds)					
420042		Hydrogen cyanamide {Cyanamide}	<new>			7	[19]
7722841		Hydrogen peroxide (excluding 5% or less solutions)	<new>			7	
7783064	e	Hydrogen sulfide			5	1 2	
123319	e	Hydroquinone	06/91		100	1 2 ~~3~~	
1689823		4-Hydroxyazobenzene	<new>			7	
35554440		Imazalil	<new>	c		4	[19]
-	e	Indeno[1,2,3-cd]pyrene [PAH, POM], (see PAH)					
50926119		Indium tin oxide	<new>	c		3	
36734197		Iprodione	<new>	c		4	[19]
13463406	e	Iron pentacarbonyl	07/96		5	7	
106638		Isobutyl acrylate	<new>			2* 7	
78831		Isobutyl alcohol				7	
97869		Isobutyl Methacrylate	<new>			6	
542563		Isobutyl nitrite	<new>	c		4	
115117		Isobutylene	<new>			2* 7	
78820		Isobutyronitrile	<new>			7	
1125	e	Isocyanates including but not limited to:			0.05	6	
		Amino Isocyanates including but not limited to:	<new>			6 7	
		1,6-Hexamethylene amino isocyanate	<new>			6 7	
		4,4-Methylenebisphenyl amino isocyanate	<new>				
		2,4-Toluene amino isocyanate	<new>			6 7	
		2,6-Toluene amino isocyanate	<new>			6 7	
		4,2-Toluene amino isocyanate	<new>			6 7	
		Diisocyanates including but not limited to:	<new>				
91930		3,3'-Dimethoxybenzidine-4,4'-diisocyanate	<new>			7	
822060	e	1,6-Hexamethylene diisocyanate	06/91		0.05	1 2 6 7	
4098719		Isophorone diisocyanate {IPDI}	<new>			6 7	
TBD		Isophorone diisocyanate isomers {IDPI}	<new>			6 7	
101688	e	Methylene diphenyl diisocyanate {MDI} [POM]	06/91		0.1	1 2 6 7	
3173726		1,5-Naphthalene diisocyanate	<new>			7	
		Mono isocyanates including but not limited to:	<new>				
109900		Ethyl isocyanate	<new>			6 7	
624839	e	Methyl isocyanate {MIC}			1	1 2 4	
110781		Propyl isocyanate	<new>			6 7	
103719		Phenyl isocyanate	<new>			6 7	
		Polymeric (Oligo) HDI including but not limited to:	<new>				
108190		Biuret	<new>			6 7	
		Diisocyanurate	<new>			6 7	
		HDI Prepolymer	<new>			6 7	
		Isocyanurate	<new>			6 7	
		Uritidone	<new>			6 7	
26471625	e	Toluene diisocyanates including but not limited to:	06/91	c			
584849	e	Toluene-2,4-diisocyanate (see Toluene diisocyanates)		c		1 2 3 4 5	
91087	e	Toluene-2,6-diisocyanate (see Toluene diisocyanates)		c		1 2 3 4 5	
78591	e	Isophorone	06/91		200	1 2	
78795	e	Isoprene, except from vegetative emission sources	07/96	c	200	3 4	
67630	e	Isopropyl alcohol	06/91		200	1 ~~3~~	
80057	e	4,4'-Isopropylidenediphenol [POM]	06/91		100	1 2	
4016142		Isopropyl glycidyl ether	<new>			6	
143390890		Kresoxim-methyl	<new>	c		4	[19]
7439910		Lanthanum	<new>			7	

Appendix A-I: Substances for Which Emissions Must be Quantified

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)						Other
105748		Lauroyl peroxide	<new>								7	
7439921	e	Lead		c	0.5	1		3	4	6		
1128	e	Lead compounds (inorganic) including but not limited to:		c	0.5	1		3	4			[7]
301042	e	Lead acetate		c	1	1	2		4	5		[7] [12]
-	e	Lead chromate (see Chromium, hexalent)							4			
7446277	e	Lead phosphate		c	2	1			4	5		[7]
1335326	e	Lead subacetate	09/90	c	2	1	2		4			[7] [12]
1129	e	Lead compounds (other than inorganic)	06/91		5	1	2		4			[7]
78002		Tetraethyllead	<new>				2*		4		7	
75741		Tetramethyllead	<new>				2*		4		7	
< 4 Digit ID>		Leather dust	<new>	c				3	4	6*		
330552		Linuron	<new>						4			[19]
121755		Malathion	<new>	c					4			[19]
108316	e	Maleic anhydride			0.5	1	2					
542789		Malonaldehyde	<new>								7	
109773		Malononitrile	<new>								7	
7439965	e	Manganese			0.1	1	2					
*	e	Manganese compounds	09/89		0.1	1	2					[7]
108781		Melamine	<new>								7	
77094112		MeIQ (see 2-Amino-3,4-dimethylimidazo[4,5-f]quinoline)	<new>	c				3	4			
77500040		MeIQx (see 2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline)	<new>	c				3	4			
149304		2-Mercaptobenzothiazole	<new>	c				3	4			
7439976	e	Mercury			1	1	2		4	6		
*	e	Mercury compounds including but not limited to:	09/89		1	1	2		4			[7]
7487947	e	Mercuric chloride			1		2		4			[7]
593748	e	Methyl mercury {Dimethylmercury}			1		2		4			[7]
137417		Metam potassium	<new>	c					4			[19]
137428		Metam sodium	<new>	c					4			[19]
79414		Methacrylic acid	<new>				2*			6	7	
10265926		Methamidophos	<new>								7	[19]
67561	e	Methanol			200	1	2		4			
950378		Methidathion	<new>								7	[19]
16752775		Methomyl	<new>								7	[19]
72435	e	Methoxychlor [POM]	06/91		100	1	2	~~3~~				
111966		2-Methoxyethyl ether (see Glycol ethers: Diethylene glycol dimethyl ether)	<new>			1	2			6		
150765		4-Methoxyphenol {1-Hyroxy-4-methoxybenzene} {Hydroquinone monomethyl ether}	<new>							6		
96333		Methyl acrylate	<new>	c				3*				
74895		Methylamine	<new>				2*				7	
		Methylanthracene [PAH-related]	<new>								7	
779022		9-Methylanthracene [PAH-related]	<new>								7	
124583		Methylarsonic acid (see Arsenic compounds (other than inorganic): Methylarsonic acid)	<new>	c				3				[19]
75558	e	2-Methylaziridine {1,2-Propyleneimine}		c	100	1	2	3	4			
2422799		12-Methylbenz(a)anthracene [PAH-related]	<new>								7	
65357699		Methylbenzopyrene [PAH-related]	<new>								7	
74839	e	Methyl bromide {Bromomethane}			20	1	2	~~3~~	4	6		
1634044	e	Methyl tert-butyl ether {MTBE}	06/91		200	1	2	~~3~~				
591786		Methyl-n-butyl ketone	<new>						4			
598550		Methyl carbamate	<new>	c					4			[19]
74873	e	Methyl chloride {Chloromethane}	06/91		20	1	2		4			
71556	e	Methyl chloroform {1,1,1-Trichloroethane}		c	200	1	2	3		6		
56495	e	3-Methylcholanthrene [PAH-Derivative, POM]	09/90	c	0.001	1	2		4			
3697243	e	5-Methylchrysene [PAH-Derivative, POM]		c	0.05	1	2	3	4	5		
41637905		6-Methylchrysene [PAH-Derivative, POM]	<new>								7	
99809		N-Methyl-N,4-dinitrosoaniline	<new>								7	
101144	e	4,4'-Methylene bis(2-chloroaniline) {MOCA} [POM]		c	0.1	1	2	3	4	5		
101688		4-4'-Methylene bisphenyl diisocyanate {4,4'-diphenylmethane diisocyanate} {4,4'-MDI}(see Isocyanate	<new>			1	2			6	7	
75092	e	Methylene chloride {Dichloromethane}		c	50	1	2	3	4	5	6	
101779	e	4,4'-Methylenedianiline ~~(and its dichloride) [POM]~~ {MDA}		c	0.1	1	2	3	4	5		
13552448		4,4'-Methylenedianiline dihydrochloride	<new>	c					4	5		
78933	e	Methyl ethyl ketone {2-Butanone}	06/91		200	1	2					
421205		Methyl fluorosulfonate	<new>								7	
		Methyl hydrazine and its salts	<new>						4			

Appendix A-I: Substances for Which Emissions Must be Quantified

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)							Other
60344	e	Methyl hydrazine	06/91	c	100	1	2		4				
5118343 302158		Methylhydrazine sulfate	<new>						4				
693981		2-Methylimidazole	<new>	c				3	4				
74884	e	Methyl iodide {Iodomethane}		c	100	1	2	~~3~~	4	5			
108101	e	Methyl isobutyl ketone {Hexone} {MIBK}	06/91	c	20	1	2	3	4				
822366		4-Methylimidazole	<new>	c				3	4				
75865	e	2-Methyllactonitrile {Acetone cyanohydrin}	07/96		50							7	
80626	e	Methyl methacrylate			200	1	2	~~3~~			6		
90120		1-Methylnaphthalene [PAH-related]	<new>									7	[19]
1321944		Methylnaphthalene (mixed) [PAH-related]	<new>									7	[19]
298000		Methyl parathion	<new>									7	[19]
832699		1-Methylphenanthrene [PAH-related]	<new>									7	
98851		Methyl phenyl carbinol	<new>				2*					7	
2381217		1-Methylpyrene [PAH-related]	<new>									7	
109068	e	2-Methylpyridine	07/96		100							7	
872504		N-methyl-2-pyrrolidone {N-Methylpyrrolidone} {NMP}	<new>						4		6		
98839		alpha-Methylstyrene (see Styrene: Methylstyrene)	<new>	c				3	4				
333277		Methyl triflate	<new>									7	
90948	e	Michler's ketone [POM]		c	0.1	1	2	3	4	5			
1136	e	Mineral fibers (fine mineral fibers which are man-made, and are airborne particles of a respirable size	06/91	c	100	1	2					7	
1056	e	Ceramic fibers	09/89	c	100	1	2	3	4				
1111	e	Glasswool fibers	09/89	c	100	1	2	~~3~~	4				
1168	e	Rockwool	09/89	c	100	1	2	3					
1181	e	Slagwool	09/89	c	100	1	2	~~3~~					
1135	e	Mineral fibers (other than man-made) including but not limited to:			100		2					7	
1332214	e	Asbestos		c	0.0001	1	2	3	4	5			
77536664		Actinolite	<new>	c		1		3					
12172735		Amosite	<new>	c		1		3					
77536675		Anthophyllite	<new>	c		1		3					
12001295		Chrysotile	<new>	c		1		3					
12001284		Crocidolite	<new>	c		1		3					
77536686		Tremolite	<new>	c		1		3					
12510428	e	Erionite		c	100		2	3	4				[21]
66733219		Erionite (alt. CAS, see CAS 12510428)	<new>	c			2	3	4				[21]
		Fluoro-edenite fibrous amphibole	<new>	c				3					
1190	e	Talc containing asbestiform fibers		c	100		2	3	4				
1313275	e	Molybdenum trioxide	06/91	c	100	1		3					
96242		3-Monochloro-1,2-propanediol	<new>	c				3	4				
100618		Monomethyl aniline {N-Methylaniline}	<new>									7	
124583		Monomethylarsonic acid (see Arsenic compounds (other than inorganic): Methylarsonic acid)	<new>	c				3					[19]
110918		Morpholine	<new>									7	
3795888		5-(Morpholinomethyl)-3-[(5-nitrofurfurylidene)-amino]-2-oxazolidinone	<new>	c				3	4				
88671890		Myclobutanil	<new>						4				[19]
123353		beta-Myrcene	<new>	c				3	4				
142596		Nabam	<new>						4				[19]
25134218		Nadic methyl anhydride	<new>								6		
		Naphtha (coal tar)	<new>									7	
-	e	Naph~~th~~thalene [PAH, POM], (see PAH)											
2243621		1,5-Naphthalenediamine [PAH-related]	<new>									7	
3173726		1,5-Naphthalene diisocyanate (see Isocyanates: diisocyanates)	<new>									7	
85472		alpha-Naphthalene sulfonic acid	<new>				2*					7	
120183		beta-Naphthalene sulfonic acid	<new>				2*					7	
135193		beta-Napthol	<new>				2*					7	
86884		1-Naphthylthiourea {ANTU} {1-(1-Naphthyl)-2-thiourea}	<new>									7	[19]
60391926		N-Carboxymethyl-N-nitrosourea	<new>	c					4				
7440020	e	Nickel		c	0.1	1	2	3	4	5			
*	e	Nickel compounds including but not limited to:		c	1	1	2	3	4	5			[7]
373024	e	Nickel acetate	06/91	c	0.1	1	2		4	5			[7]
3333673	e	Nickel carbonate	06/91	c	0.1	1	2		4	5			[7]
13463393	e	Nickel carbonyl		c	0.1	1	2		4	5			[7]
7718549		Nickel chloride	<new>			1	2		4	5			[7]

