

Environmental Protection Agency

Pt. 192, App. I

	pCi/liter
Gross alpha-particle activity (excluding radon and uranium)	15

Subpart E—Standards for Management of Thorium Byproduct Materials Pursuant to Section 84 of the Atomic Energy Act of 1954, as Amended

SOURCE: 48 FR 45947, Oct. 7, 1983, unless otherwise noted.

§ 192.40 Applicability.

This subpart applies to the management of thorium byproduct materials under section 84 of the Atomic Energy Act of 1954, as amended, during and following processing of thorium ores, and to restoration of disposal sites following any use of such sites under section 83(b)(1)(B) of the Act.

§ 192.41 Provisions.

Except as otherwise noted in § 192.41(e), the provisions of subpart D of this part, including §§ 192.31, 192.32, and 192.33, shall apply to thorium byproduct material and:

(a) Provisions applicable to the element uranium shall also apply to the element thorium;

(b) Provisions applicable to radon-222 shall also apply to radon-220; and

(c) Provisions applicable to radium-226 shall also apply to radium-228.

(d) Operations covered under § 192.32(a) shall be conducted in such a manner as to provide reasonable assurance that the annual dose equivalent does not exceed 25 millirems to the whole body, 75 millirems to the thyroid, and 25 millirems to any other organ of any member of the public as a result of exposures to the planned discharge of radioactive materials, radon-220 and its daughters excepted, to the general environment.

(e) The provisions of § 192.32(a) (3) and (4) do not apply to the management of thorium byproduct material.

[48 FR 45946, Oct. 7, 1983, as amended at 58 FR 60356, Nov. 15, 1993]

§ 192.42 Substitute provisions.

The regulatory agency may, with the concurrence of EPA, substitute for any

provisions of § 192.41 of this subpart alternative provisions it deems more practical that will provide at least an equivalent level of protection for human health and the environment.

§ 192.43 Effective date.

Subpart E shall be effective December 6, 1983.

APPENDIX I TO PART 192—LISTED CONSTITUENTS

- Acetonitrile
- Acetophenone (Ethanone, 1-phenyl)
- 2-Acetylaminofluorene (Acetamide, N-9H-fluoren-2-yl-)
- Acetyl chloride
- 1-Acetyl-2-thiourea (Acetamide, N-(aminothioxymethyl)-)
- Acrolein (2-Propenal)
- Acrylamide (2-Propenamide)
- Acrylonitrile (2-Propenenitrile)
- Aflatoxins
- Aldicarb (Propenal, 2-methyl-2-(methylthio)-,O-[(methylamino)carbonyl]oxime
- Aldrin (1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro(1 α ,4 α ,4a β ,5 α ,8 α ,8 $\alpha\beta$)-)
- Allyl alcohol (2-Propen-1-ol)
- Allyl chloride (1-Propane,3-chloro)
- Aluminum phosphide
- 4-Aminobiphenyl ([1,1'-Biphenyl]-4-amine)
- 5-(Aminomethyl)-3-isoxazolol (3(2H)-Isoxazolone,5-(aminomethyl)-)
- 4-Aminopyridine (4-Pyridineamine)
- Amitrole (1H-1,2,4-Triazol-3-amine)
- Ammonium vanadate (Vanadic acid, ammonium salt)
- Aniline (Benzenamine)
- Antimony and compounds, N.O.S.¹
- Aramite (Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester)
- Arsenic and compounds, N.O.S.
- Arsenic acid (Arsenic acid H₃ AsO₄)
- Arsenic pentoxide (Arsenic oxide As₂ O₅)
- Auramine (Benzamine, 4,4'-carbonimidoylbis[N,N-dimethyl-])
- Azaserine (L-Serine, diazoacetate (ester))
- Barium and compounds, N.O.S.
- Barium cyanide
- Benz[c]acridine (3,4-Benzacridine)
- Benz[a]anthracene (1,2-Benzanthracene)
- Benzal chloride (Benzene, dichloromethyl-)
- Benzene (Cyclohexatriene)
- Benzeneearsonic acid (Arsenic acid, phenyl-)
- Benzidine ([1,1'-Biphenyl]-4,4'-diamine)
- Benzo[b]fluoranthene (Benz[e]acephananthrylene)

¹The abbreviation N.O.S. (not otherwise specified) signifies those members of the general class not specifically listed by name in this appendix.

