US ERA ARCHIVE DOCUMENT

STATE OF DELAWARE

REGULATIONS GOVERNING HAZARDOUS WASTE



DIVISION OF ENVIRONMENTAL CONTROL
DEPARTMENT OF NATURAL RESOURCES AND
ENVIRONMENTAL CONTROL

JULY 28, 1983

DELAWARE REGULATIONS GOVERNING HAZARDOUS WASTE

These regulations are effective since July 28, 1983, except for the manifest, continuation forms and the related regulations. Final action on these forms will be taken after the Environmental Protection Agency has promulgated the National Uniform Manifest. In the meantime, only for the manifest and the associated regulations, the Delaware Hazardous Waste Regulations as adopted November 19, 1980, and amended September 24, 1982, will continue to be effective.

Part 260-HAZARDOUS WASTE MANAGEMENT SYSTEM: GENERAL

Subpart A-General

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Subpart A-General

§260.1 Purpose, scope, and applica bility.

- (a) This part provides definitions of terms, general standards, and overview information applicable to Parts 260 through 265 of these Regulations.
- (b) In this part: (1) Section 260.2 sets forth the rules that DNREC will use in making information it receives available to the public and sets forth the requirements that generators, transporters, or owners or operators of treatment, storage, or disposal facilities must follow to assert claims οf business with confidentiality respect information that is submitted to DNREC under Parts 260 through 265 of these Regulations.
- (2) Section §260.3 establishes rules of grammatical construction for Parts 260 through 265 of these Regulations.
- (3) Section §260.10 defines terms which are used in Parts 260 through 265 of these Regulations.

§260.2 Availability of information; confidentiality of information.

- (a) Any information provided to DNREC under Parts 260 through 265 of these Regulations will be made available to the public to the extent and in the manner authorized by 29 Del. C. Chapter 100 and 7 Del. C. §6304 and DNREC regulations implementing 29 Del. C. Chapter 100 and 7 Del. C. §6304.
- (b) Any person who submits informa tion to DNREC in accordance with Parts 260 through 265 of these Regulations assert a claim of business confiden tiality covering part or all of that information by following the proce dures set forth in 7 Del. C. §6304(c). Information covered by such a claim will be disclosed by DNREC only to the extent, and by means of the procedures, set forth in 7. Del. C §6304(c). However, if no such claim accompanies the information when it is received by DNREC, it may be made available to the public without further notice to the person submitting it.

§260.3 Use of number and gender.

As used in Parts 260 through 265 of these Regulations.

- (a) Words in the masculine gender also include the feminine and neuter genders; and
- (b) Words in the singular include the plural; and
- (c) Words in the plural include the singular.

Subpart B-Definitions

§260.10 Definitions.

When used in Parts 260 through 265 of these Regulations, the following terms have the meanings given below:

"Act" or "RCRA" means the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976, as amended, 42 U.S.C. section 6901 et seq.

Active portion means that portion of a facility where treatment, storage, or disposal operations are being or have been conducted after the effective date of Part 261 of these Regulations and which is not a closed portion. (See also "closed portion" and inactive portion".)

"Activity" means construction, operation, or use of any facility, site, property or device.

"Administrator" means the Administrator of the Environmental Protection

Agency, or his designee.

"Aquifer" means a geologic formation, group of formations, or part of a formation capable of yielding a significant amount of ground water to wells or springs.

"Authorized representative" means the person responsible for the overall operation of a facility or an operational unit (i.e., part of a facility), e.g., the plant manager, superintendent or person of equivalent responsibility.

"Certification" means a statement of professional opinion based upon knowledge and belief.

"CFR" means Code of Federal Regulations. "Commission" means the Commission on the Transportation of Hazardous Materials.

"Closed portion" means that portion of a facility which an owner or opera tor has closed in accordance with the approved facility closure plan and all applicable closure requirements. (See also "active portion" and "inactive portion".)

"Commission" means the Commission on the Transportation of Hazardous Materials.

"Confined aquifer" means an aquifer bounded above and below by impermeable beds or by beds of distinctly lower permeability than that of the aquifer itself; an aquifer containing confined ground water.

"Container" means any portable device in which a material is stored, transported, treated, disposed of, or otherwise handled.

"Contingency plan" means a document setting out an organized, planned, and coordinated course of action to be followed in case of a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment.

"Department" means the Department of Natural Resources and Environmental Control of the State of Delaware.