Appendix A-I: Substances for Which Emissions Must be Quantified

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)						Other
12054487	e	Nickel hydroxide	06/91	c	0.1	1	2		4	5		[7]
13138459		Nickel nitrate {Nickel (II) nitrate}	<new>			1	2		4	5		[7]
1271289	e	Nickelocene	06/91	c	0.1	1	2		4	5		[7]
1313991	e	Nickel oxide	06/91	c	0.1	1	2		4	5		[7]
12035722	e	Nickel subsulfide		c	0.1	1	2		4	5		[7]
7786814		Nickel sulfate	<new>			1	2		4	5		[7]
1146	e	Nickel refinery dust from the pyrometallurgical process	09/89	c	0.1				4			
1929824		Nitrapyrin	<new>	c					4			[19]
7697372	e	Nitric acid	06/91		50	1						
139139	e	Nitrilotriacetic acid		c	100	1		3	4	5		
602879	e	5-Nitroacenaphthene [PAH-Derivative, POM]	11/06	c	2	1	2	3	4			
99092		mono-Nitroaniline	<new>				2*				7	
88744		o-Nitroaniline	<new>				2*				7	
91236		o-Nitroanisole {2-Nitroanisole}	<new>	c				3				
100174		p-Nitroanisole	<new>	c			2*		4		7	
20268513		7-Nitrobenz[a]anthracene [PAH-related]	<new>								7	
17117349		3-Nitrobenzanthrone [PAH-related]	<new>	c				3				
98953	e	Nitrobenzene		c	0.5	1	2	3	4			
63041907		6-Nitrobenzo[a]pyrene [PAH-related]	<new>								7	
92933	e	4-Nitrobiphenyl [POM] [PAH-related]	09/89	c	100	1	2	~~3~~	4			
121733		3-Nitrochlorobenzene (see Chloronitrobenzenes: m-Chloronitrobenzene)	<new>				2*				7	
100005		4-Nitrochlorobenzene (see Chloronitrobenzenes: 1-Chloro-4-nitrobenzene)	<new>	c				3	4			
7496028	e	6-Nitrochrysene [PAH-Derivative, POM]	06/91	c	0.001	1	2	3	4			
892217		3-Nitrofluoranthene [PAH-related]	<new>								7	
607578	e	2-Nitrofluorene [PAH-Derivative, POM]	06/91	c	5	1	2	3	4			
126852		Nitrogen mustard N-oxide	<new>	c				3	4			
302705	e	Nitrogen mustard N-oxide Hydrochloride		c	0.05			~~3~~	4			
75525		Nitromethane	<new>	c				3	4	5		
86577		1-Nitronaphthalene {Nitrol} [PAH-related]	<new>				2*				7	
581895		2-Nitronaphthalene [PAH-related]	<new>								7	
		3-Nitroperylene [PAH-related]	<new>								7	
100027	e	4-Nitrophenol	06/91		100	1	2					
99569		4-Nitro-o-Phenylenediamine (see 1,2-Diamino-4-nitrobenzene)	<new>								7	
79469	e	2-Nitropropane		c	0.01	1	2	3	4	5		
5522430	e	1-Nitropyrene [PAH-Derivative, POM]	06/91	c	0.5	1	2	3	4			
789071		2-Nitropyrene [PAH-Derivative, POM]	<new>								7	
57835924	e	4-Nitropyrene [PAH-Derivative, POM]	11/06	c	1			3	4			
105555		N,N'-Diethylthiourea	<new>								7	
127195		N,N-Dimethylacetamide	<new>	c					4			
101257		N,N'-Dinitrosopentamethylenetetramine {Dinitrosopentamethylenetetramine}	<new>								7	
86306	e	N-Nitrosodiphenylamine [POM]	11/06	c	10	1	2	~~3~~	4			
156105	e	p-Nitrosodiphenylamine [POM]		c	5	1	2		4	5		
932832		N-Nitrosohexamethyleneimine	<new>	c					4			
684935	e	N-Nitroso-N-methylurea		c	100	1	2	3	4	5		
59892	e	N-Nitrosomorpholine		c	0.01	1	2	3	4	5		
100754	e	N-Nitrosopiperidine		c	1			3	4	5		
930552	e	N-Nitrosopyrrolidine		c	0.05			3	4	5		
--		Nitrotoluenes including but not limited to	<new>				2*					
88722		2-Nitrotoluene {o-Nitrotoluene}	<new>	c				3				
118967		2,4,6-Trinitrotoluene	<new>	c					4			
99081		3-Nitrotoluene {m-Nitrotoluene}	<new>				2*				7	
99990		4-Nitrotoluene {p-Nitrotoluene}	<new>				2*				7	
25321146		Dinitrotoluenes (mixed isomers) including but not limited to:	<new>								7	
121142		2,4-Dinitrotoluene	<new>	c		1	2	3	4			
1326416		2,4-Dinitrotoluene, sulfurized	<new>	c		1	2	3	4			
606202	e	2,6-Dinitrotoluene	06/91	c	0.5			3	4		7	
618859		3,5-Dinitrotoluene	<new>								7	
99558		5-Nitro-o-toluidine	<new>								7	
83410		Nitroxylene	<new>				2*				7	
25154523		Nonylphenol	<new>				2*				7	[19]
		Nonylphenol Ethoxylates	<new>								7	
27986363		2-(Nonylphenoxy)ethanol	<new>								7	

Appendix A-I: Substances for Which Emissions Must be Quantified

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)	Other
20427843		2-[2-(4-Nonylphenoxy)ethoxy]ethanol	<new>			7	
27176938		2-[2-(Nonylphenoxy)ethoxy]ethanol	<new>			7	
--		Novolac resins	<new>			6	
111886		1-Octanethiol	<new>			7	
27193288		Octylphenol	<new>			2* 7	
140669		4-t-Octylphenol	<new>			7	
*	e	Oleum (see Sulfuric acid and oleum)					
--		Organophosphate Flame Retardants (OPFRs) including:	<new>			7	[20]
225789388		Aluminum diethyl phosphinate	<new>			7	[20]
5945335		Bisphenol A bis(diphenyl phosphate) {BADP}	<new>			7	[20]
756796		Dimethyl methylphosphonate {DMMP}	<new>			7	[20]
57583547		Resorcinol bis(diphenylphosphate) {RDP}	<new>			7	[20]
126738		Tri-n-butyl phosphate {TBuP}	<new>			7	[20]
1330785		Tricresyl phosphate {TCP}	<new>			7	[20]
115866	e	Triphenyl phosphate [POM] {TPP}	<new>			1 2	[20]
19044883		Oryzalin	<new>	c		4	[19]
19666309		Oxadiazon	<new>	c		4	[19]
301122		Oxydemeton methyl	<new>			4	[19]
42874033		Oxyfluorfen	<new>			7	[19]
2439012		Oxythioquinox (Chinomethionat)	<new>	c		4	[19]
--	e	PAHs (Polycyclic aromatic hydrocarbons) [POM] including but not limited to:				1 2	[13]
1151	e	PAHs, total, w/o individ. components reported [PAH, POM]			50	1 2	
1150	e	PAHs, total, with individ. components also reported [PAH, POM]			50	1 2	
83329	e	Acenaphthene [PAH, POM]	07/96		50	1 ~~3~~	
208968	e	Acenaphthylene {Cyclopenta[cd]naphthalene} [PAH, POM]	07/96		50	1	
120127	e	Anthracene [PAH, POM]	06/91		50	1 2 7	
56553	e	Benz[a]anthracene [PAH, POM]		c	0.5	1 2 3 4 5	
202335		Benz[j]aceanthrylene [PAH, POM]	<new>	c		3	
203338		Benzo(a)fluoranthene [PAH, POM]	<new>			7	
50328	e	Benzo[a]pyrene [PAH, POM]		c	0.05	1 2 3 4 5	
205992	e	Benzo[b]fluoranthene [PAH, POM]		c	0.5	1 2 3 4 5	
205129		Benzo[c]fluorene [PAH, POM]	<new>			7	
195197		Benzo[c]phenanthrene [PAH, POM]	<new>	c		3	
192972	e	Benzo[e]pyrene [PAH, POM]	07/96		0.5	1 ~~3~~	
191242	e	Benzo[g,h,i]perylene [PAH, POM]	07/96		0.5	1	
205823	e	Benzo[j]fluoranthene [PAH, POM]		c	0.5	1 2 3 4 5	
207089	e	Benzo[k]fluoranthene [PAH, POM]		c	0.5	1 2 3 4 5	
218019	e	Chrysene [PAH, POM]	09/90	c	5	1 2 3 4	
191071		Coronene [PAH-related]	<new>			7	
215587		Dibenz[a,c]anthracene [PAH, POM]	<new>	c		4	
53703	e	Dibenz[a,h]anthracene [PAH, POM]		c	0.1	1 2 3 4 5	
224419		Dibenz[a,j]anthracene [PAH, POM]	<new>	c		4	
192654	e	Dibenzo[a,e]pyrene [PAH, POM]		c	0.05	1 2 ~~3~~ 4 5	
189640	e	Dibenzo[a,h]pyrene [PAH, POM]		c	0.001	1 2 3 4 5	
189559	e	Dibenzo[a,i]pyrene [PAH, POM]		c	0.001	1 2 3 4 5	
191300	e	Dibenzo[a,l]pyrene [PAH, POM]		c	0.001	1 2 3 4 5	
192518		Dibenzo[e,l]pyrene [PAH, POM]	<new>			7	
206440	e	Fluoranthene [PAH, POM]	07/96	c	0.5	1	
86737	e	Fluorene [PAH, POM]	07/96	c	0.5	1 ~~3~~	
193395	e	Indeno[1,2,3-cd]pyrene [PAH, POM]		c	0.5	1 2 3 4 5	
91576	e	~~2-Methyl naphthalene~~ 2-Methylnaphthalene [PAH, POM]	07/96	c	50	1	
91203	e	Naphthalene [PAH, POM]		c	0.1	1 2 3 4	
198550	e	Perylene [PAH, POM]	07/96	c	0.5	1 ~~3~~	
85018	e	Phenanthrene [PAH, POM]	07/96	c	0.5	1 ~~3~~	
129000	e	Pyrene [PAH, POM]	07/96	c	0.5	1 ~~3~~	
#	e	PAH-Derivatives (Polycyclic aromatic hydrocarbon derivatives) [POM] (including but not limited to thos	06/91				
7440053		Palladium	<new>			7	
		Parabens including but not limited to:	<new>				
94268		Butylparaben	<new>			7	
120478		Ethylparaben	<new>			7	
99763		Methylparaben	<new>			7	
94133		n-Propylparaben	<new>			7	

