to 50 ppm must be stored at a facility that meets the requirements of 40 CFR 761.65(b) and must be removed from storage and treated or disposed as required by this part within one year of the date when such wastes are first placed into storage. The provisions of paragraph (c) of this section do not apply to such PCB wastes prohibited under §268.32 of this part.

[51 FR 40642, Nov. 7, 1986; 52 FR 21017, June 4, 1987, as amended at 52 FR 25791, July 8, 1987; 54 FR 36972, Sept. 6, 1989; 57 FR 37281, Aug. 18, 1992]

## APPENDIX I TO PART 268 [RESERVED]

## APPENDIX II [RESERVED]

## APPENDIX III TO PART 268 [RESERVED]

## APPENDIX IV TO PART 268—WASTES EXCLUDED FROM LAB PACKS UNDER THE ALTERNATIVE TREATMENT STANDARDS OF §268.42(c)

Hazardous waste with the following EPA Hazardous Waste Codes may not be placed in lab packs under the alternative lab pack treatment standards of §268.42(c): D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, U151.

[59 FR 48107 Sept. 19, 1994]

## APPENDIX V TO PART 268 [RESERVED]

## APPENDIX VI TO PART 268—RECOMMENDED TECHNOLOGIES TO ACHIEVE DEACTIVATION OF CHARACTERISTICS IN SECTION 268.42

The treatment standard for many characteristic wastes is stated in the §268.40 Table of Treatment Standards as ''Deactivation and meet UTS.'' EPA has determined that many technologies, when used alone or in combination, can achieve the deactivation portion of the treatment standard. Characteristic wastes that are not managed in a facility regulated by the Clean Water Act (CWA) or in a CWA-equivalent facility, and that also contain underlying hazardous constituents (see §268.2(i)) must be treated not only by a ''deactivating'' technology to remove the characteristic, but also to achieve the universal treatment standards (UTS) for underlying hazardous constituents. The following appendix presents a partial list of technologies, utilizing the five letter technology codes established in 40 CFR 268.42 Table 1, that may be useful in meeting the treatment standard. Use of these specific technologies is not mandatory and does not preclude direct reuse, recovery, and/or the use of other pretreatment technologies, provided deactivation is achieved and underlying hazardous constituents are treated to achieve the UTS.

| Waste code/subcategory | Nonwastewaters | Wastewaters |
|---|---|---|
| D001 Ignitable Liquids based on 261.21(a)(1)—Low TOC Nonwastewater Subcategory (containing 1% to <10% TOC) | RORGS | n.a. |
| | INCIN | |
| | WETOX | |
| | CHOXD | |
| | BIODG | |
| D001 Ignitable Liquids based on 261.21(a)(1)—Ignitable Wastewater Subcategory (containing <1% TOC) | n.a. | RORGS |
| | | INCIN |
| | | WETOX |
| | | CHOXD |
| | | BIODG |
| D001 Compressed Gases based on 261.21(A)(3) | RCGAS | n.a. |
| | INCIN | |
| | FSUBS | |
| | ADGAS fb. INCIN | |
| | ADGAS fb. (CHOXD; or CHRED) | |
| D001 Ignitable Reactives based on 261.21(a)(2) | WTRRX | n.a. |
| | CHOXD | |
| | CHRED | |
| | STABL | |
| | INCIN | |
| D001 Ignitable Oxidizers based on 261.21(a)(4) | CHRED | CHRED |
| | INCIN | INCIN |
| D002 Acid Subcategory based on 261.22(a)(1) with pH less than or equal to 2 | RCORR | NEUTR |
| | NEUTR | INCIN |
| | INCIN | |
| D002 Alkaline Subcategory based on 261.22(a)(1) with pH greater than or equal to 12.5 | NEUTR | NEUTR |
| | INCIN | INCIN |
| D002 Other Corrosives based on 261.22(a)(2) | CHOXD | CHOXD |
| | CHRED | CHRED |
| | INCIN | INCIN |
| | STABL | |
| D003 Water Reactives based on 261.23(a) (2), (3), and (4) | INCIN | n.a. |
| | WTRRX | |
| | CHOXD | |
| | CHRED | |
| D003 Reactive Sulfides based on 261.23(a)(5) | CHOXD | CHOXD |
| | CHRED | CHRED |
| | INCIN | BIODG |
| | STABL | INCIN |
| D003 Explosives based on 261.23(a) (6), (7), and (8) | INCIN | INCIN |
| | CHOXD | CHOXD |
| | CHRED | CHRED |
| | | BIODG |
| | | CARBN |

| | | |
|---|---|---|
| D003 Other Reactives based on 261.23(a)(1) | INCIN | INCIN |
| | CHOXD | CHOXD |
| | CHRED | CHRED |
| | | BIODG |
| | | CARBN |
| K044 Wastewater treatment sludges from the manufacturing and processing of explosives | CHOXD | CHOXD |
| | CHRED | CHRED |
| | INCIN | BIODG |
| | | CARBN |
| | | INCIN |
| K045 Spent carbon from the treatment of wastewaters containing explosives | CHOXD | CHOXD |
| | CHRED | CHRED |
| | INCIN | BIODG |
| | | CARBN |
| | | INCIN |
| K047 Pink/red water from TNT operations | CHOXD | CHOXD |
| | CHRED | CHRED |
| | INCIN | BIODG |
| | | CARBN |
| | | INCIN |

Note: "n.a." stands for "not applicable"; "fb." stands for "followed by".