"Designated facility" means a hazardous waste treatment, storage, or disposal facility which has received an DNREC permit (or a facility with interim status) in accordance with the requirements of Parts 122 and 124 of these Regulations, or a permit from a State authorized in accordance with 40 CFR Part 271 of these Regulations, that has been designated on the manifest by the generator pursuant to §262.20.

"Dike" means an embankment or ridge of either natural or man-made materials used to prevent the movement of liquids, sludges, solids, or other materials.

"Discharge" or "hazardous waste discharge" means the accidental or intentional spilling, leaking, pumping, puring, emitting, emptying, or dumping of hazardous waste into or on any land or water.

"Disposal" means the discharge, deposit, injection, dumping, spilling, leaking, or placing of any solid waste or hazardous waste into or on any land or water so that such solid waste or hazardous waste or any constituent thereof may enter the environment or be emitted into the air or discharged into any waters, including ground waters.

"Disposal facility" means a facility or part of a facility at which hazardous waste is intentionally placed into or on any land or water, and at which waste will remain after closure.

"Division" means the Division of Environmental Control.

"DNREC hazardous waste number" means the number assigned by DNREC to each hazardous waste listed in Part 261, Subpart D, of these Regulations and to each characteristic identified in Part 261, Subpart C, of these Regulations.

"EPA identification number" means the number assigned by DNREC to each generator, transporter, and treatment, storage, or disposal facility.

"EPA region" means the states and territories found in any one of the following ten regions:

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Region I-Maine, Vermont, New Hampshire, Massachusetts, Connecticut, and Rhode Island.

Region II-New York, New Jersey, Commonwealth of Puerto Rico, and the U. S. Virgin Islands.

Region III-Pennsylvania, Delaware, Maryland, West Virginia, Virginia, and the District of Columbia.

Region IV-Kentucky, Tennessee, North Carolina, Mississippi, Alabama, Georgia, South Carolina, and Florida.

Region V-Minnesota, Wisconsin,
Illinois, Michigan, Indiana and
Ohio.

Region VI-New Mexico, Oklahoma, Arkansas, Louisiana, and Texas. Region VII-Nebraska, Kansas, Missouri,

Region VII-Nebraska, Kansas, Missouri, and Iowa.

Region VIII-Montana, Wyoming, North Dakota, South Dakota, Utah, and Colorado.

Region IX-California, Nevada, Arizona, Hawaii, Guam, American Samoa, Commonwealth of the Northern Mariana Islands.

Region X-Washington, Oregon, Idaho, and Alaska.

"Elementary neutralization unit" means a device which:

(1) Is used for neutralizing wastes which are hazardous wastes only because they exhibit the corrosivity characteristic defined in §261.22 of these Regulations, or are listed in Subpart D of Part 261 of these Regulations only for this reason; and

(2) Meets the definition of tank, container, transport vehicle or vessel in §260.10 of these Regulations.

"Engineer" means an engineer registered and authorized to practice in Delaware as a Professional Engineer by the "Delaware Association of Professional Engineers".

"Equivalent method" means any testing or analytical method approved by the Secretary under Part 260 Subpart C of these Regulations.

"Existing hazardous waste manage ment (HWM) facility" or "existing facility" means a facility which was in operation or for which construction commenced on or before November 19, 1980. A facility has commenced construction if:

(1) The owner or operator has obtained the Federal, State and local approvals or permits necessary to begin physical construction; and either

(2)(i) A continuous on-site, physical construction program has begun; or

(ii) The owner or operator into has entered contractual which obligations cannot modified cancelled or without substantial loss - for construction of the facility to be completed within a reasonable time. Within this definition, "Federal, State and local approvals or permits necessary to begin physical construction" means permits approvals required under Federal, State or local hazardous waste control statutes, regulations or ordinances.

"Existing Portion" means that land surface area of an existing waste management unit included in the original Part A application, on which wastes have been placed prior to the issuance of a permit.

"Facility or Hazardous Waste Management (HWM) Facility" means all contiguous land, and structures, other appurtenances, and improvements on the land, used for treating, storing, or disposing of hazardous waste. A facility may consist of several treat ment, storage, or disposal operational units (e.g., one or more landfills, surface impoundments, or combination of them).

"Federal agency" means any depart ment, agency, or other instrumentality of the Federal Government, any independent agency or establishment of the Federal Government including any Government corporation, and the Government Printing Office.