Benzo[j]fluoranthene	Crotonaldehyde (2-Butenal)
Benzo[k]fluoranthene	Cyanides (soluble salts and complexes), N.O.S.
Benzo[a]pyrene	Cyanogen (Ethanedinitrile)
p-Benzoquinone (2,5-Cyclohexadiene-1,4-dione)	Cyanogen bromide ((CN)Br)
Benzotrichloride (Benzene, (trichloromethyl)-)	Cyanogen chloride ((CN)Cl)
Benzyl chloride (Benzene, (chloromethyl)-)	Cycasin (beta-D-Glucopyranoside, (methyl-ONN-azoxy)methyl)
Beryllium and compounds, N.O.S.	2-Cyclohexyl-4,6-dinitrophenol (Phenol, 2-cyclohexyl-4,6-dinitro-)
Bromoacetone (2-Propanone, 1-bromo-)	Cyclophosphamide (2H-1,3,2-Oxazaphosphorin-2-amine,N,N-bis(2-chloroethyl)tetrahydro-,2-oxide)
Bromoform (Methane, tribromo-)	2,4-D and salts and esters (Acetic acid, (2,4-dichlorophenoxy)-)
4-Bromophenyl phenyl ether (Benzene, 1-bromo-4-phenoxy-)	Daunomycin (5,12-Naphthacenedione,8-acetyl-10-[(3-amino-2,3,6-trideoxy- α -L-lyxohexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (8S-cis))
Brucine (Strychnidin-10-one, 2,3-dimethoxy-)	DDD (Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro-])
Butyl benzyl phthalate (1,2-Benzenedicarboxylic acid, butyl phenylmethyl ester)	DDE (Benzene, 1,1-(dichloroethylidene)bis[4-chloro-])
Cacodylic acid (Arsinic acid, dimethyl)	DDT (Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro-])
Cadmium and compounds, N.O.S.	Diallate (Carbomethioic acid, bis(1-methylethyl)-,S-(2,3-dichloro-2-propenyl) ester)
Calcium chromate (Chromic acid H ₂ CrO ₄ , calcium salt)	Dibenz[a,h]acridine
Calcium cyanide (Ca(CN) ₂)	Dibenz[a,j]acridine
Carbon disulfide	Dibenz[a,h]anthracene
Carbon oxyfluoride (Carbonic difluoride)	7H-Dibenzo[c,g]carbazole
Carbon tetrachloride (Methane, tetrachloro-)	Dibenzo[a,e]pyrene (Naphtho[1,2,4,5-def]crysene)
Chloral (Acetaldehyde, trichloro-)	Dibenzo[a,h]pyrene (Dibenzo[b,def]crysene)
Chlorambucil (Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-)	Dibenzo[a,i]pyrene (Benzo[<i>rst</i>]pentaphene)
Chlordane (4,7-Methano-1H-indene,1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-)	1,2-Dibromo-3-chloropropane (Propane, 1,2-dibromo-3-chloro-)
Chlorinated benzenes, N.O.S.	Dibutylphthalate (1,2-Benzenedicarboxylic acid, dibutyl ester)
Chlorinated ethane, N.O.S.	o-Dichlorobenzene (Benzene, 1,2-dichloro-)
Chlorinated fluorocarbons, N.O.S.	m-Dichlorobenzene (Benzene, 1,3-dichloro-)
Chlorinated naphthalene, N.O.S.	p-Dichlorobenzene (Benzene, 1,4-dichloro-)
Chlorinated phenol, N.O.S.	Dichlorobenzene, N.O.S. (Benzene; dichloro-, N.O.S.)
Chlornaphazin (Naphthalenamine, N,N'-bis(2-chlorethyl)-)	3,3'-Dichlorobenzidine ([1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro-)
Chloroacetaldehyde (Acetaldehyde, chloro-)	1,4-Dichloro-2-butene (2-Butene, 1,4-dichloro-)
Chloroalkyl ethers, N.O.S.	Dichlorodifluoromethane (Methane, dichlorodifluoro-)
p-Chloroaniline (Benzenamine, 4-chloro-)	Dichloroethylene, N.O.S.
Chlorobenzene (Benzene, chloro-)	1,1-Dichloroethylene (Ethene, 1,1-dichloro-)
Chlorobenzilate (Benzenoacetic acid, 4-chloro- α -(4-chlorophenyl)- α -hydroxy-, ethyl ester)	1,2-Dichloroethylene (Ethene, 1,2-dichloro-, (E)-)
p-Chloro-m-cresol (Phenol, 4-chloro-3-methyl)	Dichloroethyl ether (Ethane, 1,1'-oxybis[2-chloro-])
2-Chloroethyl vinyl ether (Ethene, (2-chloroethoxy)-)	Dichloroisopropyl ether (Propane, 2,2'-oxybis[2-chloro-])
Chloroform (Methane, trichloro-)	Dichloromethoxy ethane (Ethane, 1,1'-[methylenebis(oxy)bis[2-chloro-])
Chloromethyl methyl ether (Methane, chloromethoxy-)	Dichloromethyl ether (Methane, oxybis[chloro-])
β -Chloronaphthalene (Naphthalene, 2-chloro-)	2,4-Dichlorophenol (Phenol, 2,4-dichloro-)
o-Chlorophenol (Phenol, 2-chloro-)	2,6-Dichlorophenol (Phenol, 2,6-dichloro-)
1-(o-Chlorophenyl)thiourea (Thiourea, (2-chlorophenyl)-)	
3-Chloropropionitrile (Propanenitrile, 3-chloro-)	
Chromium and compounds, N.O.S.	
Chrysene	
Citrus red No. 2 (2-Naphthalenol, 1-[(2,5-dimethoxyphenyl)azo]-)	
Coal tar creosote	
Copper cyanide (CuCN)	
Creosote	
Cresol (Chresylic acid) (Phenol, methyl-)	