[55 FR 22714, June 1, 1990, as amended at 62 FR 26025, May 12, 1997]

[62 FR 26025, May 12, 1997, as amended at 63 FR 28751, May 26, 1998]

EFFECTIVE DATE NOTE: At 63 FR 28751, May 26, 1998, Appendix VII to part 268 was amended in Table 1 by removing the entries for waste code F033; revising the second entry for waste code F032, the second entry for F034, the first entry for K088, the entries for D003–D011, adding two entries for waste code F035; and in Table 2 by revising entry number 9 and adding entries 12 and 13, effective Aug. 24, 1998. For the convenience of the user, the superseded text is set forth as follows:

## APPENDIX VII TO PART 268—LDR EFFECTIVE DATES OF SURFACE DISPOSED PROHIBITED HAZARDOUS WASTES

### TABLE 1—EFFECTIVE DATES OF SURFACE DISPOSED WASTES (NON-SOIL AND DEBRIS) REGULATED IN THE LDRS [a]—COMPREHENSIVE LIST

| Waste code | Waste category | Effective date |
|---|---|---|
| D003 [c] | All | July 8, 1996. |
| D004 | Nonwastewater | May 8, 1992. |
| D004 | Wastewater | Aug. 8, 1992. |
| D005 | All | Aug. 8, 1990. |
| D006 | All | Aug. 8, 1990. |
| D007 | All | Aug. 8, 1990. |
| D008 | Lead materials before secondary smelting | May 8, 1992. |
| D008 | All others | Aug. 8, 1990. |
| D009 | Nonwastewater | May 8, 1992. |
| D009 | All others | Aug. 8, 1990. |
| D010 | All | Aug. 8, 1990. |
| D011 | All | Aug. 8, 1990. |
| F032 | All others | May 12, 1997 |
| F034 | All others | May 12, 1997 |
| K088 | Mixed with radioactive wastes | Apr. 8, 1998 |

* * * * *

### TABLE 2—SUMMARY OF EFFECTIVE DATES OF LAND DISPOSAL RESTRICTIONS FOR CONTAMINATED SOIL AND DEBRIS (CSD)

| Restricted hazardous waste in CSD | Effective date |
|---|---|
| 9. Soil and debris contaminated with K088 wastes | Jan. 8, 1997. |

* * * * *

## APPENDIX VIII TO PART 268—LDR EFFECTIVE DATES OF INJECTED PROHIBITED HAZARDOUS WASTES

### NATIONAL CAPACITY LDR VARIANCES FOR UIC WASTES [a]

| Waste code | Waste category | Effective date |
|---|---|---|
| F001–F005 | All spent F001–F005 solvent containing less than 1 percent total F001–F005 solvent constituents. | Aug. 8, 1990. |
| D001 (except High TOC Ignitable Liquids Subcategory)[c]. | All | Feb. 10, 1994. |
| D001 (High TOC Ignitable Characteristic Liquids Subcategory). | Nonwastewater | Sept. 19, 1995. |
| D002[b] | All | May 8, 1992. |
| D002[c] | All | Feb. 10, 1994. |
| D003 (cyanides) | All | May 8, 1992. |
| D003 (sulfides) | All | May 8, 1992. |
| D003 (explosives, reactives) | All | May 8, 1992. |
| D007 | All | May 8, 1992. |
| D009 | Nonwastewater | May 8, 1992. |
| D012 | All | Sept. 19, 1995. |
| D013 | All | Sept. 19, 1995. |
| D014 | All | Sept. 19, 1995. |
| D015 | All | Sept. 19, 1995. |
| D016 | All | Sept. 19, 1995. |