Appendix A-I: **Substances for Which Emissions Must be Quantified**

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)						Other
30525894		Paraformaldehyde	<new>				2*				7	
1910425		Paraquat	<new>								7	[19]
56382	e	Parathion	06/91	c	100	1	2	3	4			
1155	e	PBBs (Polybrominated biphenyls) [POM] including but not limited to:		c		1	2	3	4	5	7	
13654096		Decabromobiphenyl	<new>	c		1		3	4	5	7	
70362504	e	3,4,4',5-TETRACHLOROBIPHENYL (PCB 81)	11/06	c	0.01		2	3	4	5		
59080409		2,2',4,4',5,5'-Hexabromobiphenyl (see Brominated and Chlorinated Organic Compounds Used as Fl	<new>							5		
67774327		Hexabromobiphenyl mixture including Firemaster FF-1 (see Brominated and Chlorinated Organic C	<new>							5		
61288139		Octabromobiphenyl	<new>	c		1		3	4	5	7	
59536651		PBBs (mixed) including but not limited to: Firemaster® BP-6	<new>	c		1		3	4		7	
32598144	e	2,3,3',4,4'-PENTACHLOROBIPHENYL (PCB 105)	11/06	c	0.01		2	3	4	5		
74472370	e	2,3,4,4',5-PENTACHLOROBIPHENYL (PCB 114)	11/06	c	0.002		2	3	4	5		
31508006	e	2,3',4,4',5-PENTACHLOROBIPHENYL (PCB 118)	11/06	c	0.01		2	3	4	5		
65510443	e	2,3',4,4',5'-PENTACHLOROBIPHENYL (PCB 123)	11/06	c	0.01		2	3	4	5		
57465288	e	3,3',4,4',5-PENTACHLOROBIPHENYL (PCB 126)	11/06	c	0.00001		2	3	4	5		
38380084	e	2,3,3',4,4',5-HEXACHLOROBIPHENYL (PCB 156)	11/06	c	0.002		2	3	4	5		
69782907	e	2,3,3',4,4',5'-HEXACHLOROBIPHENYL (PCB 157)	11/06	c	0.002		2	3	4	5		
52663726	e	2,3',4,4',5,5'-HEXACHLOROBIPHENYL (PCB 167)	11/06	c	0.1		2	3	4	5		
32774166	e	3,3',4,4',5,5'-HEXACHLOROBIPHENYL (PCB 169)	11/06	c	0.0001		2	3	4	5		
39635319	e	2,3,3',4,4',5,5'-HEPTACHLOROBIPHENYL (PCB 189)	11/06	c	0.01		2	3	4	5		
98566		PCBTF (see 1-Chloro-4-(trifluoromethyl)benzene)	<new>	c				3			6	
40487421		Pendimethalin	<new>								7	[19]
60348609		Pentabromodiphenyl ether mixture [DE-71 (technical grade)]	<new>	c					4			
608719		Pentabromophenol {PBP} (see Brominated and Chlorinated Organic Compounds used as Flame Reta	<new>								7	
--	e	Polychlorinated dibenzo-p-dioxins {PCDDs or Dioxins} [POM] including but not limited to:		c		1	2					
133493		Pentachlorobenzenethiol	<new>								7	
76017		Pentachloroethane	<new>								7	
82688	e	Pentachloronitrobenzene {Quintobenzene} (see Chloronitrobenzenes)	06/91		100	1	2					
600146		2,3-Pentanedione	<new>								7	
1341453		2,3-Pentanedione (alt./deprecated CAS, see CAS 600146)	<new>								7	
110667		1-Pentanethiol	<new>								7	
79210	e	Peracetic acid	06/91		100	1						
127184	e	Perchloroethylene {Tetrachloroethene}		c	5	1	2	3	4	5	6	
594423		Perchloromethyl mercaptan	<new>				2*				7	[19]
		Perfluoro and Polyfluoro compounds including but not limited to:	<new>									
958445448		Ammonium 4,8-dioxa-3H-perfluorononanoate {ADONA}	<new>								7	
40143779		Bis(perfluorohexyl)phosphinic acid {Bis(tridecafluorohexyl)phosphinic acid}	<new>								7	
2991506		N-Ethyl-N-((heptadecafluorooctyl)sulfonyl)glycine {NEtFOSAA}	<new>								7	
2991506		2-(N-Ethyl-perfluorooctanesulfonamido)acetic acid	<new>								7	
		6:2 Fluorotelomer acetate	<new>								7	
		8:2 Fluorotelomer acetate	<new>								7	
		10:2 Fluorotelomer acetate	<new>								7	
17527296		6:2 Fluorotelomer acrylate	<new>								7	
27905459		8:2 Fluorotelomer acrylate	<new>								7	
17741605		10:2 Fluorotelomer acrylate	<new>								7	
647427		6:2 Fluorotelomer alcohol {FtOH 6:2}	<new>								7	
678397		8:2 Fluorotelomer alcohol {FtOH 8:2}	<new>								7	
914637493		5:3 Fluorotelomer carboxylic acid {5:3 acid}	<new>								7	
53826123		6:2 Fluorotelomer carboxylic acid	<new>								7	
812704		7:3 Fluorotelomer carboxylic acid	<new>								7	
27854315		8:2 Fluorotelomer carboxylic acid	<new>								7	
53826134		10:2 Fluorotelomer carboxylic acid	<new>								7	
57677959		6:2 Fluorotelomer phosphate diester {6:2 diPAP}	<new>								7	
943913153		6:2/8:2 Fluorotelomer phosphate diester {6:2/8:2 diPAP}	<new>								7	
678411		8:2 Fluorotelomer phosphate diester {8:2 diPAP}	<new>								7	
57678010		6:2 Fluorotelomer phosphate monester {6:2 monoPAP}	<new>								7	
57678032		8:2 Fluorotelomer phosphate monoester {8:2 monoPAP}	<new>								7	
27619972		6:2 Fluorotelomer sulfonate {FtS 6:2}	<new>								7	
		8:2 Fluorotelomer sulfonate {FtS 8:2}	<new>								7	
757124724		4:2 Fluorotelomer sulfonic acid	<new>								7	
27619972		6:2 Fluorotelomer sulfonic acid	<new>								7	
39108344		8:2 Fluorotelomer sulfonic acid	<new>								7	

Appendix A-I: Substances for Which Emissions Must be Quantified

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)						Other
70887886		6:2 Fluorotelomer unsaturated carboxylic acid	<new>								7	
70887842		8:2 Fluorotelomer unsaturated carboxylic acid	<new>								7	
70887944		10:2 Fluorotelomer unsaturated carboxylic acid	<new>								7	
2355319		N-(Heptadecafluorooctylsulfonyl)-N-methylglycine {NMeFOSAA}	<new>								7	
13252136		Hexafluoropropylene oxide dimer acid {HFPO} and its ammonium salt {GenX Chemicals}	<new>									
		N-Methyl-perfluorooctane sulfonamido acetic acid	<new>								7	
		Perfluorobutanesulfonate {PFBS}	<new>								7	
375735		Perfluorobutane sulfonic acid {PFBS}	<new>								7	
375224		Perfluorobutanoic acid	<new>								7	
375224		Perfluorobutyric acid {PFBA}	<new>								7	
335773		Perfluorodecanesulfonate {PFDS}	<new>								7	
333773		Perfluorodecane sulfonic acid	<new>								7	
335762		Perfluorodecanoic acid {PFDA}	<new>								7	
52299260		Perfluorodecylphosphonic acid {C10-PFPA}	<new>								7	
307551		Perfluorododecanoic acid {PFDoA}	<new>								7	
		Perfluoroethylcyclohexane sulfonic acid	<new>								7	
60270555		Perfluoroheptanesulfonate {PFHpS}	<new>								7	
375928		Perfluoroheptane sulfonic acid	<new>								7	
375859		Perfluoroheptanoic acid {PFHpA}	<new>								7	
67905195		Perfluorohexadecanoic acid	<new>								7	
355464		Perfluorohexanesulfonate {PFHxS}	<new>								7	
307244		Perfluorohexanoic acid {PFHxA}	<new>								7	
610800345		Perfluorohexylperfluorooctylphosphinic acid {6:8 PFPiA}	<new>								7	
		Perfluorohexylphosphonic acid	<new>								7	
		Perfluoromethylheptane sulfonic acid	<new>								7	
62037803		Perfluoro(2-methyl-3-oxahexanoic) acid {GenX}, and GenX Chemicals	<new>								7	
474511074		Perfluorononanesulfonate {PFNS}	<new>								7	
474511074		Perfluorononane sulfonic acid	<new>								7	
375951		Perfluorononanoic acid {PFNA}	<new>								7	
16517116		Perfluorooctadecanoic acid	<new>								7	
307357		Perfluorooctane sulfonyl fluoride	<new>								7	
754916		Perfluorooctane sulfonamide {PFOSA}	<new>								7	
1763231		Perfluorooctanesulfonate {PFOS}	<new>						4		7	
1763231		Perfluorooctane sulfonic acid	<new>						4		7	
335671		Perfluorooctanoic acid {PFOA}	<new>	c				3	4			
2795393	e	Perfluorooctanoic acid {PFOA} and its salts, esters, and sulfonates	11/06	c	10			3	4		7	
40143780		Perfluorooctylphosphonic acid {PFOPA}	<new>								7	
2706914		Perfluoropentane sulfonic acid	<new>								7	
2706903		Perfluoropentanoic acid {PFPeA}	<new>								7	
2706914		Perfluoropentansulfonate {PFPeS}	<new>								7	
376067		Perfluorotetradecanoic acid	<new>								7	
72629948		Perfluorotridecanoic acid	<new>								7	
2058948		Perfluoroundecanoic acid {PFUnA}	<new>								7	
1086	e	Dioxins, total, w/o individ. isomers reported {PCDDs} [POM]		c	0.000001	1	2					
1085	e	Dioxins, total, with individ. isomers also reported {PCDDs} [POM]		c	0.000001	1	2					
1746016	e	2,3,7,8-Tetrachlorodibenzo-p-dioxin {TCDD} [POM]		c	0.000001	1	2	3	4	5		
30381987		Sodium bis-[2-(N-ethylperfluorooctane-1- sulfonamido)ethyl] phosphate	<new>								7	
		Sodium 2-(N-ethylperfluorooctane-1- sulfonamido)ethyl phosphate	<new>								7	
13252136		2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid	<new>								7	
29311679		1,1,2,2-Tetrafluoro-2-({1,1,1,2,3,3-hexafluoro-3-[(trifluorovinyl)oxy]-2-propanyl}oxy)ethane sulfonic a	<new>								7	
52645531		Permethrin	<new>								7	[19]
156434		p-Phenetidine	<new>				2*				7	
108952	e	Phenol			200	1	2	~~3~~				
108452		meta-Phenylenediamine	<new>								7	
95545		o-Phenylenediamine and its salts	<new>	c					4			[19]
615281		o-Phenylenediamine dihydrochloride	<new>	c					4			[19]
106503	e	p-Phenylenediamine	06/91		100	1	2					
8004135		Phenyl ether-biphenyl mixture (vapor)	<new>								7	
100630		Phenylhydrazine and its salts	<new>	c					4			
59881		Phenylhydrazine hydrochloride	<new>						4			
90437	e	2-Phenylphenol [POM]	06/91		100	1	2					
298022		Phorate	<new>								7	[19]

