

Environmental Protection Agency

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of § 60.482-3(i) and those compressors complying with § 60.482-3(h).

(c) All semiannual reports to the Administrator shall include the following information, summarized from the information in § 60.486:

(1) Process unit identification.

(2) For each month during the semiannual reporting period,

(i) Number of valves for which leaks were detected as described in § 60.482-7(b) or § 60.483-2,

(ii) Number of valves for which leaks were not repaired as required in § 60.482-7(d)(1),

(iii) Number of pumps for which leaks were detected as described in § 60.482-2(b), (d)(4)(ii)(A) or (B), or (d)(5)(iii),

(iv) Number of pumps for which leaks were not repaired as required in § 60.482-2(c)(1) and (d)(6),

(v) Number of compressors for which leaks were detected as described in § 60.482-3(f),

(vi) Number of compressors for which leaks were not repaired as required in § 60.482-3(g)(1), and

(vii) The facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible.

(3) Dates of process unit shutdowns which occurred within the semiannual reporting period.

(4) Revisions to items reported according to paragraph (b) if changes have occurred since the initial report or subsequent revisions to the initial report.

(d) An owner or operator electing to comply with the provisions of §§ 60.483-1 or 60.483-2 shall notify the Administrator of the alternative standard selected 90 days before implementing either of the provisions.

(e) An owner or operator shall report the results of all performance tests in accordance with § 60.8 of the General Provisions. The provisions of § 60.8(d) do not apply to affected facilities subject to the provisions of this subpart except that an owner or operator must notify the Administrator of the schedule for the initial performance tests at least 30 days before the initial performance tests.

(f) The requirements of paragraphs (a) through (c) of this section remain in force until and unless EPA, in dele-

gating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such State. In that event, affected sources within the State will be relieved of the obligation to comply with the requirements of paragraphs (a) through (c) of this section, provided that they comply with the requirements established by the State.

[48 FR 48335, Oct. 18, 1983, as amended at 49 FR 22608, May 30, 1984; 65 FR 61763, Oct. 17, 2000; 72 FR 64883, Nov. 16, 2007]

§ 60.488 Reconstruction.

For the purposes of this subpart:

(a) The cost of the following frequently replaced components of the facility shall not be considered in calculating either the "fixed capital cost of the new components" or the "fixed capital costs that would be required to construct a comparable new facility" under § 60.15: pump seals, nuts and bolts, rupture disks, and packings.

(b) Under § 60.15, the "fixed capital cost of new components" includes the fixed capital cost of all depreciable components (except components specified in § 60.488 (a)) which are or will be replaced pursuant to all continuous programs of component replacement which are commenced within any 2-year period following the applicability date for the appropriate subpart. (See the "Applicability and designation of affected facility" section of the appropriate subpart.) For purposes of this paragraph, "commenced" means that an owner or operator has undertaken a continuous program of component replacement or that an owner or operator has entered into a contractual obligation to undertake and complete, within a reasonable time, a continuous program of component replacement.

[49 FR 22608, May 30, 1984]

§ 60.489 List of chemicals produced by affected facilities.

The following chemicals are produced, as intermediates or final products, by process units covered under this subpart. The applicability date for process units producing one or more of these chemicals is January 5, 1981.