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Dichlorophenylarsine (Arsinous dichloride, phenyl-)
 Dichloropropane, N.O.S. (Propane, dichloro-)
 Dichloropropanol, N.O.S. (Propanol, dichloro-)
 Dichloropropene; N.O.S. (1-Propane, dichloro-)
 1,3-Dichloropropene (1-Propene, 1,3-dichloro-)
 Dieldrin (2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a,octahydro-, (1 α ,2 β ,2 α ,3 β ,6 β ,6 α ,7 β ,7 α)-)
 1,2,3,4-Diepoxybutane (2,2'-Bioxirane)
 Diethylarsine (Arsine, diethyl-)
 1,4 Diethylene oxide (1,4-Dioxane)
 Diethylhexyl phthalate (1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester)
 N,N-Diethylhydrazine (Hydrazine, 1,2-diethyl)
 O,O-Diethyl S-methyl dithiophosphate (Phosphorodithioic acid, O,O-diethyl S-methyl ester)
 Diethyl-p-nitrophenyl phosphate (Phosphoric acid, diethyl 4-nitrophenyl ester)
 Diethyl phthalate (1,2-Benzenedicarboxylic acid, diethyl ester)
 O,O-Diethyl O-pyrazinyl phosphorothioate (Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester)
 Diethylstilbesterol (Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-,(E)-)
 Dihydrosafrole (1,3-Benzodioxole, 5-propyl-)
 Diisopropylfluorophosphate (DFP) (Phosphorofluoridic acid, bis(1-methyl ethyl) ester)
 Dimethoate (Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino) 2-oxoethyl] ester)
 3,3'-Dimethoxybenzidine ([1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy-)
 p-Dimethylaminoazobenzene (Benzenamine, N,N-dimethyl-4-(phenylazo)-)
 7,12-Dimethylbenz[a]anthracene (Benz[a]anthracene, 7,12-dimethyl-)
 3,3'-Dimethylbenzidine ([1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-)
 Dimethylcarbamoyl chloride (carbamic chloride, dimethyl-)
 1,1-Dimethylhydrazine (Hydrazine, 1,1-dimethyl-)
 1,2-Dimethylhydrazine (Hydrazine, 1,2-dimethyl-)
 α,α -Dimethylphenethylamine (Benzeneethanamine, α,α -dimethyl-)
 2,4-Dimethylphenol (Phenol, 2,4-dimethyl-)
 Dimethylphthalate (1,2-Benzenedicarboxylic acid, dimethyl ester)
 Dimethyl sulfate (Sulfuric acid, dimethyl ester)
 Dinitrobenzene, N.O.S. (Benzene, dinitro-)
 4,6-Dinitro-o-cresol and salts (Phenol, 2-methyl-4,6-dinitro-)
 2,4-Dinitrophenol (Phenol, 2,4-dinitro-)
 2,4-Dinitrotoluene (Benzene, 1-methyl-2,4-dinitro-)
 2,6-Dinitrotoluene (Benzene, 2-methyl-1,3-dinitro-)
 Dinoseb (Phenol, 2-(1-methylpropyl)-4,6-dinitro-)
 Di-n-octyl phthalate (1,2-Benzenedicarboxylic acid, dioctyl ester)
 1,4-Dioxane (1,4-Diethyleneoxide)
 Diphenylamine (Benzenamine, N-phenyl-)
 1,2-Diphenylhydrazine (Hydrazine, 1,2-diphenyl-)
 Di-n-propyl nitrosamine (1-Propanamine, N-nitroso-N-propyl-)
 Disulfoton (Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester)
 Dithiobiuret (Thioimidodicarbonic diamide [(H₂ N)C(S)]₂ NH)
 Endosulfan (6,9,Methano-2,4,3-benzodioxathiepin,6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9ahexahydro,3-oxide)
 Endothall (7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid)
 Endrin and metabolites (2,7:3,6-Dimethanonaphth[2,3-b]oxirene,3,4,5,6,9,9-hexachloro1a,2,2a,3,6,6a,7,7a-octa-hydro, (1 α ,2 β ,2 α ,3 β ,3 α ,6 α ,6 β ,7 β ,7 α)-)
 Epichlorohydrin (Oxirane, (chloromethyl)-)
 Epinephrine (1,2-Benzenediol,4-[1-hydroxy-2-(methylamino)ethyl]-,(R)-)
 Ethyl carbamate (urethane) (Carbamic acid, ethyl ester)
 Ethyl cyanide (propanenitrile)
 Ethylenebisdithiocarbamic acid, salts and esters (Carbamodithioic acid, 1,2-Ethanediybis-)
 Ethylene dibromide (1,2-Dibromoethane)
 Ethylene dichloride (1,2-Dichloroethane)
 Ethylene glycol monoethyl ether (Ethanol, 2-ethoxy-)
 Ethyleneimine (Aziridine)
 Ethylene oxide (Oxirane)
 Ethylenethiourea (2-Imidazolidinethione)
 Ethylidene dichloride (Ethane, 1,1-Dichloro-)
 Ethyl methacrylate (2-Propenoic acid, 2-methyl-, ethyl ester)
 Ethylmethane sulfonate (Methanesulfonic acid, ethyl ester)
 Famphur (Phosphorothioic acid, O-[4-[(dimethylamino)sulphonyl]phenyl] O,O-dimethyl ester)
 Fluoranthene
 Fluorine
 Fluoroacetamide (Acetamide, 2-fluoro-)
 Fluoroacetic acid, sodium salt (Acetic acid, fluoro-, sodium salt)
 Formaldehyde (Methylene oxide)
 Formic acid (Methanoic acid)
 Glycidylaldehyde (Oxiranecarboxyaldehyde)
 Halomethane, N.O.S.
 Heptachlor (4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-)
 Heptachlor epoxide (α , β , and γ isomers) (2,5-Methano-2H-indeno[1,2-b]-oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1 α ,1 β ,2 α ,5 α ,5 β ,6 β ,6 α)-)
 Hexachlorobenzene (Benzene, hexachloro-)