Appendix A-I: Substances for Which Emissions Must be Quantified

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)						Other
75445	e	Phosgene			2	1	2					
732116		Phosmet	<new>								7	[19]
--		Phosphine generating compounds	<new>								7	[19]
20859738		Aluminum Phosphide	<new>								7	[19]
2168685		Bis(1-aziridinyl)morpholinophosphine sulfide	<new>								7	[19]
22398807		Indium phosphide	<new>	c				3	4			[19]
12057748		Magnesium Phosphide	<new>								7	[19]
638211		Phenylphosphine	<new>						4			[19]
57396		Tris(2-methyl-1-aziridinyl)phosphine oxide	<new>								7	[19]
1314847												
51810709		Zinc Phosphide	<new>								7	[19]
12037795												
7723140	e	Phosphorus			0.1	1	2					
--	e	Phosphorus compounds:	09/89				2					
7803512	e	Phosphine			0.01	1	2				7	
7664382	e	Phosphoric acid	09/89		50	1	2					
10025873	e	Phosphorus oxychloride	09/89		0.1		2					
10026138	e	Phosphorus pentachloride	09/89		0.1		2					
1314563	e	Phosphorus pentoxide	09/89		0.1		2					
7719122	e	Phosphorus trichloride	09/89		0.1		2					
126738	e	Tributyl phosphate	09/89		100		2					
78400	e	Triethyl phosphine	09/89		100		2					
512561	e	Trimethyl phosphate	09/89	c	100		2		4			
78308	e	Triorthocresyl phosphate [POM]	09/89		0.5	1	2					
115866	e	Triphenyl phosphate [POM]	09/89		100	1	2					
101020	e	Triphenyl phosphite [POM]	09/89		100	1	2					
--		Phthalates, ortho-Phthalates including:	<new>									
85687	e	Butyl benzyl phthalate {BBP} {BzBP}	06/91		100	1		~~3~~	4			
84742	e	Dibutyl phthalate {Di-n-butyl phthalate} {DBP} {DnBP}	06/91		100	1	2		4			
84617		Dicyclohexyl phthalate {DCHP}	<new>								7	
117817	e	Di(2-ethylhexyl) phthalate {DEHP}		c	20	1	2	3	4	5		
84662	e	Diethyl phthalate	06/91								7	
84753		Di-n-hexyl phthalate {DnHP}	<new>						4			
84695		Di-isobutyl phthalate {DIBP}	<new>								7	
26761400		Di-isodecyl phthalate	<new>						4	5		
68515491		Di-isodecyl phthalate, C9-11 branched esters, C10 rich	<new>						4	5		
89167		Di-isodecyl phthalate mixture {Bis(8-methylnonyl) phthalate}	<new>						4	5		
119394455		Di-isodecyl phthalate mixture {1,2-Benzenedicarboxylic acid, 4,4'-carbonylbis-, 1,1',2,2'-tetraisodec	<new>						4	5		
28553120		Di-isononyl phthalate {DINP}	<new>	c					4			
68515480		Di-isononyl phthalate {DINP}, C8-10 branched esters, C9 rich	<new>	c					4			
131113	e	Dimethyl phthalate {DMP}	06/91		50	1	2					
131180		Di-n-pentyl phthalate	<new>								7	
88993		Phthalic acid	<new>				2*					
85449	e	Phthalic anhydride			0.01	1	2					
85416		Phthalimide	<new>				2*				7	
91156		Phthalonitrile	<new>				2*				7	
108996		beta-Picoline	<new>				2*				7	
51036		Piperonyl butoxide	<new>								7	
7440064		Platinum	<new>								7	
2222	e	Polybrominated diphenyl ethers {PBDEs}, including but not limited to:	11/06		1						7	
1163195	e	Decabromodiphenyl oxide {BDE 209} [POM]	06/91		1	1	2	~~3~~				
40321764	e	1,2,3,7,8-Pentachlorodibenzo-p-dioxin [POM]		c	0.000001	1	2					
39227286	e	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin [POM]		c	0.000001	1	2		4			
57653857	e	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin [POM]		c	0.000001	1	2					
19408743	e	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin [POM]		c	0.000001	1	2					
35822469	e	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin [POM]		c	0.000001	1	2					
3268879	e	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin [POM]	07/96	c	0.000001	1	2					
41903575	e	Total Tetrachlorodibenzo-p-dioxin [POM]	07/96	c	0.000001	1	2					
36088229	e	Total Pentachlorodibenzo-p-dioxin [POM]	07/96	c	0.000001	1	2					
34465468	e	Total Hexachlorodibenzo-p-dioxin [POM]	07/96	c	0.000001	1	2					
37871004	e	Total Heptachlorodibenzo-p-dioxin [POM]	07/96	c	0.000001	1	2					
--	e	Polychlorinated dibenzofurans {PCDFs or Dibenzofurans} [POM] including but not limited to:		c		1	2					

Appendix A-I: Substances for Which Emissions Must be Quantified

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)							Other
1080	e	Dibenzofurans (Polychlorinated dibenzofurans) {PCDFs} [POM]		c	0.000001	1	2						
51207319	e	2,3,7,8-Tetrachlorodibenzofuran [POM]		c	0.000001	1	2						
57117416	e	1,2,3,7,8-Pentachlorodibenzofuran [POM]		c	0.000001	1	2						
57117314	e	2,3,4,7,8-Pentachlorodibenzofuran [POM]		c	0.000001	1	2						
70648269	e	1,2,3,4,7,8-Hexachlorodibenzofuran [POM]		c	0.000001	1	2						
57117449	e	1,2,3,6,7,8-Hexachlorodibenzofuran [POM]		c	0.000001	1	2						
72918219	e	1,2,3,7,8,9-Hexachlorodibenzofuran [POM]		c	0.000001	1	2						
60851345	e	2,3,4,6,7,8-Hexachlorodibenzofuran [POM]		c	0.000001	1	2						
67562394	e	1,2,3,4,6,7,8-Heptachlorodibenzofuran [POM]		c	0.000001	1	2						
55673897	e	1,2,3,4,7,8,9-Heptachlorodibenzofuran [POM]		c	0.000001	1	2						
39001020	e	1,2,3,4,6,7,8,9-Octachlorodibenzofuran [POM]	07/96	c	0.000001	1	2						
55722275	e	Total Tetrachlorodibenzofuran [POM]	07/96	c	0.000001	1	2						
30402154	e	Total Pentachlorodibenzofuran [POM]	07/96	c	0.000001	1	2						
55684941	e	Total Hexachlorodibenzofuran [POM]	07/96	c	0.000001	1	2						
38998753	e	Total Heptachlorodibenzofuran [POM]	07/96	c	0.000001	1	2						
57749	e	Chlordane	09/89	c	10	1	2	3	4				
76448	e	Heptachlor	09/89	c	100	1	2	3	4				
118741	e	Hexachlorobenzene		c	0.1	1	2	3	4	5			
608935		Pentachlorobenzene	<new>									7	
61788338		Polychlorinated terphenyls {PCTs}	<new>									7	
#	e	POM (Polycyclic organic matter) (including but not limited to those substances listed in Appendix A wi	09/89			1	2						[15]
61790441		Potash soap	<new>									7	[19]
128030		Potassium dimethyldithiocarbamate	<new>						4				
13492267		Potassium phosphite	<new>									7	[19]
32809168		Procymidone	<new>	c					4				[19]
107039		1-Propanethiol	<new>									7	
1120714	e	1,3-Propane sultone		c	0.05	1	2	3	4	5			
709988		Propanil	<new>				2*					7	[19]
2312358		Propargite	<new>	c					4				
57578	e	beta-Propiolactone		c	10	1	2	3	4	5			
123386	e	Propionaldehyde	06/91		200	1	2						
107120		Propionitrile	<new>									7	
114261	e	Propoxur {Baygon}	06/91	c	100	1	2		4				
71238		n-Propyl alcohol	<new>									7	
106945		n-Propyl Bromide {1-Bromopropane}	<new>	c				3	4	5	6		
627123		n-Propyl carbamate	<new>									7	[19]
115071	e	Propylene			200	1	2	~~3~~					
75569	e	Propylene oxide		c	10	1	2	3	4	5			
-	e	1,2-Propyleneimine (see 2-Methylaziridine)											
23950585		Propyzamide	<new>				2*					7	[19]
123312890		Pymetrozine	<new>	c					4				[19]
110861	e	Pyridine	06/91	c	100			3	4			7	
91225	e	Quinoline	06/91	c	100	1	2		4				
106514	e	Quinone	06/91		100	1	2						
1165	e	Radionuclides including but not limited to:		c	100	1	2		4				[16]
~~24267569~~ 10043660	e	Iodine-131	09/89	c	100	1	2		4				
1166	e	Radon and its decay products	09/89	c	100	1			4				
50555	e	Reserpine [POM]		c	100	1	2	~~3~~	4	5			
#	e	Residual (heavy) fuel oils	06/91	c									
10453868		Resmethrin	<new>	c					4				[19]
7440166		Rhodium	<new>									7	
36791045	e	Ribavirin	09/90						4		6		
7440188		Ruthenium	<new>									7	
874967676		Sedaxane	<new>	c					4				[19]
7782492	e	Selenium			0.5		2	~~3~~					
*	e	Selenium compounds including but not limited to:			0.5	1	2	~~3~~					[7]
7783075	e	Hydrogen selenide	11/06		0.1							7	
7446346	e	Selenium sulfide	09/90	c	0.1		2		4	5			[7]
68308349	e	Shale oils	<new>	c				3	4				
1175	e	Silica, crystalline (respirable), in the form of quartz or cristobalite		c	0.1	1		3	4				
14464461		Silica, crystalline (respirable), in the form of cristobalite	<new>	c	0.1	1		3	4				
14808607		Silica, crystalline (respirable), in the form of quartz	<new>	c	0.1	1		3	4				