CAS No. ^a	Chemical	CAS No. ^a	Chemical
105-57-7	Acetal.	106-31-0	Butyric anhydride.
75-07-0	Acetaldehyde.	109-74-0	Butyronitrile.
107-89-1	Acetaldol.	105-60-2	Caprolactam.
60-35-5	Acetamide.	75-1-50	Carbon disulfide.
103-84-4	Acetanilide.	558-13-4	Carbon tetrabromide.
64-19-7	Acetic acid.	56-23-5	Carbon tetrachloride.
108-24-7	Acetic anhydride.	9004-35-7	Cellulose acetate.
67-64-1	Acetone.	79-11-8	Chloroacetic acid.
75-86-5	Acetone cyanohydrin.	108-42-9	m-chloroaniline.
75-05-8	Acetonitrile.	95-51-2	o-chloroaniline.
98-86-2	Acetophenone.	106-47-8	p-chloroaniline.
75-36-5	Acetyl chloride.	35913-09-8	Chlorobenzaldehyde.
74-86-2	Acetylene.	108-90-7	Chlorobenzene.
107-02-8	Acrolein.	118-91-2, 535-80-8, 74-11-3 ^c .	Chlorobenzoic acid.
79-06-1	Acrylamide.	2136-81-4,	Chlorobenzotrichloride.
79-10-7	Acrylic acid.	2136-89-2,	
107-13-1	Acrylonitrile.	5216-25-1 ^c .	
124-04-9	Adipic acid.	1321-03-5	Chlorobenzoyl chloride.
111-69-3	Adiponitrile.	25497-29-4	Chlorodifluoromethane.
(^b)	Alkyl naphthalenes.	75-45-6	Chlorodifluoroethane.
107-18-6	Allyl alcohol.	67-66-3	Chloroform.
107-05-1	Allyl chloride.	25586-43-0	Chloronaphthalene.
1321-11-5	Aminobenzoic acid.	88-73-3	o-chloronitrobenzene.
111-41-1	Aminoethylethanolamine.	100-00-5	p-chloronitrobenzene.
123-30-8	p-Aminophenol.	25167-80-0	Chlorophenols.
628-63-7, 123-92-2.	Amyl acetates.	126-99-8	Chloroprene.
71-41-0 ^c	Amyl alcohols.	7790-94-5	Chlorosulfonic acid.
110-58-7	Amyl amine.	108-41-8	m-chlorotoluene.
543-59-9	Amyl chloride.	95-49-8	o-chlorotoluene.
110-66-7 ^c	Amyl mercaptans.	106-43-4	p-chlorotoluene.
1322-06-1	Amyl phenol.	75-72-9	Chlorotrifluoromethane.
62-53-3	Aniline.	108-39-4	m-cresol.
142-04-1	Aniline hydrochloride.	95-48-7	o-cresol.
29191-52-4	Anisidine.	106-44-5	p-cresol.
100-66-3	Anisole.	1319-77-3	Mixed cresols.
118-92-3	Anthranilic acid.	1319-77-3	Cresylic acid.
84-65-1	Anthraquinone.	4170-30-0	Crotonaldehyde.
100-52-7	Benzaldehyde.	3724-65-0	Crotonic acid.
55-21-0	Benzamide.	98-82-8	Cumene.
71-43-2	Benzene.	80-15-9	Cumene hydroperoxide.
98-48-6	Benzenedisulfonic acid.	372-09-8	Cyanoacetic acid.
98-11-3	Benzenesulfonic acid.	506-77-4	Cyanogen chloride.
134-81-6	Benzil.	108-80-5	Cyanuric acid.
76-93-7	Benzilic acid.	108-77-0	Cyanuric chloride.
65-85-0	Benzoic acid.	110-82-7	Cyclohexane.
119-53-9	Benzoin.	108-93-0	Cyclohexanol.
100-47-0	Benzonitrile.	108-94-1	Cyclohexanone.
119-61-9	Benzophenone.	110-83-8	Cyclohexene.
98-07-7	Benzotrichloride.	108-91-8	Cyclohexylamine.
98-88-4	Benzoyl chloride.	111-78-4	Cyclooctadiene.
100-51-6	Benzyl alcohol.	112-30-1	Decanol.
100-46-9	Benzylamine.	123-42-2	Diacetone alcohol.
120-51-4	Benzyl benzoate.	27576-04-1	Diaminobenzoic acid.
100-44-7	Benzyl chloride.	95-76-1, 95-82-9, 554-00-7,	Dichloroaniline.
98-87-3	Benzyl dichloride.	608-27-5,	
92-52-4	Biphenyl.	608-31-1,	
80-05-7	Bisphenol A.	626-43-7,	
10-86-1	Bromobenzene.	27134-27-6,	
27497-51-4	Bromonaphthalene.	57311-92-9 ^c .	
106-99-0	Butadiene.	541-73-1	m-dichlorobenzene.
106-98-9	1-butene.	95-50-1	o-dichlorobenzene.
123-86-4	n-butyl acetate.	106-46-7	p-dichlorobenzene.
141-32-2	n-butyl acrylate.	75-71-8	Dichlorodifluoromethane.
71-36-3	n-butyl alcohol.	111-44-4	Dichloroethyl ether.
78-92-2	s-butyl alcohol.	107-06-2	1,2-dichloroethane (EDC).
75-65-0	t-butyl alcohol.	96-23-1	Dichlorohydrin.
109-73-9	n-butylamine.	26952-23-8	Dichloropropene.
13952-84-6	s-butylamine.	101-83-7	Dicyclohexylamine.
75-64-9	t-butylamine.	109-89-7	Diethylamine.
98-73-7	p-tert-butyl benzoic acid.	111-46-6	Diethylene glycol.
107-88-0	1,3-butylene glycol.	112-36-7	Diethylene glycol diethyl ether.
123-72-8	n-butyraldehyde.		
107-92-6	Butyric acid.		