NATIONAL CAPACITY LDR VARIANCES FOR UIC WASTES [a]—Continued

| Waste code | Waste category | Effective date |
|---|---|---|
| D017 | All | Sept. 19, 1995. |
| D018 | All, including mixed with radioactive wastes | Apr. 8, 1998. |
| D019 | All, including mixed with radioactive wastes | Apr. 8, 1998. |
| D020 | All, including mixed with radioactive wastes | Apr. 8, 1998. |
| D021 | All, including mixed with radioactive wastes | Apr. 8, 1998. |
| D022 | All, including mixed with radioactive wastes | Apr. 8, 1998. |
| D023 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D024 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D025 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D026 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D027 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D028 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D029 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D030 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D031 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D032 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D033 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D034 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D035 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D036 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D037 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D038 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D039 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D040 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D041 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D042 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| D043 | All, including mixed radioactive wastes | Apr. 8, 1998. |
| F007 | All | June 8, 1991. |
| F032 | All, including mixed radioactive wastes | May 12, 1999. |
| F034 | All, including mixed radioactive wastes | May 12,1999. |
| F035 | All, including mixed radioactive wastes | May 12, 1999. |
| F037 | All | Nov. 8, 1992. |
| F038 | All | Nov. 8, 1992. |
| F039 | Wastewater | May 8, 1992. |
| K009 | Wastewater | June 8, 1991. |
| K011 | Nonwastewater | June 8, 1991. |
| K011 | Wastewater | May 8, 1992. |
| K011 | Nonwastewater | June 8, 1991. |
| K011 | Wastewater | May 8, 1992. |
| K013 | Nonwastewater | June 8, 1991. |
| K013 | Wastewater | May 8, 1992. |
| K014 | All | May 8, 1992. |
| K016 (dilute) | All | June 8, 1991. |
| K049 | All | Aug. 8, 1990. |
| K050 | All | Aug. 8, 1990. |
| K051 | All | Aug. 8, 1990. |
| K052 | All | Aug. 8, 1990. |
| K062 | All | Aug. 8, 1990. |
| K071 | All | Aug. 8, 1990. |
| K088 | All | Jan. 8, 1997. |
| K104 | All | Aug. 8, 1990. |
| K107 | All | Nov. 8, 1992. |
| K108 | All | Nov. 9, 1992. |
| K109 | All | Nov. 9, 1992. |
| K110 | All | Nov. 9, 1992. |
| K111 | All | Nov. 9, 1992. |
| K112 | All | Nov. 9, 1992. |
| K117 | All | June 30, 1995. |
| K118 | All | June 30, 1995. |
| K123 | All | Nov. 9, 1992. |
| K124 | All | Nov. 9, 1992. |
| K125 | All | Nov. 9, 1992. |
| K126 | All | Nov. 9, 1992. |
| K131 | All | June 30, 1995. |
| K132 | All | June 30, 1995. |
| K136 | All | Nov. 9, 1992. |
| K141 | All | Dec. 19, 1994. |
| K142 | All | Dec. 19, 1994. |
| K143 | All | Dec. 19, 1994. |
| K144 | All | Dec. 19, 1994. |
| K145 | All | Dec. 19, 1994. |
| K147 | All | Dec. 19, 1994. |

NATIONAL CAPACITY LDR VARIANCES FOR UIC WASTES [a]—Continued

| Waste code | Waste category | Effective date |
|---|---|---|
| K148 | All | Dec. 19, 1994. |
| K149 | All | Dec. 19, 1994. |
| K150 | All | Dec. 19, 1994. |
| K151 | All | Dec. 19, 1994. |
| K156 | All | July 8, 1996. |
| K157 | All | July 8, 1996. |
| K158 | All | July 8, 1996. |
| K159 | All | July 8, 1996. |
| K160 | All | July 8, 1996. |
| K161 | All | July 8, 1996. |
| NA | Newly identified mineral processing wastes from titanium dioxide production and mixed radioactive/newly identified D004–D011 characteristic wastes and mineral processing wastes.. | May 26, 2000. |
| P127 | All | July 8, 1996. |
| P128 | All | July 8, 1996. |
| P185 | All | July 8, 1996. |
| P188 | All | July 8, 1996. |
| P189 | All | July 8, 1996. |
| P190 | All | July 8, 1996. |
| P191 | All | July 8, 1996. |
| P192 | All | July 8, 1996. |
| P194 | All | July 8, 1996. |
| P196 | All | July 8, 1996. |
| P197 | All | July 8, 1996. |
| P198 | All | July 8, 1996. |
| P199 | All | July 8, 1996. |
| P201 | All | July 8, 1996. |
| P202 | All | July 8, 1996. |
| P203 | All | July 8, 1996. |
| P204 | All | July 8, 1996. |
| P205 | All | July 8, 1996. |
| U271 | All | July 8, 1996. |
| U277 | All | July 8, 1996. |
| U278 | All | July 8, 1996. |
| U279 | All | July 8, 1996. |
| U280 | All | July 8, 1996. |
| U328 | All | Nov. 9, 1992. |
| U353 | All | Nov. 9, 1992. |
| U359 | All | Nov. 9, 1992. |
| U364 | All | July 8, 1996. |
| U365 | All | July 8, 1996. |
| U366 | All | July 8, 1996. |
| U367 | All | July 8, 1996. |
| U372 | All | July 8, 1996. |
| U373 | All | July 8, 1996. |
| U375 | All | July 8, 1996. |
| U376 | All | July 8, 1996. |
| U377 | All | July 8, 1996. |
| U378 | All | July 8, 1996. |
| U379 | All | July 8, 1996. |
| U381 | All | July 8, 1996. |
| U382 | All | July 8, 1996. |
| U383 | All | July 8, 1996. |
| U384 | All | July 8, 1996. |
| U385 | All | July 8, 1996. |
| U386 | All | July 8, 1996. |
| U387 | All | July 8, 1996. |
| U389 | All | July 8, 1996. |
| U390 | All | July 8, 1996. |
| U391 | All | July 8, 1996. |
| U392 | All | July 8, 1996. |
| U395 | All | July 8, 1996. |
| U396 | All | July 8, 1996. |
| U400 | All | July 8, 1996. |
| U401 | All | July 8, 1996. |
| U402 | All | July 8, 1996. |
| U403 | All | July 8, 1996. |
| U404 | All | July 8, 1996. |
| U407 | All | July 8, 1996. |
| U409 | All | July 8, 1996. |
| U410 | All | July 8, 1996. |