Appendix A-I: Substances for Which Emissions Must be Quantified

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)							Other
409212		Silicon carbide whiskers	<new>	c				3					
308076746		Silicon carbide, fibrous	<new>	c				3					
7440224	e	Silver	06/91		2							7	
*	e	Silver compounds	06/91		2	1							[7]
122349		Simazine	<new>						4				[19]
7758192		Sodium chlorite	<new>									7	
128041		Sodium dimethyldithiocarbamate	<new>						4				
1310732	e	Sodium hydroxide			2	1	2						
124414		Sodium methoxide	<new>				2*					7	
7345699		Sodium tetrathiocarbamate	<new>									7	[19]
--		Special-purpose fibres such as E-glass and '475' glass fibres	<new>	c				3					
148477718		Spirodiclofen	<new>	c					4				[19]
78488		S,S,S-Tributyl phosphorotrithioate {Tribufos}	<new>	c					4				[19]
7803523		Stibine {Antimony hydride}	<new>									7	
9003547		Styrene-acrylonitrile copolymers (must report the individual monomer components)	<new>									7	
9003558		Styrene-butadiene copolymers (must report the individual monomer components)	<new>									7	
100425	e	Styrene		c	100	1	2	3	4	6			
98839		Styrene: Methylstyrene {alpha-Methylstyrene}	<new>	c				3	4				
96093	e	Styrene oxide		c	100	1	2	3	4				
108305		Succinic anhydride	<new>									7	
57681		Sulfamethazine	<new>									7	
41481667		4,4'-Sulfonylbis[2-(2-propen-1-yl)phenol] {TGSA}	<new>									7	
7704349		Sulfur	<new>									7	[19]
*	e	Sulfuric acid and oleum											
8014957	e	Oleum	11/06		100							7	
7446719	e	Sulfur trioxide	11/06		100							7	
7664939	e	Sulfuric acid	06/91		2	1							
2699798		Sulfuryl fluoride	<new>									7	[19]
54965241	e	Tamoxifen citrate [POM]	09/90	c		1	2	3	4	5			
100210	e	Terephthalic acid	06/91		100	1							
2593159		Terrazole	<new>	c					4				[19]
79947		Tetrabromobisphenol A {TBBPA} (see Brominated and Chlorinated Organic Compounds Used as Flai	<new>	c				3	4				
632791		Tetrabromophthalic anhydride	<new>				2*					7	
14047097		3,3',4,4'-Tetrachloroazobenzene	<new>	c				3*					
634662		1,2,3,4-Tetrachlorobenzene (see Chlorobenzenes)	<new>									7	
95943		1,2,4,5-Tetrachlorobenzene (see Chlorobenzenes)	<new>									7	
12408105		Tetrachlorobenzene (mixed isomers) (see Chlorobenzenes)	<new>									7	
15721025		2,2',5,5'-Tetrachlorobenzidine	<new>									7	
630206		1,1,1,2-Tetrachloroethane	<new>	c				3	4				
79345	e	1,1,2,2-Tetrachloroethane	09/90	c	1	1	2	3	4				
-	e	Tetrachlorophenols (see Chlorophenols)											
117088		Tetrachlorophthalic-anhydride	<new>				2*					7	
112607		Tetraethylene glycol	<new>				2*					7	
78002		Tetraethyllead (see Lead (other than inorganic): Tetraethyllead)	<new>				2*					7	
116143		Tetrafluoroethylene	<new>	c				3	4	5			
100505		Tetrahydrobenzaldehyde	<new>				2*					7	
		Δ9-Tetrahydrocannabinol {Δ9-THC}	<new>						4				
109999		Tetrahydrofuran	<new>	c			2*	3				7	
119642		1,2,3,4-Tetrahydronaphthalene {Tetralin}	<new>				2*					7	
85438		Tetrahydrophthalic anhydride	<new>				2*					7	
		Tetrakis(hydroxymethyl)phosphonium salts including but not limited to:	<new>									7	
124641		Tetrakis(hydroxymethyl)phosphonium chloride	<new>									7	
55566308		Tetrakis(hydroxymethyl)phosphonium sulfate	<new>									7	
110601		Tetramethylene-diamine	<new>				2*					7	
110189		Tetramethylethylenediamine	<new>				2*					7	
7440280	e	Thallium	06/91		100							7	
*	e	Thallium compounds	06/91	c	100							7	[7]
148798		Thiabendazole {TBZ}	<new>									7	[19]
62555	e	Thioacetamide		c	0.01			3	4	5			
23564058		Thiophanate methyl	<new>						4				[19]
62566	e	Thiourea		c	0.1	1		~~3~~	4	5			
137268		Thiram	<new>									7	[19]

Appendix A-I: **Substances for Which Emissions Must be Quantified**

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)							Other
7440291		Thorium-232 and its decay products	<new>	c				3					
13463677		Titanium dioxide	<new>	c				3	4		6		
7550450	e	Titanium tetrachloride	06/91		100	1	2						
108883	e	Toluene			200	1	2	~~3~~	4		6		
-	e	2,4-Toluenediamine (see 2,4-Diaminotoluene)											
26471625	e	Toluene diisocyanates including but not limited to:	06/91	c	0.1	1		3					
584849	e	Toluene-2,4-diisocyanate		c	0.1	1	2	3		5			
91087	e	Toluene-2,6-diisocyanate		c	0.1	1	2	3		5			
104154		Toluene sulfonic acids	<new>				2*					7	
95534	e	o-Toluidine		c	10	1	2	3	4	5			
8001352	e	Toxaphene {Polychlorinated camphenes}		c	100	1	2	3	4	5			
43121433		Triadimefon	<new>						4				[19]
118796		2,4,6-Tribromophenol (see Brominated and Chlorinated Organic Compounds used as Flame Retarda	<new>									7	
2155706		Tributyltin methacrylate	<new>						4				
78488		Tribufos (see S,S,S-Tributyl phosphorotrithioate)	<new>	c					4				[19]
76039		Trichloroacetic acid	<new>	c				3	4				
634935		2,4,6-Trichloroaniline	<new>				2*					7	
87616		1,2,3 Trichlorobenzene (see Chlorobenzenes)	<new>				2*					7	
-	e	1,1,1-Trichloroethane (see Methyl chloroform)											
79005	e	1,1,2-Trichloroethane {Vinyl trichloride}	06/91	c	1	1	2	~~3~~	4				
79016	e	Trichloroethylene {TCE}		c	20	1	2	3	4				
-	e	2,4,6-Trichlorophenol (see Chlorophenols)											
136323		2,4,5-Trichlorophenol sodium salt (see Chlorophenols)	<new>									7	[19]
96184	e	1,2,3-Trichloropropane	07/96	c	200			3	4		6*	7	
101202		Triclocarban	<new>									7	
3380345		Triclosan (see Chlorophenols)	<new>									7	
38260014		Trientine hydrochloride	<new>						4				
121448	e	Triethylamine	06/91		20	1	2						
112243		Triethylenetetramine	<new>								6		
14151721		Trifloxystrobin	<new>									7	
1582098	e	Trifluralin	06/91		100	1	2	~~3~~					
75503		Trimethylamine	<new>				2*					7	
88051		2,4,6-Trimethylaniline	<new>									7	
137177		2,4,5-Trimethylaniline and its strong acid salts	<new>	c					4				
25551137	e	Trimethylbenzenes including but not limited to:	11/06		100	1							
526738		1,2,3-Trimethylbenzene	<new>									7	
95636	e	1,2,4-Trimethylbenzene	06/91		5	1							
108678		1,3,5-Trimethylbenzene	<new>								6		
15625895		Trimethylolpropane triacrylate, technical grade	<new>	c				3*					
540841	e	2,2,4-Trimethylpentane	06/91		100	1	2						
		TRIM VX	<new>	c					4				
118967		2,4,6-Trinitrotoluene (see Nitrotoluenes)	<new>	c					4				
545551		Tris(1-aziridinyl)phosphine oxide	<new>									7	
115968		Tris(2-chloroethyl) phosphate {TCEP} (see also Brominated and Chlorinated Organic Compounds use	<new>	c					4				
38571732		1,2,3-Tris(chloromethoxy)propane	<new>									7	
13674878		Tris(1,3-dichloro-2-propyl) phosphate {TCDP} {TDCPP} (see Brominated and Chlorinated Organic C	<new>	c					4				
9011056		Urea-formaldehyde {UF}	<new>								6		
51796	e	Urethane {Ethyl carbamate}		c	0.1	1	2	3	4	5			
7440622	e	Vanadium (fume or dust)	06/91		10							7	[17]
1314621	e	Vanadium pentoxide	11/06	c	10		2	3	4				
50471448		Vinclozolin	<new>	c					4				[19]
108054	e	Vinyl acetate	06/91	c	200	1	2	3					
593602	e	Vinyl bromide		c	20	1	2	3	4				
75014	e	Vinyl chloride		c	0.5	1	2	3	4	5			
9003229		Vinyl chloride-vinyl acetate copolymers (must report the individual monomer components)	<new>									7	
100403	e	4-Vinylcyclohexene	07/96	c	5			3	4				
75025	e	Vinyl fluoride	07/96	c	200			3	4				
75354	e	Vinylidene chloride		c	20	1	2	3	4				
9011067		Vinylidene chloride-vinyl chloride copolymers (must report the individual monomer components)	<new>									7	
106876	e	Vinyl cyclohexene dioxide {4-Vinyl-1-cyclohexene diepoxide}	09/90	c					4			7	3
88120		N-Vinyl-2-pyrrolidone	<new>									7	
25013154		Vinyl toluene	<new>				2*					7	

Appendix A-I: Substances for Which Emissions Must be Quantified

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Applicable Degree of Accuracy	Source List(s)				Other
13983170		Wollastonite	<new>						7	
1206	e	Wood preservatives (containing arsenic and chromate)	09/89		100			6		
1330207	e	Xylenes (mixed) including:			200	1	2	6		
108383	e	m-Xylene	06/91		200	1	2			
95476	e	o-Xylene	06/91		200	1	2			
106423	e	p-Xylene	06/91		200	1	2			
1300738		Xylidine	<new>				2*		7	
95681		2,4-Xylidine	<new>						7	
95783		2,5-Xylidine	<new>						7	
315184		Zectran {Mexacarbate}	<new>						7	[19]
7440666	e	Zinc			2		2			
*	e	Zinc compounds including but not limited to:	09/89		2	1	2			[7]
1314132	e	Zinc oxide			2		2			[7]
137304		Ziram	<new>						7	[19]
[30]		And the following functional groups:								[30]
[30]		ISOCYANATE RELATED: Any chemical containing the Isocyanate functional group	<new>							[30]
[30]		Any chemical containing a single Isocyanate functional group	<new>							[30]
[30]		Any chemical containing two or more Isocyanate functional groups	<new>							[30]
[30]		PAH RELATED: Derivatives and substituted versions of polycyclic aromatic compounds that contain a	<new>							[30]
[30]		PFAS RELATED: Substances containing any of the following functional groups of poly- and per-fluori	<new>							[30]
[30]		Perfluoroalkyl carbonyl, carboxylic acid, and alcohol compounds	<new>							[30]
[30]		Perfluoroalkyl sulfonyl, sulfonic acid, sulfonate and sulfonamide compounds	<new>							[30]
[30]		Perfluoroalkyl phosphate compounds	<new>							[30]
[30]		Fluorotelomer-related compounds	<new>							[30]
[30]		Per- and polyfluoroalkyl ether-based compounds	<new>							[30]
[30]		Other PFAA precursors and related compounds -perfluoroalkyl ones	<new>							[30]
[30]		Other PFAA precursors or related compounds -semifluorinated	<new>							[30]
[30]		Fluoropolymers	<new>							[30]