"Federal, State and local approvals or permits necessary to begin physical construction" means permits and approvals required under Federal, State or local hazardous waste control statutes, regulations or ordinances.

"Food-chain crops" means tobacco, crops grown for human consumption, and crops grown for feed for animals whose products are consumed by humans.

"Freeboard" means the vertical distance between the top of a tank or surface impoundment dike, and the surface of the waste contained therein.

"Free liquids" means liquids which readily separate from the solid portion of a waste under ambient temperature and pressure.

"Generator" means any person, by site, whose act or process produces hazardous waste identified or listed in Part 261 of these Regulations or whose act first causes a hazardous waste to become subject to regulation.

"Geologist" means a geologist registered by the "Delaware State Board of Registration of Geologists."

"Ground water" means water below the land surface in a zone of saturation.

"Hazardous waste" means a hazardous waste as defined in §261.3 of these Regulations.

"Hazardous Waste Constituent"—means a constituent which caused the Secretary to list the hazardous waste in Part 261, Subpart D of these regulations, or a constituent listed in Table 1 of §261.24 of these Regulations.

"Inactive portion" means that portion of a facility which is not operated after the effective date of Part 261 of these Regulations. (See also "active portion" and "closed portion".)

"Incinerator" means an enclosed controlled using flame combustion, the primary purpose of which is to thermally break down Examples of hazardous waste. are rotary incinerators fluidized bed, and liquid injection incinerators.

"Incompatible waste" means a hazardous waste which is unsuitable for:

(1) Placement in a particular device or facility because it may cause corrosion or decay of containment materials

(e.g., container inner liners or tank walls); or

(2)Commingling with another waste or material under uncontrolled conditions because the commingling might produce heat or pressure, fire or explosion, violent reaction, toxic dusts, mists, fumes, or gases, or flammable fumes or gases.

(See Part 265, Appendix V, of these Regulations for examples.)

"Individual generation site" means the contiguous site at or on which one or more hazardous wastes are generated. An individual generation site, such as a large manufacturing plant, may have one or more sources of hazardous waste but is considered a single or individual generation site if the site or property is contiguous.

"In operation" refers to a facility which is treating, storing, or disposing of hazardous waste.

"Injection well" means a well into which fluids are injected. (See also "underground injection".)

"Inner liner" means a continuous layer of material placed inside a tank or container which protects the construction materials of the tank or container from the contained waste or reagents used to treat the waste.

"International shipment" means the transportation of hazardous waste into or out of the jurisdiction of the United States.

"Landfill" means a disposal facility or part of a facility where hazardous waste is placed in or on land and which is not a land treatment facility, a surface impoundment, or an injection well.

"Landfill cell" means a discrete volume of a hazardous waste landfill which uses a liner to provide isolation of wastes from adjacent cells or wastes. Examples of landfill cells are trenches and pits.

"Land treatment facility" means a facility or part of a facility at which hazardous waste is applied onto or

biological character or composition of the hazardous waste. Examples of thermal treatment processes are incineration, molten salt, pyrolysis, calcination, wet air oxidation, and microwave discharge. (See also "incinerator" and "open burning".)

"Totally enclosed treatment facility" means a facility for the treatment of hazardous waste which is directly connected to an industrial preduction process and which constructed and operated in a manner which prevents the release of hazardous waste or any constituent thereof into the environment during An example is a pipe in treatment. which waste acid is neutralized.

"Transfer facility" means related transportation facility docks, loading including parking storage areas and similar areas where shipments of hazardous waste are held during the normal course of transportation.

"Transportation" means the movement of hazardous waste by air, rail, highway, or water.

"Transporter" means a person engaged in the offsite transportation of hazardous waste by air, rail, highway, or water.

"Transport vehicle" means a motor vehicle or rail car used for the transportation of cargo by any mode. Each cargo-carrying body (trailer, railroad freight car, etc.) is a separate transport vehicle.

"Treatment" means any method, including or process, neutralization, designed to change the physical, chemical, or biological or composition of hazardous waste so as to neutralize such waste, or so as to recover energy or material resources from the waste, to render such so as non-hazardous, or less hazardous; safer to transport, store, or dispose of; or amenable for recovery, amenable for storage, or reduced in volume.

"Treatment Zone" means a soil area of the unsaturated zone of a land treatment unit within which hazardous constituents are degraded, transformed, or immobilized.