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CAS No. ^a	Chemical	CAS No. ^a	Chemical
111-96-6	Diethylene glycol dimethyl ether.	110-17-8	Fumaric acid.
112-34-5	Diethylene glycol monobutyl ether.	98-01-1	Furfural.
124-17-4	Diethylene glycol monobutyl ether acetate.	56-81-5	Glycerol.
111-90-0	Diethylene glycol monoethyl ether.	26545-73-7	Glycerol dichlorohydrin.
112-15-2	Diethylene glycol monoethyl ether acetate.	25791-96-2	Glycerol triether.
111-77-3	Diethylene glycol monomethyl ether.	56-40-6	Glycine.
64-67-5	Diethyl sulfate.	107-22-2	Glyoxal.
75-37-6	Difluoroethane.	118-74-1	Hexachlorobenzene.
25167-70-8	Diisobutylene.	67-72-1	Hexachloroethane.
26761-40-0	Diisodecyl phthalate.	36653-82-4	Hexadecyl alcohol.
27554-26-3	Diisooctyl phthalate.	124-09-4	Hexamethylenediamine.
674-82-8	Diketene.	629-11-8	Hexamethylene glycol.
124-40-3	Dimethylamine.	100-97-0	Hexamethylenetetramine.
121-69-7	N,N-dimethylaniline.	74-90-8	Hydrogen cyanide.
115-10-6	N,N-dimethyl ether.	123-31-9	Hydroquinone.
68-12-2	N,N-dimethylformamide.	99-96-7	p-hydroxybenzoic acid.
57-14-7	Dimethylhydrazine.	26760-64-5	Isoamylene.
77-78-1	Dimethyl sulfate.	78-83-1	Isobutanol.
75-18-3	Dimethyl sulfide.	110-19-0	Isobutyl acetate.
67-68-5	Dimethyl sulfoxide.	115-11-7	Isobutylene.
120-61-6	Dimethyl terephthalate.	78-84-2	Isobutyraldehyde.
99-34-3	3,5-dinitrobenzoic acid.	79-31-2	Isobutyric acid.
51-28-5	Dinitrophenol.	25339-17-7	Isodecanol.
25321-14-6	Dinitrotoluene.	26952-21-6	Isooctyl alcohol.
123-91-1	Dioxane.	78-78-4	Isopentane.
646-06-0	Dioxilane.	78-59-1	Isophorone.
122-39-4	Diphenylamine.	121-91-5	Isophthalic acid.
101-84-8	Diphenyl oxide.	78-79-5	Isoprene.
102-08-9	Diphenyl thiourea.	67-63-0	Isopropanol.
25265-71-8	Dipropylene glycol.	108-21-4	Isopropyl acetate.
25378-22-7	Dodecene.	75-31-0	Isopropylamine.
28675-17-4	Dodecylaniline.	75-29-6	Isopropyl chloride.
27193-86-8	Dodecylphenol.	25168-06-3	Isopropylphenol.
106-89-8	Epichlorohydrin.	463-51-4	Ketene.
64-17-5	Ethanol.	(^b)	Linear alkyl sulfonate.
141-43-5 ^c	Ethanolamines.	123-01-3	Linear alkylbenzene (linear dodecylbenzene).
141-78-6	Ethyl acetate.	110-16-7	Maleic acid.
141-97-9	Ethyl acetoacetate.	108-31-6	Maleic anhydride.
140-88-5	Ethyl acrylate.	6915-15-7	Malic acid.
75-04-7	Ethylamine.	141-79-7	Mesityl oxide.
100-41-4	Ethylbenzene.	121-47-1	Metanilic acid.
74-96-4	Ethyl bromide.	79-41-4	Methacrylic acid.
9004-57-3	Ethylcellulose.	563-47-3	Methallyl chloride.
75-00-3	Ethyl chloride.	67-56-1	Methanol.
105-39-5	Ethyl chloroacetate.	79-20-9	Methyl acetate.
105-56-6	Ethylcyanoacetate.	105-45-3	Methyl acetoacetate.
74-85-1	Ethylene.	74-89-5	Methylamine.
96-49-1	Ethylene carbonate.	100-61-8	n-methylaniline.
107-07-3	Ethylene chlorohydrin.	74-83-9	Methyl bromide.
107-15-3	Ethylenediamine.	37365-71-2	Methyl butynol.
106-93-4	Ethylene dibromide.	74-87-3	Methyl chloride.
107-21-1	Ethylene glycol.	108-87-2	Methylcyclohexane.
111-55-7	Ethylene glycol diacetate.	1331-22-2	Methylcyclohexanone.
110-71-4	Ethylene glycol dimethyl ether.	75-09-2	Methylene chloride.
111-76-2	Ethylene glycol monobutyl ether.	101-77-9	Methylene dianiline.
112-07-2	Ethylene glycol monobutyl ether acetate.	101-68-8	Methylene diphenyl diisocyanate.
110-80-5	Ethylene glycol monoethyl ether.	78-93-3	Methyl ethyl ketone.
111-15-9	Ethylene glycol monethyl ether acetate.	107-31-3	Methyl formate.
109-86-4	Ethylene glycol monomethyl ether.	108-11-2	Methyl isobutyl carbinol.
110-49-6	Ethylene glycol monomethyl ether acetate.	108-10-1	Methyl isobutyl ketone.
122-99-6	Ethylene glycol monophenyl ether.	80-62-6	Methyl methacrylate.
2807-30-9	Ethylene glycol monopropyl ether.	77-75-8	Methylpentynol.
75-21-8	Ethylene oxide.	98-83-9	a-methylstyrene.
60-29-7	Ethyl ether	110-91-8	Morpholine.
104-76-7	2-ethylhexanol.	85-47-2	a-naphthalene sulfonic acid.
122-51-0	Ethyl orthoformate.	120-18-3	b-naphthalene sulfonic acid.
95-92-1	Ethyl oxalate.	90-15-3	a-naphthol.
41892-71-1	Ethyl sodium oxalacetate.	135-19-3	b-naphthol.
50-00-0	Formaldehyde.	75-98-9	Neopentanoic acid.
75-12-7	Formamide.	88-74-4	o-nitroaniline.
64-18-6	Formic acid.	100-01-6	p-nitroaniline.
		91-23-6	o-nitroanisole.
		100-17-4	p-nitroanisole.