Hexachlorobutadiene (1,3-Butadiene, 1,1,2,3,4,4-hexachloro-)	Methylene bromide (Methane, dibromo-)
Hexachlorocyclopentadiene (1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-)	Methylene chloride (Methane, dichloro-)
Hexachlorodibenzofurans	Methyl ethyl ketone (MEK) (2-Butanone)
Heptachlorodibenzo-p-dioxins	Methyl ethyl ketone peroxide (2-Butanone, peroxide)
Hexachloroethane (Ethane, hexachloro-)	Methyl hydrazine (Hydrazine, methyl-)
Hexachlorophene (phenol, 2,2'-Methylenebis[3,4,6-trichloro-])	Methyl iodide (Methane, iodo-)
Hexachloropropene (1-Propene, 1,1,2,3,3,3-hexachloro-)	Methyl isocyanate (Methane, isocyanato-)
Hexaethyl tetraphosphate (Tetraphosphoric acid, hexaethyl ester)	2-Methylactonitrile (Propanenitrile, 2-hydroxy-2-methyl-)
Hydrazine	Methyl methacrylate (2-Propenoic acid, 2-methyl-, methyl ester)
Hydrocyanic acid	Methyl methanesulfonate (Methanesulfonic acid, methyl ester)
Hydrofluoric acid	Methyl parathion (Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester)
Hydrogen sulfide (H ₂ S)	Methylthiouracil (4(1H)Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-)
Indeno(1,2,3-cd)pyrene	Mitomycin C (Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione,6-amino-8-[[aminocarbonyl]oxy]methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl-, [1aS-(1aα,8β,8aα,8bα)]-)
Isobutyl alcohol (1-Propanol, 2-methyl-)	MNNG (Guanidine, N-methyl-N'-nitro-N-nitroso-)
Isodrin (1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro, (1α,4α,4aβ,5β,8β,8aβ)-)	Mustard gas (Ethane, 1,1'-thiobis[2-chloro-])
Isosafrole (1,3-Benzodioxole, 5-(1-propenyl)-)	Naphthalene
Kepone (1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-)	1,4-Naphthoquinone (1,4-Naphthalenedione)
Lasiocarpine (2-Butenoic acid, 2-methyl-,7-[[2,3-dihydroxy-2-(1-methoxyethyl)-3-methyl-1-oxobutoxy]methyl]-2,3,5,7a-tetrahydro-1H-pyrrolizin-1-yl ester)	α-Naphthalenamine (1-Naphthylamine)
Lead and compounds, N.O.S.	β-Naphthalenamine (2-Naphthylamine)
Lead acetate (Acetic acid, lead(2+) salt)	α-Naphthylthiourea (Thiourea, 1-naphthalenyl-)
Lead phosphate (Phosphoric acid, lead(2+) salt(2:3))	Nickel and compounds, N.O.S.
Lead subacetate (Lead, bis(acetato-O)tetrahydroxytri-)	Nickel carbonyl (Ni(CO) ₄ (T-4)-)
Lindane (Clohexane, 1,2,3,4,5,6-hexachloro-, (1α,2α,3β,4α,5α,6β)-)	Nickel cyanide (Ni(CN) ₂)
Maleic anhydride (2,5-Furandione)	Nicotine and salts (Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-)
Maleic hydrazide (3,6-Pyridazinedione, 1,2-dihydro-)	Nitric oxide (Nitrogen oxide NO)
Malononitrile (Propanedinitrile)	p-Nitroaniline (Benzenamine, 4-nitro-)
Melphalan (L-Phenylalanine, 4-[bis(2-chloroethyl)aminol]-)	Nitrobenzene (Benzene, nitro-)
Mercury and compounds, N.O.S.	Nitrogen dioxide (Nitrogen oxide NO ₂)
Mercury fulminate (Fulminic acid, mercury(2+) salt)	Nitrogen mustard, and hydrochloride salt (Ethanamine, 2-chloro-N-(2-chloroethyl)-N-methyl-)
Methacrylonitrile (2-Propenenitrile, 2-methyl-)	Nitrogen mustard N-oxide and hydrochloride salt (Ethanamine, 2chloro-N-(2-chloroethyl)N-methyl-, N-oxide)
Methapyrilene (1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-)	Nitroglycerin (1,2,3-Propanetriol, trinitrate)
Metholmyl (Ethamidothioic acid, N-[[methylamino]carbonyl]oxy]thio-, methyl ester)	p-Nitrophenol (Phenol, 4-nitro-)
Methoxychlor (Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-methoxy-])	2-Nitropropane (Propane, 2-nitro-)
Methyl bromide (Methane, bromo-)	Nitrosamines, N.O.S.
Methyl chloride (Methane, chloro-)	N-Nitrosodi-n-butylamine (1-Butanamine, N-butyl-N-nitroso-)
Methyl chlorocarbonate (Carbonchloridic acid, methyl ester)	N-Nitrosodiethanolamine (Ethanol, 2,2'-(nitrosoimino)bis-)
Methyl chloroform (Ethane, 1,1,1-trichloro-)	N-Nitrosodiethylamine (Ethanamine, N-ethyl-N-nitroso-1)
3-Methylcholanthrene (Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-)	N-Nitrosodimethylamine (Methanamine, N-methyl-N-nitroso-)
4,4'-Methylenebis(2-chloroaniline) (Benzenamine, 4,4'-methylenebis(2-chloro-))	N-Nitroso-N-ethylurea (Urea, N-ethyl-N-nitroso-)
	N-Nitrosomethylethylamine (Ethanamine, N-methyl-N-nitroso-)
	N-Nitroso-N-methylurea (Urea, N-methyl-N-nitroso-)
	N-Nitroso-N-methylurethane (Carbamic acid, methylnitroso-, ethyl ester)