"Underground injection" means the subsurface emplacement of fluids through a bored, drilled or driven well; or through a dug well, where the depth of the dug well is greater than the largest surface dimension. (See also "injection well".)

"Unsaturated zone" or "zone of aeration" means the zone between the land surface and the water table.

"United States" means the 50 States, the District of Columbia, the Commonwealth of Puerto Rico, the U. S. Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Mariana Islands.

"Uppermost Aquifer" means the geologic formation nearest the natural ground surface that is an aquifer, as well as lower aquifers that are hydraulically interconnected with this aquifer, within the facility's property boundary.

"Vessel" includes every description of watercraft, used or capable of being used as a means of transportation on the water.

"Wastewater treatment unit" means a device which:

- (1) Is part of a wastewater treatment facility which is subject to regulations under either Section 402 or Section 307(b) of the Clean Water Act; and
- (2) Receives and treats or stores an influent wastewater which is a hazardous waste defined in §261.3 these Regulations, or and generates accumu lates wastewater а treatment sludge which is a hazardous waste as defined §261.3 of these Regulations, or treats or stores a wastewater treatment sludge which is a hazardous waste as §261.3 of defined in these Regulations.
- (3) Meets the definition of tank in §260.10 of these Regulations.

"Water (bulk shipment)" means the bulk transportation of hazardous waste which is loaded or carried on board a vessel without containers or labels.

"Well" means any shaft or pit dug or bored into the earth, generally of a cylindrical form, and often walled with bricks or tubing to prevent the earth from caving in.

"Well injection": (See "underground injection".)

§260.11 References

(a) When used in Parts 260 through 265 of these Regulations, the following publications are incorporated by reference:

"ASTM Standard Test Methods for Flash Point of Liquids by Setaflash Closed Tester," ASTM Standard D-3278-78 available from American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

"ASTM Standard Test Methods for Flash Point by Pensky-Martens Closed Tester."

ASTM Standard D-93-79 or D-93-80. D-93-80 is available from American Society for Testing and Materials, 1916, Race Street, Philadelphia, PA 19103.

"Flammable and Combustible Liquids Code" (1977 or 1981), available from the National Fire Protection Association, 470 Atlantic Avenue, Boston, Massachusetts 02210.

"Test Methods for Evaluating Solid Physical/Chemical Methods. EPA Publication SW-846 (First Edition, 1980, as updated by Revisions A (August, 1980), B (July, 1981), and C (February, 1982) or (Second Edition, 1982). The first edition of SW-846 is longer in print. Revisions A and B are available from EPA, Office of Solid (WH-565B), 401 M Street, S.W., Washington, 20460. Revision C C is available from NTIS, 5285 Port Royal Road, Springfield, Virginia 22161. The second edition of SW-846 includes material from the first edition and Revisions A, B, and C in a reorganized format. It is available from the Superintendent Documents, U.S. Government Printing Office, Washington, D.C. 20402, (202) 783-3238, on a subscription basis, and future updates will automatically be mailed to the subscriber.

(b) The references listed in paragraph (a) of this section are also available inspection at the Office of the Federal Register, 1100 L Street, NW, Washington, D. 20408. These incorporations by reference were approved by the Director of the Federal Register. These materials incorporated as they exist on the date of approval and a notice of any change in these materials will be published in the Federal Register.

Subpart C-Rulemaking Petitions

Where the Administrator of EPA has granted a Rulemaking Petition pursuant to 40 CFR Part 260 §§260.20, 260.21 or 260.22, the Secretary of DNREC, may in his discretion, accept such determina the tion and amend Delaware regulations accordingly, provided that the person whose petition was granted can furnish appropriate evidence of Administrator's action provided further that the Secretary such action to be determines with the policies and consistent of the Hazardous Waste purposes Management Act of 1980 (7 Del. C. Chapter 63).

Subpart D - Public Participation

In furtherance of the policies and purposes of <u>7 Del. C.</u> Chapter 63 and in the interest of providing an opportunity for encouraging public participation in the efforts of the State toward a more effective Mazardous Waste Management Program, DNREC will:

- (A) Investigate and provide written responses to all citizen complaints submitted in accordance with such reporting procedures as the Secretary may establish;
- (B) Not oppose intervention by any citizen where permissive intervention may be authorized by statute, rule, and regulation; and
- (C) Publish and provide at least 30 days for public comment on any proposed settlement of a state enforcement action.