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

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Source List(s)	Other Note(s)
~~1000~~ 1402682	e	Aflatoxins		c	3 4 5	[18]
26148685	e	A-alpha-C {2-Amino-9H-pyrido[2,3-b]indole}	09/89	c	3 4	
34256821	e	Acetochlor	09/89	c	4	
62476599	e	Acifluorfen [POM]	09/90	c	1 2 4	
3688537	e	AF-2		c	3 4	
15972608	e	Alachlor	09/89	c	4	7
309002	e	Aldrin	09/89	c	3 4	
107186	e	Allyl alcohol	06/91			
60093	e	p-Aminoazobenzene {4-Aminoazobenzene} [POM]		c	1 2 3 4	
97563	e	o-Aminoazotoluene [POM]		c	1 2 3 4 5	
6109973	e	3-Amino-9-ethylcarbazole hydrochloride [POM]	09/89	c	1 2 4 5	7
125848	e	Aminoglutethimide	09/90		4	7
82280	e	1-Amino-2-methylanthraquinone [PAH-Derivative, POM]		c	1 2 3 4 5	
68006837	e	2-Amino-3-methyl-9H-pyrido(2,3-b) indole {MeA-alpha-C}	09/89	c	3 4	
712685	e	2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole		c	3 4	
134292	e	o-Anisidine hydrochloride		c	4 5	7
104949	e	p-Anisidine	06/91		3	
140578	e	Aramite		c	3 4	
492808	e	Auramine [POM]		c	1 2 3 4 5	
446866	e	Azathioprine		c	1 2 3 4 5	
103333	e	Azobenzene [POM]	09/90	c	1 2 3 4	
98873	e	Benzal chloride	06/91		3	
55210	e	Benzamide	06/91			7
1694093	e	Benzyl violet 4B [POM]		c	1 2 3 4	
1025	e	Betel quid with tobacco		c	3 4	
494031	e	N-N-Bis(2-chloroethyl)-2-naphthylamine {Chlornaphazine} [PAH-Derivative, POM]		c	1 2 3 4 5	
108601	e	Bis(2-chloro-1-methylethyl) ether	06/91		3 4	
1030	e	Bitumens, extracts of steam-refined and air-refined bitumens		c	3 4	
1035	e	Bleomycins		c	3	
75274	e	Bromodichloromethane	09/90	c	3 4	
1689845	e	Bromoxynil	06/91		4	
25013165	e	Butylated hydroxyanisole {BHA}		c	3 4	
128370		Butylated hydroxytoluene {BHT}	<new>		3	
123728	e	Butyraldehyde	06/91			
3068880	e	beta-Butyrolactone		c	3 4	
630080	e	Carbon monoxide	09/89		4	
143500	e	Chlordecone {Kepone}		c	3 4	
6164983	e	Chlordimeform	09/89	c	3 4	7
~~115286~~	~~e~~	~~Chlorendic acid~~	~~09/89~~	~~c~~	~~3~~ 4 ~~5~~	
124481	e	Chlorodibromomethane	09/90	c	3 4	7
25497294		Chlorodifluoroethane	<new>		2*	
593704		Chlorofluoromethane	<new>		3	
563473	e	3-Chloro-2-methylpropene	09/89	c	3 4 5	7
1065	e	Chlorophenoxy herbicides		c	3	
1897456	e	Chlorothalonil	09/89	c	3 4	
1059	e	p-Chloro-o-toluidine (strong acid salts)	06/91	c	3 4	7
75887		2-Chloro-1,1,1-trifluoroethane	<new>		3	
4680788	e	C. I. Acid Green 3 [POM] Note: "C.I." means "color index"	06/91		1 2	
6459945		C.I. Acid Red 114	<new>	c	3	
569642	e	C. I. Basic Green 4 [POM]	06/91		1 2	
989388	e	C. I. Basic Red 1 [POM]	06/91		1 2	
569619	e	C. I. Basic Red 9 monohydrochloride [POM]	09/89	c	1 2 4 5	
2429745		C.I. Direct Blue 15	<new>	c	3	
2832408	e	C. I. Disperse Yellow 3 [POM]	06/91		1 2 4	
87296	e	Cinnamyl anthranilate [POM]	09/89	c	1 2 3 4 5	
6358538	e	Citrus Red No. 2 [POM]		c	1 2 3 4	

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

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Source List(s)	Other Note(s)
21725462	e	Cyanazine	09/90		4	
14901087	e	Cycasin		c	3 4	
108918		Cyclohexylamine	<new>		2*	7
13121705	e	Cyhexatin	09/89		4 5	
3468631	e	D and C Orange No. 17 [PAH-Derivative, POM]	09/90	c	1 2 4	
81889	e	D and C Red No. 19 [POM]	09/90	c	1 2 4	
2092560	e	D and C Red No. 8 [PAH-Derivative, POM]	06/91	c	1 2 4	
5160021	e	D and C Red No. 9 [PAH-Derivative, POM]	09/90	c	1 2 4	7
1596845	e	Daminozide	09/90	c	4	
50293	e	DDT {1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane} [POM]		c	1 2 3 4 5	
613354	e	N,N'-Diacetylbenzidine [POM]		c	1 2 3 4	
2303164	e	Diallate	06/91		3	
39156417	e	2,4-Diaminoanisole sulfate		c	4 5	
101804	e	4,4'-Diaminodiphenyl ether [POM]		c	1 2 3 4 5	7
764410	e	1,4-Dichloro-2-butene	09/90	c	4	7
28434868	e	3,3'-Dichloro-4,4'-diaminodiphenyl ether [POM]	09/89	c	1 2 3 4	
72548	e	Dichlorodiphenyldichloroethane {DDD} [POM]	09/89	c	1 2 4	
540590	e	1,2-Dichloroethylene	06/91			
78886	e	2,3-Dichloropropene	06/91			7
60571	e	Dieldrin	09/89	c	3 4	
1464535	e	Diepoxybutane		c	3 4 5	
1615801	e	1,2-Diethylhydrazine		c	3 4	
~~84662~~	~~e~~	~~Diethyl phthalate~~	~~06/91~~			~~7~~
101906	e	Diglycidyl resorcinol ether {DGRE}		c	3 4 5	
94586	e	Dihydrosafrole		c	3 4	7
20325400	e	3,3'-Dimethoxybenzidine dihydrochloride [POM]	06/91	c	1 2 4	
55738540	e	trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)vinyl-1,3,4-oxadiazol		c	3 4	7
540738	e	1,2-Dimethylhydrazine		c	3 4	7
105679	e	2,4-Dimethylphenol {2,4-Xylenol}	06/91			7
513371	e	Dimethylvinylchloride {DMVC}	09/89	c	4 5	7
25154545	e	Dinitrobenzenes (mixtures of) including:	09/90		4	
99650	e	m-Dinitrobenzene	06/91		4	
528290	e	o-Dinitrobenzene	06/91		4	7
100254	e	p-Dinitrobenzene	06/91			
39300453	e	Dinocap	09/90		4	7
88857	e	Dinoseb	09/89		4	
117840	e	n-Dioctyl phthalate	06/91			7
2475458	e	Disperse Blue 1 [PAH-Derivative, POM]	06/91	c	1 2 3 4	
541413	e	Ethyl chloroformate	06/91			
62500	e	Ethyl methanesulfonate		c	3 4	
2164172	e	Fluometuron	06/91		3	
133073	e	Folpet	09/89	c	4	
3570750	e	2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole		c	3 4	
60568050	e	Furmecyclox	09/90	c	4	
67730114	e	Glu-P-1 {2-Amino-6-methyldipyrido[1,2-a:3',2'-d]imidazole}		c	3 4	
67730103	e	Glu-P-2 {2-Aminodipyrido[1,2-a:3',2'-d]imidazole}		c	3 4	
765344	e	Glycidaldehyde		c	3 4	
556525	e	Glycidol	09/90	c	3 4	
16568028	e	Gyromitrin {Acetaldehyde methylformylhydrazone}		c	3 4	7
2784943	e	HC Blue 1	09/89	c	3 4 5	
1024573	e	Heptachlor epoxide	09/89	c	4	
1335871	e	Hexachloronaphthalene [PAH-Derivative, POM]	06/91		1 2	7
		2,4-Hexadienal (89% trans, trans isomer; 11% cis, trans isomer)	<new>	c	4	
10034932	e	Hydrazine sulfate		c	4 5	
76180966	e	IQ {2-Amino-3-methylimidazo[4,5-f]quinoline}		c	3 4	
78842	e	Isobutyraldehyde	06/91			

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

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Source List(s)	Other Note(s)
120581	e	Isosafrole	09/90	c	3 4	
4759482	e	Isotretinoin			4	
77501634	e	Lactofen [POM]	09/89	c	1 2 4	
1131	e	Lubricant base oils and derived products, specifically vacuum distillates, acid treated oils, aromatic oils, mildly	09/89	c	3 4 5	
8018017	e	Mancozeb	09/90	c	4	7
12427382	e	Maneb	09/90	c	3 4	
59052	e	Methotrexate	09/89		3 4	
96333	e	Methyl acrylate	06/91		3	
590965	e	Methylazoxymethanol	09/90	c	4	
592621	e	Methylazoxymethanol acetate	09/89	c	3 4	7
101611	e	4,4'-Methylene bis (N,N-dimethyl) benzenamine [POM]		c	1 2 4 5	
838880	e	4,4'-Methylene bis(2-methylaniline) [POM]	09/89	c	1 2 3 4	
74953	e	Methylene bromide	06/91			
66273	e	Methyl methanesulfonate		c	3 4	
129157	e	2-Methyl-1-nitroanthraquinone (uncertain purity) [PAH-Derivative, POM]		c	1 2 3 4	
70257	e	N-Methyl-N'-nitro-N-nitrosoguanidine		c	3 4	
-	e	N-Methyl-N-nitrosourethane (see N-Nitroso-N-methylurethane)				
924425	e	N-Methyloacrylamide	09/90	c	3 4	
9006422	e	Metiram	09/90		4	
1140	e	Mineral oils (untreated and mildly treated oils; and those used in occupations such as mulespinning, metal machining, and jute		c	3 4 5	
2385855	e	Mirex		c	3 4 5	
315220	e	Monocrotaline		c	3 4	
505602	e	Mustard gas {Sulfur mustard}		c	3 4 5	
90153		Naphthol (a-)	<new>		2*	
134327	e	1-Naphthylamine [PAH-Derivative, POM]	09/90	c	1 2 3 4	
91598	e	2-Naphthylamine [PAH-Derivative, POM]		c	1 2 3 4 5	
84866		1,4-Naphthylamine sulfonic acid	<new>		2*	
54115	e	Nicotine	09/90		4	
1148	e	Nitrilotriacetic acid (salts) including but not limited to:	06/91	c	3	
18662538	e	Nitrilotriacetic acid, trisodium salt monohydrate	06/91	c	4	
99592	e	5-Nitro-o-anisidine		c	3 4 5	
1836755	e	Nitrofen (technical grade)		c	3 4 5	
51752	e	Nitrogen mustard {Mechlorethamine}	09/89	c	3 4 5	
55867	e	Nitrogen mustard hydrochloride	06/91	c	4 5	7
55630	e	Nitroglycerin	06/91			7
88755	e	2-Nitrophenol	06/91			
57835924	e	4-Nitropyrene [PAH-Derivative, POM]	09/89	c	1 2 3 4	
759739	e	N-Nitroso-N-ethylurea	09/89	c	4 5	
60153493	e	3-(N-Nitrosomethylamino)propionitrile	09/89	c	3 4	
64091914	e	4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone {NNK}		c	3 4	
615532	e	N-Nitroso-N-methylurethane		c	3 4	
4549400	e	N-Nitrosomethylvinylamine		c	3 4 5	
16543558	e	N-Nitrosonornicotine		c	3 4 5	
13256229	e	N-Nitrososarcosine		c	3 4 5	
303479	e	Ochratoxin A [POM]	09/90	c	1 2 3 4	7
2234131	e	Octachloronaphthalene [PAH-Derivative, POM]	06/91		1 2	
2646175	e	Oil Orange SS [PAH-Derivative, POM]		c	1 2 3 4	7
20816120	e	Osmium tetroxide	06/91			
794934	e	Panfuran S {Dihydroxymethylfuratrizine}		c	3 4	
122601	e	Phenyl glycidyl ether	09/90	c	3 4	
57410	e	Phenytoin [POM]		c	1 2 3 4 5	7
88891	e	Picric acid	06/91			
~~1155~~	~~e~~	~~Polybrominated biphenyls {PBBs{ [POM]~~		~~e~~	~~1 2 3 4 5~~	
53973981	e	Polygeenan	09/89	c	4	
3761533	e	Ponceau MX [PAH-Derivative, POM]		c	1 2 3 4	
3564098	e	Ponceau 3R [PAH-Derivative, POM]		c	1 2 3 4	