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N-Nitrosomethylvinylamine (Vinylamine, N-methyl-N-nitroso-)
 N-Nitrosomorpholine (Morpholine, 4-nitroso-)
 N-Nitrosornicotine (Pyridine, 3-(1-nitroso-2-pyrrolidinyl)-, (S)-)
 N-Nitrosopiperidine (Piperidine, 1-nitroso-)
 Nitrosopyrrolidine (Pyrrolidine, 1-nitroso-)
 N-Nitrososarcosine (Glycine, N-methyl-N-nitroso-)
 5-Nitro-o-toluidine (Benzenamine, 2-methyl-5-nitro-)
 Octamethylpyrophosphoramidate (Diphosphoramidate, octamethyl-)
 Osmium tetroxide (Osmium oxide OsO₄, (T-4)-)
 Paraldehyde (1,3,5-Trioxane, 2,4,6-trimethyl-)
 Parathion (Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester)
 Pentachlorobenzene (Benzene, pentachloro-)
 Pentachlorodibenzo-p-dioxins
 Pentachlorodibenzofurans
 Pentachloroethane (Ethane, pentachloro-)
 Pentachloronitrobenzene (PCNB) (Benzene, pentachloronitro-)
 Pentachlorophenol (Phenol, pentachloro-)
 Phenacetin (Acetamide, N-(4-ethoxyphenyl)-)
 Phenol
 Phenylenediamine (Benzenediamine)
 Phenylmercury acetate (Mercury, (acetato-O)phenyl-)
 Phenylthiourea (Thiourea, phenyl-)
 Phosgene (Carbonic dichloride)
 Phosphine
 Phorate (Phosphorodithioic acid, O,O-diethyl S-[(ethylthiomethyl) ester])
 Phthalic acid esters, N.O.S.
 Phthalic anhydride (1,3-isobenzofurandione)
 2-Picoline (Pyridine, 2-methyl-)
 Polychlorinated biphenyls, N.O.S.
 Potassium cyanide (K(CN))
 Potassium silver cyanide (Argentate(1-), bis(cyano-C)-, potassium)
 Pronamide (Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-)
 1,3-Propane sultone (1,2-Oxathiolane, 2,2-dioxide)
 n-Propylamine (1-Propanamine)
 Propargyl alcohol (2-Propyn-1-ol)
 Propylene dichloride (Propane, 1,2-dichloro-)
 1,2-Propylenimine (Aziridine, 2-methyl-)
 Propylthiouracil (4(1H)-Pyrimidinone, 2,3-dihydro-6-propyl-2-thioxo-)
 Pyridine
 Reserpinen (Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-smethyl ester, (3β,16 β,17α,18β,20α)-)
 Resorcinol (1,3-Benzenediol)
 Saccharin and salts (1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide)
 Safrole (1,3-Benzodioxole, 5-(2-propenyl)-)
 Selenium and compounds, N.O.S.
