

1 Pollution Control Agency

2

3 Adopted Permanent Rules Relating to Wood Preserving Operation
4 Wastes

5

6 Rules as Adopted

7 7001.0623 [Withdrawn at 16 SR 2442.]

8 7045.0020 [Withdrawn at 16 SR 2442.]

9 7045.0120 EXEMPT WASTES.

10 The following wastes may be stored, labeled, transported,
11 treated, processed, and disposed of without complying with the
12 requirements of this chapter:

13 [For text of items A to O, see M.R.]

14 P. secondary materials that are reclaimed and
15 returned to the original process or processes in which they were
16 generated where they are reused in the production process
17 provided that:

18 [For text of subitems (1) to (3), see M.R.]

19 (4) the reclaimed material is not used to produce
20 a fuel, or used to produce products that are used in a manner
21 constituting disposal;

22 Q. petroleum-contaminated media and debris that fail
23 the test for the toxicity characteristic in part 7045.0131,
24 subpart 7 (hazardous waste codes D018 to D043 only), and are
25 subject to corrective action regulations under chapter 7150;

26 R. spent wood preserving solutions that have been
27 reclaimed and reused for their original intended purpose, and
28 wastewaters from the wood preserving process that have been
29 reclaimed and are reused to treat wood; or

30 S. used chlorofluorocarbon refrigerants from totally
31 enclosed heat transfer equipment, including mobile air
32 conditioning systems, mobile refrigeration, and commercial and
33 industrial air conditioning and refrigeration systems that use
34 chlorofluorocarbons as the heat transfer fluid in a

1 refrigeration cycle, provided the refrigerant is reclaimed for
2 further use.

3 7045.0135 LISTS OF HAZARDOUS WASTES.

4 [For text of subpart 1, see M.R.]

5 Subp. 2. Hazardous wastes from nonspecific sources.

6 Hazardous wastes from nonspecific sources are listed with the
7 generic hazardous waste number and hazard code in items A to Y.

8 [For text of items A to T, see M.R.]

9 U. F027, discarded unused formulations containing
10 tri-, tetra-, or pentachlorophenol or discarded unused
11 formulations containing compounds derived from these
12 chlorophenols. This listing does not include formulations
13 containing hexachlorophene synthesized from prepurified
14 2,4,5-trichlorophenol as the sole component: (H);

15 V. F028, residues resulting from the incineration or
16 thermal treatment of soil contaminated with hazardous waste Nos.
17 F020, F021, F022, F023, F026, and F027: (T);

18 W. F032, wastewaters, process residuals, preservative
19 drippage, and spent formulations from wood preserving processes
20 generated at plants that currently use or have previously used
21 chlorophenolic formulations, except potentially
22 cross-contaminated wastes that have had the F032 waste code
23 deleted in accordance with part 7045.0145 and where the
24 generator does not resume or initiate use of chlorophenolic
25 formulations. This listing does not include K001 bottom
26 sediment sludge from the treatment of wastewater from wood
27 preserving processes that use creosote and/or
28 pentachlorophenol. This listing does not include wastewaters
29 which have not come into contact with process contaminants.
30 This listing does not include wastes from plants which have
31 previously used chlorophenolic formulations and are included in
32 the F034 or F035 listings: (T);

33 X. F034, wastewaters, process residuals, preservative
34 drippage, and spent formulations from wood preserving processes
35 generated at plants that use creosote formulations. This

1 listing does not include K001 bottom sediment sludge from the
2 treatment of wastewater from wood preserving processes that use
3 creosote and/or pentachlorophenol. This listing does not
4 include wastewaters which have not come into contact with
5 process contaminants: (T); and

6 Y. F035, wastewaters, process residuals, preservative
7 drippage, and spent formulations from wood preserving processes
8 generated at plants that use inorganic preservatives containing
9 arsenic or chromium. This listing does not include K001 bottom
10 sediment sludge from the treatment of wastewater from wood
11 preserving processes that use creosote and/or
12 pentachlorophenol. This listing does not apply to wastewaters
13 which have not come into contact with process contaminants: (T).

14 [For text of subps 3 to 5, see M.R.]

15 7045.0139 BASIS FOR LISTING HAZARDOUS WASTES.