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

Emittent ID	e	Substance Name ([Note 2])	Add Date	Carcinogen	Source List(s)	Other Note(s)
~~36791045~~	~~e~~	~~Ribavirin~~	~~09/90~~		~~4~~	
94597	e	Safrole		c	3 4 5	
~~1180~~	~~e~~	~~Shale oils~~		~~e~~	~~3~~ 4	
132274	e	Sodium o-phenylphenate [POM]		c	1 2 3 4	
128449	e	Sodium saccharin	09/89	c	4	
1185	e	Soots		c	3 4	
10048132	e	Sterigmatocystin [POM]		c	1 2 3 4	
95067	e	Sulfallate		c	3 4 5	
5216251	e	p-alpha,alpha,alpha-Tetrachlorotoluene	09/90	c	4	7
961115	e	Tetrachlorvinphos	06/91	c	4	
509148	e	Tetranitromethane	09/90	c	3 4	
139651	e	4,4'-Thiodianiline [POM]		c	1 2 3 4	
1314201	e	Thorium dioxide		c	4 5	
1200	e	Tobacco products, smokeless		c	3 4	
1205	e	alpha-chlorinated Toluenes		c	3	
636215	e	o-Toluidine hydrochloride		c	4 5	
106490	e	p-Toluidine	09/90	c	4	7
52686	e	Trichlorfon	06/91		3	
68768	e	Tris(aziridinyl)-p-benzoquinone {Triaziquone}	09/90	c	3 4	
52244	e	Tris(1-aziridinyl) phosphine sulfide {Thiotepa}		c	3 4 5	
126727	e	Tris(2,3-dibromopropyl)phosphate	09/89	c	3 4	
62450060	e	Trp-P-1 {3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole}		c	3 4	
62450071	e	Trp-P-2 {3-Amino-1-methyl-5H-pyrido[4,3-b]indole}		c	3 4	
72571	e	Trypan blue [PAH-Derivative, POM]		c	1 2 3 4	
~~106876~~	~~e~~	~~4-Vinyl-1-cyclohexene diepoxide {Vinyl cyclohexene dioxide}~~	~~09/90~~	~~e~~	4	~~7~~
75387		Vinylidene fluoride	<new>		3	
81812	e	Warfarin [POM]			1 2 4	
87627	e	2,6-Xylidene	06/91		3 4	
12122677	e	Zineb	09/90	c	3 4	

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

Emittent ID	e	Substance Name	Add Date	Carcinogen	Source List(s)	Other Note(s)
154229182		Abiraterone acetate	<new>		4	
59665		Acetazolamide	<new>		4	
546883	e	Acetohydroxamic acid	09/90		4	
59277893		Aciclovir	<new>		3	
50760	e	Actinomycin D	09/90	c	3 4	
23214928	e	Adriamycin [PAH-Derivative, POM]		c	1 2 3 4 5	
28981977	e	Alprazolam [POM]	09/90		1 2 4	
645056		Altretamine	<new>		4	
665667		Amantadine hydrochloride	<new>		4	
39831555	e	Amikacin sulfate	09/90		4	
--		Aminoglycosides	<new>		4	
105650235		2-Amino-1-methyl-6-phenylimidazo[4,5-b]pyridine {PhIP}	<new>	c	3	
121664		2-Amino-5-nitrothiazole	<new>		3	
54626	e	Aminopterin			4	
19774824		Amiodarone hydrochloride	<new>		4	
33089611		Amitraz	<new>		4	
14028445		Amoxapine	<new>		4	
1005	e	Analgesic mixtures containing phenacetin		c	3 4 5	
1010	e	Androgenic (anabolic) steroids including but not limited to:		c	3 4	
58184	e	Methyltestosterone	09/90		4	
434071	e	Oxymetholone		c	4 5	
58220	e	Testosterone and its esters including but not limited to:	09/89		4	
315377	e	Testosterone enanthate	09/90		4	
63058		Androstenedione	<new>	c	4	
--		Angiotensin converting enzyme (ACE) inhibitors	<new>		4	
117373		Anisindione	<new>		4	
50782	e	Aspirin	06/91		4	
29122687		Atenolol	<new>		4	
34031328		Auranofin	<new>		4	
71751412		Avermectin B1	<new>		4	
320672		Azacitidine	<new>	c	3 4 5	
115026	e	Azaserine		c	3 4	
800248		Aziridyl benzoquinone	<new>		3	
5534098		Beclomethasone dipropionate	<new>		4	
76937		Benzilic acid	<new>		2	
---		Benzodiazepines	<new>		4	
579442		Benzoin	<new>		2	
5411223	e	Benzphetamine hydrochloride [POM]	09/90		1 2 4	
120514		Benzyl benzoate	<new>		2	
216974753		Bevacizumab	<new>		4	
154938	e	Bischloroethyl nitrosourea		c	3 4	
143817		Butabarbital sodium	<new>		4	
55981	e	1,4-Butanediol dimethanesulfonate {Busulfen/Myleran}		c	3 4 5	
298464		Carbamazepine	<new>		4	
41575944	e	Carboplatin	09/90		4	
474259	e	Chenodiol	09/90		4	
302170		Chloral hydrate	<new>	c	3 4	
305033	e	Chlorambucil		c	3 4 5	
56757	e	Chloramphenicol		c	3 4	
982570		Chloramphenicol sodium succinate	<new>	c	4	
1620219	e	Chlorcyclizine hydrochloride [POM]			1 2 4	
58253		Chlordiazepoxide	<new>		4	
438415		Chlordiazepoxide hydrochloride	<new>		4	
13010474	e	1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea {CCNU}		c	3 4 5	

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

Emittent ID	e	Substance Name	Add Date	Carcinogen	Source List(s)	Other Note(s)
13909096	e	1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea {Methyl CCNU}		c	3 4	
54057		Chloroquine			3	
569573		Chlorotrianisene	<new>	c	4	
59865133		Ciclosporin (see Cyclosporine)	<new>	c	3 4	
113852372		Cidofovir	<new>	c	4	
51481619		Cimetidine	<new>		3	
15663271	e	Cisplatin		c	3 4	
4291638		Cladribine	<new>		4	
81103119		Clarithromycin	<new>		4	
637070		Clofibrate	<new>	c	3 4	
50419	e	Clomiphene citrate [POM]	09/90		1 2 3 4	
57109907		Clorazepate dipotassium	<new>		4	
64868		Colchicine	<new>		4	
50180	e	Cyclophosphamide		c	3 4 5	
6055192		Cyclophosphamide (hydrated)	<new>	c	3 4	
59865133		Cyclosporine	<new>	c	3 4	
147944	e	Cytarabine	09/89		4	
21739913		Cytembena	<new>	c	4	
4342034	e	Dacarbazine		c	3 4 5	
17230885	e	Danazol	09/90		4	
80080		Dapsone			3	
20830813	e	Daunomycin [PAH-Derivative, POM]		c	1 2 3 4	
23541506	e	Daunorubicin hydrochloride [PAH-Derivative, POM]	09/90		1 2 4	
143102		1-Decanethiol	<new>			7
52918635		Deltamethrin	<new>		3	
439145		Diazepam	<new>		3 4	
364987		Diazoxide	<new>		4	
120978		Dichlorphenamide	<new>		4	
66762		Dicumarol	<new>		4	
69655056		Didanosine	<new>		3	
84173	e	Dienestrol [POM]	09/90	c	1 2 4	
22494424		Diflunisal	<new>		4	
20830755		Digoxin	<new>		3	
6190392		Dihydroergotamine mesylate	<new>		4	
33286225		Diltiazem hydrochloride	<new>		4	
97778		Disulfiram	<new>		3	
5989275		d-Limonene	<new>		3	
40762150		Doxefazepam	<new>		3	
25316409		Doxorubicin hydrochloride (Adriamycin)	<new>	c	4	
564250	e	Doxycycline	09/90		4	
94088854		Doxycycline calcium (internal use)	<new>		4	
24390145		Doxycycline hyclate (internal use)	<new>		4	
17086281		Doxycycline monohydrate (internal use)	<new>		4	
562107		Doxylamine succinate	<new>		3	
82413205		Droloxifene	<new>		3	
379793	e	Ergotamine tartrate [POM]	09/90		1 2 4	
29975164		Estazolam	<new>		3	
1095	e	Estrogens, non-steroidal including but not limited to:		c	3 5	
56531	e	Diethylstilbestrol [POM]		c	1 2 3 4 5	
1100	e	Estrogens, steroidal including but not limited to:		c	3 4 5	
1068	e	Conjugated estrogens	09/90	c	4	
50282	e	Estradiol 17 beta		c	4 5	
53167	e	Estrone		c	4 5	
57636	e	Ethinyl estradiol		c	4 5	