 Selenium dioxide (Selenious acid)
 Selenium sulfide (SeS₂)
 Selenourea
 Silver and compounds, N.O.S.
 Silver cyanide (Silver cyanide Ag(CN))
 Silvex (Propanoic acid, 2-(2,4,5-trichlorophenoxy)-)
 Sodium cyanide (Sodium cyanide Na(CN))
 Streptozotocin (D-Glucose, 2-deoxy-2-[[methylnitrosoamino]carbonyl]amino-)
 Strychnine and salts (Strychnidin-10-one)
 TCDD (Dibenzo[b,e][1,4]dioxin, 2,3,7,8-tetrachloro-)
 1,2,4,5-Tetrachlorobenzene (Benzene, 1,2,4,5-tetrachloro-)
 Tetrachlorodibenzo-p-dioxins
 Tetrachlorodibenzofurans
 Tetrachloroethane, N.O.S. (Ethane, tetrachloro-, N.O.S.)
 1,1,1,2-Tetrachloroethane (Ethane, 1,1,1,2-tetrachloro-)
 1,1,2,2-Tetrachloroethane (Ethane, 1,1,2,2-tetrachloro-)
 Tetrachloroethylene (Ethene, tetrachloro-)
 2,3,4,6-Tetrachlorophenol (Phenol, 2,3,4,6-tetrachloro-)
 Tetraethylthiopyrophosphate (Thiodiphosphoric acid, tetraethyl ester)
 Tetraethyl lead (Plumbane, tetraethyl-)
 Tetraethyl pyrophosphate (Diphosphoric acid, tetraethyl ester)
 Tetranitromethane (Methane, tetranitro-)
 Thallium and compounds, N.O.S.
 Thallic oxide (Thallium oxide Tl₂O₃)
 Thallium (I) acetate (Acetic acid, thallium (1+) salt)
 Thallium (I) carbonate (Carbonic acid, dithallium (1+) salt)
 Thallium (I) chloride (Thallium chloride TlCl)
 Thallium (I) nitrate (Nitric acid, thallium (1+) salt)
 Thallium selenite (Selenious acid, dithallium (1+) salt)
 Thallium (I) sulfate (Sulfuric acid, thallium (1+) salt)
 Thioacetamide (Ethanethioamide)
 3, Thiofanox (2-Butanone, 3,3-dimethyl-1-(methylthio)-, O-[(methylamino)carbonyl] oxime)
 Thiomethanol (Methanethiol)
 Thiophenol (Benzenethiol)
 Thiosemicarbazide (Hydrazinecarbothioamide)
 Thiourea
 Thiram (Thioperoxydicarbonic diamide [(H₂N)C(S)]₂S₂, tetramethyl-)
 Toluene (Benzene, methyl-)
 Toluenediamine (Benzenediamine, ar-methyl-)
 Toluene-2,4-diamine (1,3-Benzenediamine, 4-methyl-)
 Toluene-2,6-diamine (1,3-Benzenediamine, 2-methyl-)
 Toluene-3,4-diamine (1,2-Benzenediamine, 4-methyl-)
 Toluene diisocyanate (Benzene, 1,3-diisocyanatomethyl-)
 o-Toluidine (Benzenamine, 2-methyl-)