16 [For text of subpart 1, see M.R.]

17 Subp. 2. **Constituents.** The constituents which are the
18 basis for listing the wastes identified in part 7045.0135,
19 subparts 2 and 3 are listed in items A and B.

20 A. Constituents of wastes identified in part
21 7045.0135, subpart 2, are listed in subitems (1) to (25).

22 [For text of subitems (1) to (20), see M.R.]

23 (21) F027: Tetra-, penta-, and
24 hexachlorodibenzo-p-dioxins; tetra-, penta-, and
25 hexachlorodibenzofurans; tri-, tetra-, and pentachlorophenols
26 and their chlorophenoxy derivative acids, esters, ethers, amine,
27 and other salts;

28 (22) F028: Tetra-, penta-, and
29 hexachlorodibenzo-p-dioxins; tetra-, penta-, and
30 hexachlorodibenzofurans; tri-, tetra-, and pentachlorophenols
31 and their chlorophenoxy derivative acids, esters, ethers, amine,
32 and other salts;

33 (23) F032: Benz(a)anthracene; benzo(a)pyrene;
34 dibenz(a,h)-anthracene; indeno(1,2,3-cd)pyrene;
35 pentachlorophenol; arsenic; chromium; tetra-, penta-, hexa-,

1 heptachlorodibenzo-p-dioxins; tetra-, penta-, hexa-,
2 heptachlorodibenzofurans;

3 (24) F034: Benz(a)anthracene;
4 benzo(k)fluoranthene; benzo(a)pyrene; dibenz(a,h)anthracene;
5 indeno(1,2,3-cd)pyrene; naphthalene; arsenic; chromium; and

6 (25) F035: Arsenic; chromium; lead.

7 [For text of item B, see M.R.]

8 7045.0141 HAZARDOUS CONSTITUENTS.

9 [For text of subps 1 and 2, see M.R.]

10 Subp. 3. "B" constituents. Hazardous constituents
11 beginning with the letter B are as follows:

12 [For text of items A to K, see M.R.]

13 L. Benzo(k)fluoranthene, 207-08-9, ____;
14 M. Benzo[a]pyrene, 50-32-8, U022;
15 N. p-Benzoquinone, 106-51-4, U197;
16 O. Benzotrichloride, 98-07-7, U023;
17 P. Benzyl chloride, 100-44-7, P028;
18 Q. Beryllium, 7440-41-7, P015;
19 R. Beryllium compounds, not otherwise specified in
20 this list, _____, ____;

21 S. Bromoacetone, 598-31-2, P017;

22 T. Bromoform, 75-25-2, U225;

23 U. 4-Bromophenyl phenyl ether, 101-55-3, U030;

24 V. Brucine, 357-57-3, P018; and

25 W. Butyl benzyl phthalate, 85-68-7, ____.

26 [For text of subps 4 to 8, see M.R.]

27 Subp. 9. "H" constituents. Hazardous constituents
28 beginning with the letter H are as follows:

29 [For text of items A to D, see M.R.]

30 E. Heptachlorodibenzofurans, _____, ____;

31 F. Heptachlorodibenzo-p-dioxins, _____, ____;

32 G. Hexachlorobenzene, 118-74-1, U127;

33 H. Hexachlorobutadiene, 87-68-3, U128;

34 I. Hexachlorocyclopentadiene, 77-47-4, U130;

35 J. Hexachlorodibenzo-p-dioxins, _____, ____;

- 1 K. Hexachlorodibenzofurans, _____, ____;
- 2 L. Hexachloroethane, 67-72-1, U131;
- 3 M. Hexachlorophene, 70-30-4, U132;
- 4 N. Hexachloropropene, 1888-71-7, U243;
- 5 O. Hexaethyltetraphosphate, 757-58-4, P062;
- 6 P. Hydrazine, 302-01-2, U133;
- 7 Q. Hydrogen cyanide, 74-90-8, P063;
- 8 R. Hydrogen fluoride, 7664-39-3, U134; and
- 9 S. Hydrogen sulfide, 7783-06-4, U135.

10 [For text of subps 10 to 23, see M.R.]