Appendix I. - Overview of Regulations

The Department believes that there are many people who suspect, but are not sure, that their activities are subject to control under the Hazardous Waste regulations. This appendix is written for these people. It is

designed to help those who are unfamiliar with the hazardous waste control program to determine with which, if any, of the regulations they should comply.

Definition of Solid Waste

The first question which such a person should ask himself is: "Is the material I handle a solid waste?" If the answer to this question is "No", then the material is not subject to control under Hazardous Waste Regulations and, therefore, the person need not worry about whether he should comply with these Regulations.

Section 261.2 of these Regulations provides a definition of "solid waste" which expands the statutory definition of that term given in 7 Del. C. Chapter 63. This definition is diagrammed in Figure 1.

Figure 1 explains that materials are either: (1) garbage refuse, or sludge; (2) solid, liquid, semi-solid contained or gaseous material; or (3) something else. materials in the third category are solid waste. All materials in the category first are solid waste. Materials in the second category are solid waste unless they are one of the five exclusions specified in §261.4(a).

Definition of Hazardous Waste

If a person has determined that his material is a "solid waste", the next question he should ask is: Is the solid waste I handle a hazardous waste?

Hazardous waste is defined §261.3 of these Regulations. Section 261.3 provides that, in general, a solid waste is a hazardous waste if: (1) It is, or contains, a hazardous waste listed in Subpart D of Part 261 of these Regulations, or (2) the waste exhibits any of the characteristics defined in Subpart C of Part 261. However, Parts 260 and 261 contain provisions which exclude (§§261.4(b), Part 260 Subpart C) solid certain wastes from the

definition of "hazardous waste", even though they are listed in Subpart D or exhibit one or more of characteristics defined in Subpart C. Figure 2 depicts the interplay of provisions these special with the definition of "hazardous waste". presents a series of questions which a person should ask himself concerning his waste. After doing so, the person should be able to determine if the solid waste he handles is a hazardous waste.

Hazardous Waste Regulations

If this is the case, the person should look at Figure 3. Figure 3 depicts the special provisions specified in the final Part 261 rules for hazardous waste which:

- Is generated by a small quantity generator
- Is or is intended to be legitimately and beneficially used, re-used, recycled, or reclaimed.
- Is a sludge: is listed in Part 261. Subpart D; or is a mixture containing a waste listed in Part 261, Subpart D.

For each of these Groups, Figure 3 indicates with which regulations (if any) the person handling these wastes must comply. Figure 3 also explains that, if a person handles hazardous waste which is not included in any one of the above three categories, his waste is subject to the regulations diagrammed in Figure 4.

Figure 4 is a flowchart which identifies the three categories of activities regulated under the corresponding set of rules with which people in each of these categories must comply. It points out that all people who handle hazardous waste are either: (1) generators of hazardous waste, (2) transporters of hazardous waste, (3) owners of operators of

hazardous waste treatment, storage, or disposal facilities, or (4) a combination of the above. Figure 4 indicates that all of these people must notify DNREC of their hazardous waste activities in accordance with the Notification Procedures of 7 Del. C. Chapter 63 and obtain an EPA identification number.

It should be noted that people handling wastes listed in Subpart D of Part 261 who have filed, or who intend to file an application to exempt their waste from regulation under the regulations governing Hazardous Waste must also comply with the notification requirements.

If a person generates hazardous waste, Figure 4 indicates that he must comply with the Part 262 rules. If he transports it, he must comply with the Part 263 rules. The standards in both these Parts are designed to ensure, among other things, proper recordkeeping and reporting, the use manifest a system to track shipments of hazardous waste, the use of proper labels and containers, and the the delivery of waste to а permitted treatment, storage, disposal facility.

If a person owns or operates a facility which treats, stores, or of hazardous disposes waste, the standards with which he must comply depend on a number of factors. of all, if the owner or operator of a storage facility is also the person who generates the waste, and the waste is stored at the facility for less than 90 days for subsequent shipment off-site, then the person must comply with §262.34 of the Part 262 rules.

All other owners or operators of treatment, storage, or disposal facilities must comply with either the Part 264 or the Part 265 rules. To determine with which of these sets of rules an owner or operator must comply, he must find out whether his facility qualifies for interim status. To qualify, the owner or operator must: (1)Have been treating, storing, or disposing of the hazardous waste, or commenced

construction on or before November 19, 1980, (2) comply with the notification requirements, and (3) apply for a permit under Part 122 of these Regulations.