NATIONAL CAPACITY LDR VARIANCES FOR UIC WASTES [a]—Continued

| Waste code | Waste category | Effective date |
|---|---|---|
| U411 | All | July 8, 1996. |

[a] Wastes that are deep well disposed on-site receive a six-month variance, with restrictions effective in November 1990.
[b] Deepwell injected D002 liquids with a pH less than 2 must meet the California List treatment standards on August 8, 1990.
[c] Managed in systems defined in 40 CFR 144.6(e) and 14.6(e) as Class V injection wells, that do not engage in CWA-equivalent treatment before injection.
NOTE: This table is provided for the convenience of the reader.

[62 FR 26037, May 12, 1997, as amended at 63 FR 28752, May 26, 1998]

EFFECTIVE DATE NOTE: At 63 FR 28752, May 26, 1998, Appendix VIII to part 268 was amended by adding in alpha numeric order the entry ''NA'', effective Aug. 24, 1998.

## APPENDIX IX TO PART 268—EXTRACTION PROCEDURE (EP) TOXICITY TEST METHOD AND STRUCTURAL INTEGRITY TEST (METHOD 1310)

NOTE: The EP (Method 1310) is published in ''Test Methods for Evaluating Solid Waste, Physical/Chemical Methods,'' EPA Publication SW-846, as incorporated by reference in §260.11 of this chapter.

[58 FR 46051, Aug. 31, 1993]

## APPENDIX X TO PART 268 [RESERVED]

## APPENDIX XI TO PART 268—METAL BEARING WASTES PROHIBITED FROM DILUTION IN A COMBUSTION UNIT ACCORDING TO 40 CFR 268.3(C) [1]

| Waste code | Waste description |
|---|---|
| D004 | Toxicity Characteristic for Arsenic. |
| D005 | Toxicity Characteristic for Barium. |
| D006 | Toxicity Characteristic for Cadmium. |
| D007 | Toxicity Characteristic for Chromium. |
| D008 | Toxicity Characteristic for Lead. |
| D009 | Toxicity Characteristic for Mercury. |
| D010 | Toxicity Characteristic for Selenium. |
| D011 | Toxicity Characteristic for Silver. |
| F006 | Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-plating on carbon steel; (5) cleaning/stripping associated with tin, zinc and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum. |
| F007 | Spent cyanide plating bath solutions from electroplating operations. |
| F008 | Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process. |
| F009 | Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process. |
| F010 | Quenching bath residues from oil baths from metal treating operations where cyanides are used in the process. |
| F011 | Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations. |
| F012 | Quenching waste water treatment sludges from metal heat treating operations where cyanides are used in the process. |
| F019 | Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum car washing when such phosphating is an exclusive conversion coating process. |
| K002 | Wastewater treatment sludge from the production of chrome yellow and orange pigments. |
| K003 | Wastewater treatment sludge from the production of molybdate orange pigments. |
| K004 | Wastewater treatment sludge from the production of zinc yellow pigments. |
| K005 | Wastewater treatment sludge from the production of chrome green pigments. |
| K006 | Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated). |
| K007 | Wastewater treatment sludge from the production of iron blue pigments. |
| K008 | Oven residue from the production of chrome oxide green pigments. |
| K061 | Emission control dust/sludge from the primary production of steel in electric furnaces. |
| K069 | Emission control dust/sludge from secondary lead smelting. |
| K071 | Brine purification muds from the mercury cell processes in chlorine production, where separately prepurified brine is not used. |
| K100 | Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting. |