11 7045.0145 DELETION OF CERTAIN HAZARDOUS WASTE CODES FOLLOWING
12 EQUIPMENT CLEANING AND REPLACEMENT AT WOOD PRESERVING PLANTS.

13 Subpart 1. **Scope.** Wastes from wood preserving processes
14 at plants that do not resume or initiate use of chlorophenolic
15 preservatives will not meet the listing definition of F032 once
16 the generator has met all of the requirements of subparts 2 and
17 3. These wastes may, however, continue to meet another
18 hazardous waste listing description or may exhibit one or more
19 of the characteristics of hazardous waste.

20 Subp. 2. **Process equipment cleaning and replacement.**

21 Generators must either clean or replace all process equipment
22 that may have come into contact with chlorophenolic formulations
23 or constituents thereof, including, but not limited to,
24 treatment cylinders, sumps, tanks, piping systems, drip pads,
25 fork lifts, and trams. Cleaning and replacement of process
26 equipment must be performed in a manner which minimizes or
27 eliminates the escape of hazardous waste or waste constituents,
28 leachate, contaminated drippage, or hazardous waste
29 decomposition products to the groundwater, surface water, or
30 atmosphere. Generators must either:

31 A. prepare and follow an equipment cleaning plan and
32 clean equipment in accordance with this item by:

33 (1) preparing and signing a written equipment
34 cleaning plan that describes the equipment to be cleaned, how
35 the equipment will be cleaned, the solvent chosen to be used in

1 the cleaning, how solvent rinses will be tested, and how
2 cleaning residues will be disposed;

3 (2) removing all visible residues from process
4 equipment and rinsing process equipment with an appropriate
5 solvent until dioxins and dibenzofurans in the final solvent
6 rinse are found to be at or below the lower method calibration
7 limit (MCL) found in SW-846, Method 8290, Table 1; and

8 (3) managing all residues from the cleaning
9 process as F032 waste;

10 B. prepare and sign a written equipment replacement
11 plan that describes the equipment to be replaced, how the
12 equipment will be replaced, and how the equipment will be
13 disposed of as F032 waste; or

14 C. document that previous equipment cleaning and/or
15 replacement was performed in accordance with this part and
16 occurred after cessation of use of chlorophenolic formulations.

17 Subp. 3. **Record keeping.** The generator must maintain the
18 following records documenting the cleaning and replacement as
19 part of the facility's operating record:

20 A. the name and address of the facility;

21 B. formulations previously used and the date on which
22 their use ceased in each process at the plant;

23 C. formulations currently used in each process at the
24 plant;

25 D. the equipment cleaning or replacement plan;

26 E. the name and address of any persons who conducted
27 the cleaning and replacement;

28 F. the dates on which cleaning and replacement were
29 accomplished;

30 G. the dates of sampling and testing;

31 H. a description of the sample handling and
32 preparation techniques, including techniques used for
33 extraction, containerization, preservation, and chain-of-custody
34 for the samples;

35 I. a description of the tests performed, the dates
36 the tests were performed, and the results of the tests;

1 J. the name and model numbers of the instruments used
2 in performing the tests;

3 K. quality assurance/quality control (QA/QC)
4 documentation; and

5 L. the following statement signed by the generator or
6 the generator's authorized representative: "I certify under
7 penalty of law that all process equipment required to be cleaned
8 or replaced under Minnesota Rules, part 7045.0145, was cleaned
9 or replaced as represented in the equipment cleaning and
10 replacement plan and accompanying documentation. I am aware
11 that there are significant penalties for providing false
12 information, including the possibility of fine or imprisonment."

13 7045.0292 [Withdrawn at 16 SR 2442.]

14 7045.0528 [Withdrawn at 16 SR 2442.]

15 7045.0546 [Withdrawn at 16 SR 2442.]

16 7045.0628 [Withdrawn at 16 SR 2442.]

17 7045.0644 [Withdrawn at 16 SR 2442.]

18 ~~INSTRUCTION TO REVISOR:--The references to parts 7045.0450 to~~
19 ~~7045.0544 and 7045.0552 to 7045.0642 shall be changed to~~
20 ~~7045.0450 to 7045.0546 and 7045.0552 to 7045.0644 wherever they~~
21 ~~appear in Minnesota Rules.~~