If the owner or operator has done all of the above, he qualifies for interim status, and he must comply with the Part 265 rules. These rules contain administrative requirements. monitoring and closure standards, and an abbreviated set of technical and closure and post-closure cost estimate requirements. The owner or operator must comply with these standards until final administrative disposition his permit application is made. If a permit is issued to the owner or operator, he must then comply with the permit which will be based on the Part 264 rules.

If the owner or operator has not carried out the above three requirements, he does not qualify for interim status. Until he is issued a permit for his facility, the owner or operator must stop waste management operations (if any) at the facility, and send his hazardous waste (if any) to a facility whose owner or operator has interim status or to a storage facility following the Part 262 rules.

In order to apply for a permit, the owner or operator must comply with the procedures specified in Part 122 of these Regulations.

be Ιt should noted that the Department will be periodically revising the rules depicted in Figures 3 and 4. All persons are encouraged to write to DNREC to verify that the regulations which they are reading are up-to-date. To obtain verification, contact: DNREC. Kings Highway, P. O. Box 1401, Dover, (302)19903, 736-4781.

FIGURE 1 DEFINITION OF A SOLID WASTE

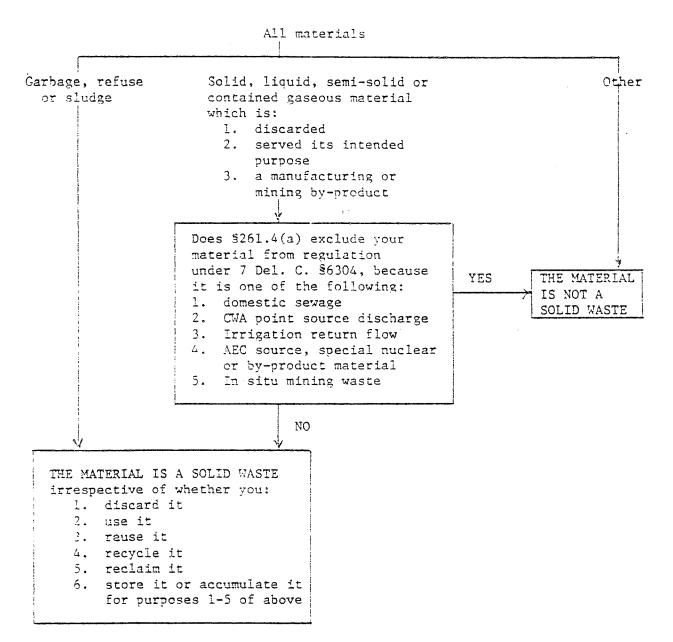


FIGURE 2

DEFINITION OF A HAZARDOUS WASTE

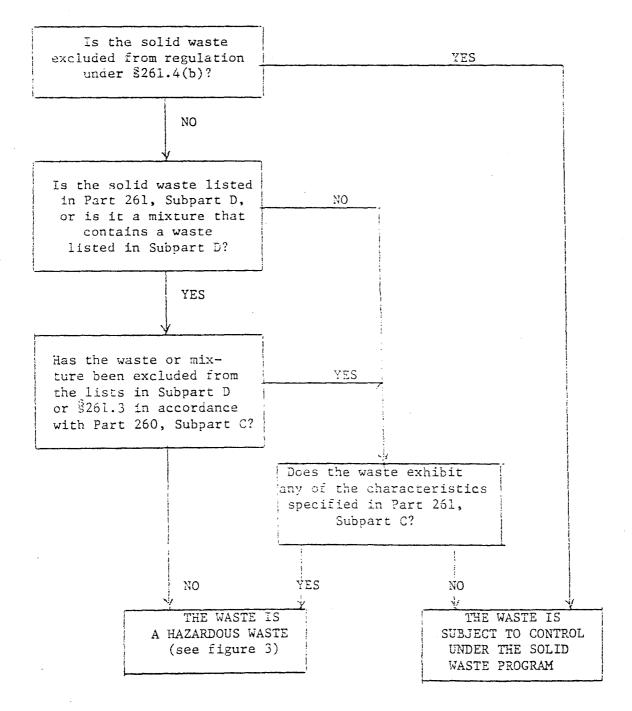


FIGURE 3
SPECIAL PROVISIONS FOR CERTAIN HAZARDOUS WASTE

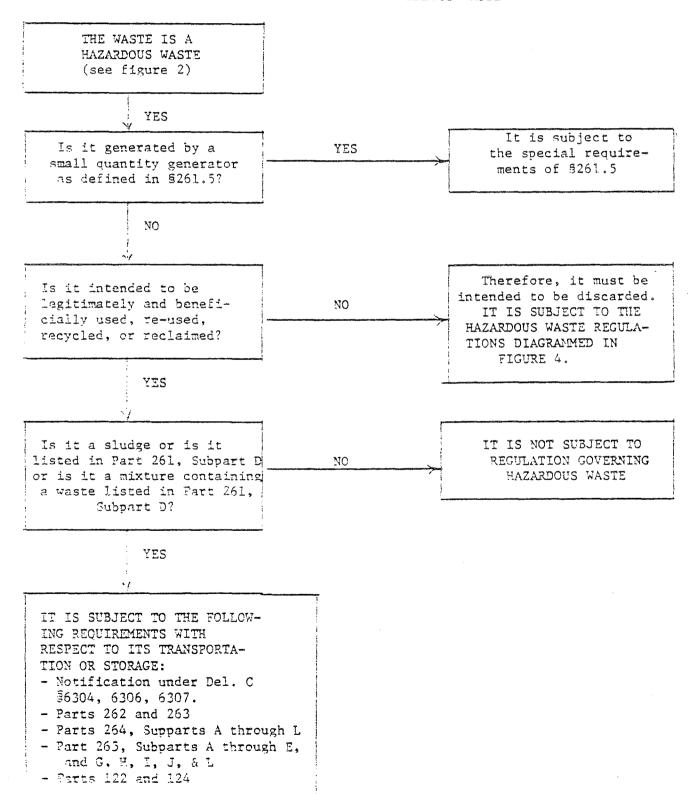


FIGURE 4

REGULATIONS FOR HAZARDOUS WASTE NOT COVERED IN DIAGRAM 3

All persons who handle hazardous waste subject to control under 7 Del. C. Chpater 63 not covered in Figure 3

Notify DNRECaccording to 7 Del. C. Chapter 63 Obtain EPA ID Number Transporters Generators Owners or Operators of T/S/D* Facilities On-Site Generators All other Owners Storing Wastes or Operators 90 days for subsequent 0/0** who 0/0 who don't shipment off-site qualify for qualify for interim status interim status Part 262 Part 263 \$262.34 of Part 265 -Stop operations, if any Part 262 -Send waste inventory, if any, to a facility whose owner or operator has interim status, or a permit, following the Part 262 rules -Apply for permit under Part 122 & resume or commence operations only