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

Emittent ID	e	Substance Name	Add Date	Carcinogen	Source List(s)	Other Note(s)
72333	e	Mestranol		c	3 4 5	
7280377		Estropipate	<new>	c	4	
536334		Ethionamide	<new>		3 4	
9004573		Ethylcellulose	<new>		2	
41340254		Etodolac	<new>		4	
33419420	e	Etoposide [POM]	09/90		2 3 4	
54350480	e	Etretinate			4	
121181531		Filgrastim	<new>		4	
3385033		Flunisolide	<new>		4	
51218	e	Fluorouracil	09/89		4	
76437	e	Fluoxymesterone	09/90		4	
1172185		Flurazepam hydrochloride	<new>		4	
5104494		Flurbiprofen	<new>		4	
13311847	e	Flutamide	09/90		4	
67458	e	Furazolidone	09/90	c	3 4	
54319		Furosemide (Frusemide)	<new>		3	
82410320		Ganciclovir	<new>	c	4	
107910758		Ganciclovir sodium	<new>		4	
25812300		Gemfibrozil	<new>	c	3 4	
		Goldenseal root powder	<new>	c	3 4	
65807025		Goserelin acetate	<new>		4	
126078	e	Griseofulvin		c	3 4	
23092173	e	Halazepam [POM]	09/90		1 2 4	
66852548		Halobetasol propionate	<new>		4	
52868		Haloperidol	<new>		4	
100970		Hexamethylene-tetramine.	<new>		2	
106694		1,2,6-Hexanetriol	<new>		2	
		Histrelin acetate	<new>		4	
86544		Hydralazine	<new>		3	
67485294		Hydramethylnon	<new>		4	
58935		Hydrochlorothiazide	<new>	c	3	
127071		Hydroxyurea	<new>		3 4	
57852570		Idarubicin hydrochloride	<new>		4	
3778732	e	Ifosfamide	09/90		4	
9004664	e	Iron dextran complex		c	3 4 5	
9000388		Kava extract	<new>	c	3	
501304		Kojic acid	<new>		3	
303344	e	Lasiocarpine	09/89	c	3 4	
74381536		Leuprolide acetate	<new>		4	
59927		Levodopa	<new>		4	
554132	e	Lithium carbonate	06/91		4	
919164	e	Lithium citrate	06/91		4	
846491	e	Lorazepam [POM]	09/90		1 2 4	
75330755		Lovastatin	<new>		4	
52766		Lynestrenol	<new>	c	4	
551746		Mannomustine dihydrochloride	<new>		3	
31431397		Mebendazole	<new>		4	
595335	e	Megestrol acetate	06/91		4	
148823	e	Melphalan		c	3 4 5	
9002680	e	Menotropins	09/90		4	
57534		Meprobamate	<new>		4	
6112761	e	Mercaptopurine	09/90		4	
61574		6-Mercaptopurine	<new>		3	
531760	e	Merphalan	09/89	c	3 4	

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

Emittent ID	e	Substance Name	Add Date	Carcinogen	Source List(s)	Other Note(s)
3771195	e	Methacycline hydrochloride	06/91		4	
20354261		Methazole	<new>		4	
60560	e	Methimazole	09/90		3 4	
15475566	e	Methotrexate sodium	09/90		4	
484208	e	5-Methoxypsoralen		c	3	
56042	e	Methylthiouracil		c	3 4	
443481	e	Metronidazole		c	3 4 5	
59467968	e	Midazolam hydrochloride [POM]	09/90		1 2 4	
62015398	e	Misoprostol	09/90		4	[21]
59122462	e	Misoprostol (alt. CAS, see CAS 62015398)	09/90		4	[21]
50077	e	Mitomycin C		c	3 4	
65271809		Mitoxantrone	<new>		3	
70476823	e	Mitoxantrone hydrochloride [PAH-Derivative, POM]	09/90		1 2 4	
11380347		MOPP (vincristine-prednisone-nitrogen mustard-procarbazine mixture)	<new>	c	4	
139913	e	5-(Morpholinomethyl)-3-[(5-nitrofurfurylidene)amino]-2-oxazolidinone		c	3 4	
86220420	e	Nafarelin acetate [PAH-Derivative, POM]	09/90		1 2 4	
50066	e	Nafenopin [POM]		c	1 2 3 4	
389082		Nalidixic acid	<new>	c	4	
1405103	e	Neomycin sulfate	09/90		4	
56391572	e	Netilmicin sulfate	09/90		4	
21829254		Nifedipine	<new>		4	
66085594		Nimodipine	<new>		4	
79572	e	Niridazole		c	3 4	
139946		Nithiazide	<new>		3	
602608		9-Nitroanthracene [PAH-Related]	<new>		3	7
67209	e	Nitrofurantoin	06/91	c	3 4	
59870	e	Nitrofurazone	09/90	c	4	
555840	e	1-[(5-Nitrofurfurylidene)amino]-2-imidazolidinone		c	3 4	
531828	e	N-[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide		c	3 4	
1455216		1-Nonanethiol	<new>			7
51989		Norethisterone acetate (Norethindrone acetate)	<new>		4	
68235		Norethynodrel	<new>	c	4	
6533002	e	Norgestrel	09/90		4	
604751		Oxazepam	<new>	c	3 4	
129204		Oxyphenbutazone	<new>		3	
1160	e	Oxytetracycline	06/91		4	
2058460		Oxytetracycline hydrochloride (internal use)	<new>		4	
33069624		Paclitaxel	<new>		4	
150130		para-Aminobenzoic acid	<new>		3	
115673	e	Paramethadione	09/90		4	
52675	e	Penicillamine	06/91		4	
57330	e	Pentobarbital sodium	09/90		4	
37319178 116001968		Pentosan polysulfate sodium	<new>	c	3 4	
53910251		Pentostatin	<new>		4	
380610275		Pertuzumab	<new>		4	
63989	e	Phenacemide	09/90		4	
62442	e	Phenacetin		c	3 4 5	
94780		Phenazopyridine	<new>	c	4	
~~94780~~ 136403	e	Phenazopyridine hydrochloride		c	3 4 5	
156514		Phenelzine sulfate	<new>		3	
3546109	e	Phenesterin	09/89	c	4 5	
103037		Phenicarbazide	<new>		3	
63923	e	Phenobarbital		c	3 4	

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

Emittent ID	e	Substance Name	Add Date	Carcinogen	Source List(s)	Other Note(s)
59961	e	Phenoxybenzamine [POM]	09/89	c	1 2 4	
63923	e	Phenoxybenzimide hydrochloride [POM]	09/90	c	1 2 3 4 5	
435972		Phenprocoumon	<new>		4	
50339		Phenylbutazone	<new>		3	
108736		Phloroglucinol	<new>		2	
2062784		Pimozide	<new>		4	
846504	e	Pipobroman	09/90		4	
18378897	e	Plicamycin [PAH-Derivative, POM]	09/90		1 2 4	
81131706		Pravastatin sodium	<new>		4	
2955386		Prazepam	<new>		3	
29069247		Prednimustine	<new>		3	
125020		Prednisolone sodium phosphate	<new>		4	
125337		Primidone	<new>	c	3 4	
671169		Procarbazine	<new>	c	4	
366701	e	Procarbazine hydrochloride		c	3 4 5	
57830	e	Progesterone		c	3 4 5	
2068782	e	Progestins including but not limited to:		c	3	
71589	e	Medroxyprogesterone acetate		c	3 4	
68224	e	Norethisterone		c	4 5	
51025		Pronetalol hydrochloride	<new>		3	
51525	e	Propylthiouracil		c	3 4 5	
58140		Pyrimethamine	<new>		3 4	
36735225		Quazepam	<new>		4	
108463		Resorcinol	<new>		2 3	
302794	e	all-trans-Retinoic acid	09/89		4	
1167	e	Retinol/retinyl esters	09/89	c	4	
23246960		Riddelliine	<new>	c	3 4 5	
26308281		Ripazepam	<new>		3	
122320734		Rosiglitazone	<new>		3	
81072	e	Saccharin		c	3 4 5	
309433		Secobarbital sodium	<new>		4	
114466385		Sermorelin acetate	<new>		4	
138590		Shikimic acid	<new>		3	
52017		Spironolactone	<new>	c	3 4	
10418038		Stanozolol	<new>	c	4	
3810740	e	Streptomycin sulfate	06/91		4	
18883664	e	Streptozotocin		c	3 4 5	
110-15-6		Succinic acid	<new>		2	
127695		Sulfafurazole (Sulfisoxazole)	<new>		3	
723466		Sulfamethoxazole	<new>		3	
599791		Sulfasalazine	<new>	c	3 4	
126330		Sulfolane	<new>		2	
38194502		Sulindac	<new>		4	
~~54965241~~	~~e~~	~~Tamoxifen citrate [POM]~~	~~09/90~~		~~1 2 4~~	
50351	e	Temazepam [POM]	09/90		1 2 3 4	
52232674		Teriparatide	<new>	c	4	
58208		Testosterone cypionate	<new>		4	
	e	Tetracycline hydrochloride	06/91		4	
---		Tetracyclines (internal use)	<new>		4	
50351	e	Thalidomide			4	
58559		Theophylline	<new>		3	
154427	e	Thioguanine	09/90		4	
141902		Thiouracil	<new>	c	3 4	
49842071	e	Tobramycin sulfate	09/90		4	

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

Emittent ID	e	Substance Name	Add Date	Carcinogen	Source List(s)	Other Note(s)
97240794		Topiramate	<new>		4	
89778267		Toremifene	<new>		3	
299752	e	Treosulfan		c	3 4	
396010		Triamterene	<new>	c	3 4	
28911015	e	Triazolam [POM]	09/90		1 2 4	
817094		Trichlormethine (Trimustine hydrochloride)	<new>	c	3 4	
1954285		Triethylene glycol diglycidyl ether	<new>		3	
13647353	e	Trilostane	09/90		4	
127480	e	Trimethadione	06/91		4	
82952645		Trimetrexate glucuronate	<new>		4	
5332525		1-Undecanethiol	<new>			7
66751	e	Uracil mustard		c	3 4	
26995915	e	Urofollitropin	09/90		4	
99661	e	Valproate			4	
143679	e	Vinblastine sulfate [POM]	09/90		1 2 3 4	
2068782	e	Vincristine sulfate [POM]	09/90		1 2 3 4	
12001795		Vitamin K substances	<new>		3	
7481892		Zalcitabine	<new>	c	3 4	
30516871		Zidovudine (AZT)	<new>	c	3 4	
111406872		Zileuton	<new>	c	4	

NOTES TO APPENDIX A:

Note	Text of Note
[1]	Emittent ID (the emittent identification number) is the Chemical Abstract Service (CAS) number where available, or an ARB-assigned 4-digit emittent ID code. 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, "( )". 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. 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]. 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.
[2]	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. The square bracket designation, "[ ]", indicates that the substance is a component of the chemical group heading(s) within the brackets. The braces designation, "{ }", indicates a synonym for the substance listed.
[3]	The date the Board approved addition of the substance to the original list. The original list was approved by the Board in July 1988.
[4]	The letter "c" indicates that for purposes of this section the substance shall be treated as a human carcinogen or potential human carcinogen.
[5]	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.

NOTES TO APPENDIX A:

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; (44321(a); Labor Code section 6382(b)(1)): 4 = Governor's List of Carcinogens and Reproductive Toxicants; (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 using the emittent identification number indicated on the table, such as for reporting inorganic versus other-than-inorganic arsenic compounds~~)~~,or for reporting soluble versus insoluble cobalt 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.

NOTES TO APPENDIX A:

Note	Text of Note
[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.

[11] Emissions of the individual, component listed substances must be reported in addition to the total gasoline vapors emissions.

[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.

[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.

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.

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.

NOTES TO APPENDIX A:

Note	Text of Note
[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).
[17]	Emissions of Vanadium (fume or dust) shall be reported as the amount of the vanadium atom equivalent, using the identification number 7440622.
[18]	The emittent identification number 1001 has been replaced with the CAS number 26148685.
[19]	For facilities that are subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.
[20]	Additional Organophosphate Flame Retardants (OPFRs) are listed under the category "Brominated and Chlorinated Organics Compounds used as Flame Retardants".
[21]	When multiple CAS appear to be used for essentially the same chemical, we have included these CAS on the list.
[30]	The facility operator shall report the CAS number and complete chemical name for any substance meeting the definition of this functional group class

NOTE: The notation "11/06" indicates most recently added substances.