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CAS No. ^a	Chemical
98-95-3	Nitrobenzene.
27178-83-2 ^c	Nitrobenzoic acid (o,m, and p).
79-24-3	Nitroethane.
75-52-5	Nitromethane.
88-75-5	2-Nitrophenol.
25322-01-4	Nitropropane.
1321-12-6	Nitrotoluene.
27215-95-8	Nonene.
25154-52-3	Nonylphenol.
27193-28-8	Octylphenol.
123-63-7	Paraldehyde.
115-77-5	Pentaerythritol.
109-66-0	n-pentane.
109-67-1	1-pentene
127-18-4	Perchloroethylene.
594-42-3	Perchloromethyl mercaptan.
94-70-2	o-phenetidine.
156-43-4	p-phenetidine.
108-95-2	Phenol.
98-67-9, 585-38-6, 609-46-1, 1333-39-7 ^c	Phenolsulfonic acids.
91-40-7	Phenyl anthranilic acid.
(^b)	Phenylenediamine.
75-44-5	Phosgene.
85-44-9	Phthalic anhydride.
85-41-6	Phthalimide.
108-99-6	b-picoline.
110-85-0	Piperazine.
9003-29-6, 25036-29-7 ^c	Polybutenes.
25322-68-3	Polyethylene glycol.
25322-69-4	Polypropylene glycol.
123-38-6	Propionaldehyde.
79-09-4	Propionic acid.
71-23-8	n-propyl alcohol.
107-10-8	Propylamine.
540-54-5	Propyl chloride.
115-07-1	Propylene.
127-00-4	Propylene chlorohydrin.
78-87-5	Propylene dichloride.
57-55-6	Propylene glycol.
75-56-9	Propylene oxide.
110-86-1	Pyridine.
106-51-4	Quinone.
108-46-3	Resorcinol.
27138-57-4	Resorcylic acid.
69-72-7	Salicylic acid.
127-09-3	Sodium acetate.
532-32-1	Sodium benzoate.
9004-32-4	Sodium carboxymethyl cellulose.
3926-62-3	Sodium chloroacetate.
141-53-7	Sodium formate.
139-02-6	Sodium phenate.
110-44-1	Sorbic acid.
100-42-5	Styrene.
110-15-6	Succinic acid.
110-61-2	Succinonitrile.
121-57-3	Sulfanilic acid.
126-33-0	Sulfolane.
1401-55-4	Tannic acid.
100-21-0	Terephthalic acid.
79-34-5 ^c	Tetrachloroethanes.
117-08-8	Tetrachlorophthalic anhydride.
78-00-2	Tetraethyl lead.
119-64-2	Tetrahydronaphthalene.
85-43-8	Tetrahydrophthalic anhydride.
75-74-1	Tetramethyl lead.
110-60-1	Tetramethylenediamine.
110-18-9	Tetramethylethylenediamine.
108-88-3	Toluene.
95-80-7	Toluene-2,4-diamine.
584-84-9	Toluene-2,4-diisocyanate.
26471-62-5	Toluene diisocyanates (mixture).