> after permit is issued by DNREC under Parts 122.

124 and 264.

^{*} T/S/D stands for Treatment, Storage, or Disposal ** 0/0 stands for Owners or Operators

PART 261-IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

Subpart A-General

Section

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- 261.7 Residues of hazardous waste in empty container.

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Subpart B-Criteria for identifying the Characteristics of Hazardous Waste and for Listing Hazardous Wastes

- 261.10 Criteria for identifying the characteristics of hazardous
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Subpart C-Characteristics of Hazar dous Wastes

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General

Subpart D-Lists of Hazardous Wastes

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Appendices

261.20

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- Appendix VII-Basis for Listing Appendix VIII-Hazardous Constituents

Subpart A-General

§261.1 Purpose and scope.

(a) This Part identifies those solid wastes which are subject to regulation as hazardous wastes under Parts 262 through 265 and Parts 122 through 124 of these Regulations and which are subject to the notification and requirements of 7 Del. C. §§6304, 6306 and 6307.

In this part:

- (1) Subpart A defines the terms "solid waste" and "hazardous waste," identifies those wastes which are excluded from regulation under Parts 262 through 265 and 122 through 124 and establishes special management requirements for hazardous waste produced by small quanitity generators and hazardous waste which is used, reused, recycled or reclaimed.
- (2) Subpart B sets forth the criteria used by DNREC to identify characteristics of hazardous waste and to list particular hazardous wastes.
- (3) Subpart C identifies characteristics of hazardous waste.
- (4) Subpart D lists particular hazardous wastes.
- (b) This Part identifies only some of the materials which are hazardous wastes under 7 $\underline{\text{Del. C.}}$ §6310 and §6308.