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o-Toluidine hydrochloride (Benzenamine, 2-methyl-, hydrochloride)
p-Toluidine (Benzenamine, 4-methyl-)
Toxaphene
1,2,4-Trichlorobenzene (Benzene, 1,2,4-trichloro-)
1,1,2-Trichloroethane (Ethane, 1,1,2-trichloro-)
Trichloroethylene (Ethene, trichloro-)
Trichloromethanethiol (Methanethiol, trichloro-)
Trichloromonofluoromethane (Methane, trichlorofluoro-)
2,4,5-Trichlorophenol (Phenol, 2,4,5-trichloro-)
2,4,6-Trichlorophenol (Phenol, 2,4,6-trichloro-)
2,4,5-T (Acetic acid, 2,4,5-trichlorophenoxy-)
Trichloropropane, N.O.S.
1,2,3-Trichloropropane (Propane, 1,2,3-trichloro-)
O,O,O-Triethyl phosphorothioate (Phosphorothioic acid, O,O,O-triethyl ester)
Trinitrobenzene (Benzene, 1,3,5-trinitro-)
Tris(1-aziridinyl)phosphine sulfide (Aziridine, 1,1',1' phosphinothioylidynetris-)
Tris(2,3-dibromopropyl) phosphate (1-Propanol, 2,3-dibromo-, phosphate (3:1))
Trypan blue (2,7-Naphthalendisulfonic acid, 3,3'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis(5-amino-4-hydroxy-, tetrasodium salt)
Uracil mustard (2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]-)
Vanadium pentoxide (Vanadium oxide V₂ O₅)
Vinyl chloride (Ethene, chloro-)
Wayfarin (2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-)
Zinc cyanide (Zn(CN)₂)
Zinc phosphide (Zn₃ P₂)
[60 FR 2868, Jan. 11, 1995]

PART 194—CRITERIA FOR THE CERTIFICATION AND RE-CERTIFICATION OF THE WASTE ISOLATION PILOT PLANT'S COMPLIANCE WITH THE 40 CFR PART 191 DISPOSAL REGULATIONS

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