CAS No. ^a	Chemical
1333-07-9	Toluenesulfonamide.
104-15-4 ^c	Toluenesulfonic acids.
98-59-9	Toluenesulfonyl chloride.
26915-12-8	Toluidines.
87-61-6, 108-70-3, 120-82-1 ^c	Trichlorobenzenes.
71-55-6	1,1,1-trichloroethane.
79-00-5	1,1,2-trichloroethane.
79-01-6	Trichloroethylene.
75-69-4	Trichlorofluoromethane.
96-18-4	1,2,3-trichloropropane.
76-13-1	1,1,2-trichloro-1,2,2-trifluoroethane.
121-44-8	Triethylamine.
112-27-6	Triethylene glycol.
112-49-2	Triethylene glycol dimethyl ether.
7756-94-7	Triisobutylene.
75-50-3	Trimethylamine.
57-13-6	Urea.
108-05-4	Vinyl acetate.
75-01-4	Vinyl chloride.
75-35-4	Vinylidene chloride.
25013-15-4	Vinyl toluene.
1330-20-7	Xylenes (mixed).
95-47-6	o-xylene.
106-42-3	p-xylene.
1300-71-6	Xylenol.
1300-73-8	Xylidine.

^aCAS numbers refer to the Chemical Abstracts Registry numbers assigned to specific chemicals, isomers, or mixtures of chemicals. Some isomers or mixtures that are covered by the standards do not have CAS numbers assigned to them. The standards apply to all of the chemicals listed, whether CAS numbers have been assigned or not.

^bNo CAS number(s) have been assigned to this chemical, its isomers, or mixtures containing these chemicals.

^cCAS numbers for some of the isomers are listed; the standards apply to all of the isomers and mixtures, even if CAS numbers have not been assigned.

[48 FR 48335, Oct. 18, 1983, as amended at 65 FR 61763, Oct. 17, 2000]

Subpart VVa—Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006

SOURCE: 72 FR 64883, Nov. 16, 2007, unless otherwise noted.

§ 60.480a Applicability and designation of affected facility.

(a)(1) The provisions of this subpart apply to affected facilities in the synthetic organic chemicals manufacturing industry.

(2) The group of all equipment (defined in §60.481a) within a process unit is an affected facility.