A material which is not a hazardous waste identified in this

part is still a hazardous waste for purposes of those sections if:

- (1) In the case of $\frac{7}{5}$ Del. C. $\frac{6}{5}$ 6310, DNREC has reason to believe that the material may be a hazardous vaste within the meaning of $\frac{7}{5}$ Del. C. $\frac{6}{5}$ 6302(7).
- (2) In the case of $\frac{7 \text{ Del.}}{\text{C.}}$ § 6308, the statutory elements are established.

\$261.2 Definition of solid waste.

- (a) A solid waste is any garbage, refuse, sludge or any other waste material which is not excluded under \$261.4(a).
- (b) An "other waste material" is any solid, liquid, semi-solid or contained gaseous material, resulting from industrial, commercial, mining or agricultural operations, or from community activities which:
- (1) Is discarded or is being accumulated, stored or physically, themically or biologically treated prior to being discarded; or
- (2) Has served its original intended use and sometimes is discarded; or
- (3) is a manufacuring or mining by-product and sometimes is liscarded.
- (c) A material is "discarded" if it is abandoned (and not used, re-used, reclaimed or recycled) by being:

(1) Disposed of: or

- (2) Burned or incinerated, except where the material is being burned as a fuel for the purpose of recovering usable energy; or
- (3) Physically, chemically, or biologically treated (other than burned or incinerated) in lieu of or trior to being disposed of.
 - (d) A material is "disposed of"

- if it is discharged, deposited, injected, dumped, spilled, leaked or placed into or on any land or water so that such material or any constituent thereof may enter the environment or be emitted into the air or discharged into ground or surface waters.
- A "manufacturing or mining (e) by-product" is a material that is not one of the primary products of a particular manufacturing or mining operation, is secondary a incidental product of the particular operation and would not be solely and separately manufactured or mined the particular manufacturing or mining operation. The term does not include intermediate manufacturing mining product which results from one of the steps in a manufacturing or process and' mining is typically processed through the next step of the process within a short time.

§261.3 Definition of Hazardous Waste

- (a) A solid waste, as defined in §261.2, is a hazardous waste if:
- (I) It is not excluded from regulation as a hazardous waste under \$261.4(b); and
- (2) It meets any of the following criteria:
- (i) It exhibits any of the characteristics of hazardous waste identified in Subpart C.
- (ii) It is listed in Subpart D and has not been excluded from the lists in Subpart D under Part 260 Subpart C of these Regulations.
- (iii) It is a mixture of a solid waste and a hazardous waste that is listed in Subpart D solely because it exhibits one or more of the characteristics of hazardous waste identified in Subpart C, unless the resultant mixture no longer exhibits any characteristic of hazardous waste identified in Subpart C.

- (iv) It is a mixture of solid waste and one or more hazardous wastes listed in Subpart D and has not excluded from this paragraph under Part 260 Subpart C of these Regulations; however, the following mixtures of solid wastes and hazardous wastes listed in Subpart D are not wastes hazardous (except application of paragraph (a)(2) (i) or (ii) of this Section) if the generator demonstrate that the mixture consists of wastewater the discharge of which is subject to regulation under either Section 402 or Section 307(b) of the Clean Water (including wastewater at facilities which have eliminated the discharge of wastewater) and:
- (A) One or more of the following solvents listed in spent §261.31-carbon tetrachloride, trichloroethylenerachloroethylene provided that the maximum total weekly usage of these solvents (other than the amounts that can be demonstrated not to be discharged to wastewater) divided by the average weekly flow of wastewater into the headworks of the facility's wastewater treatment pre-treatment system does not exceed 1 part per million or
- (B) One or more of the following spent solvents listed in §261.31chloride, 1,1,1-trichlor methylene chlorobenzene, 0-dichloro oethane, cresols, cresylic acid, benzene, toluene, methylnitrobenzene, ethylketone, carbon disulfide, isobutanol, pyridine, spent chlorofluoro carbon solvents-provided that maximum total weekly usage of these solvents (other than the amounts that not to demonstrated discharged to wastewater) divided by the average weekly flow of wastewater into the headworks of the facility's wastewater treatment or pre-treatment system does not exceed 25 parts per million; or
- (C) One of the following wastes listed in §261.32-heat exchanger bundle cleaning sludge from the petroleum refining industry DNREC Hazardous Waste No.KO50); or

- (D) Α discarded commercial product. chemical or chemical intermediate listed in §261.33 arising from de minimis losses of these materials from manufacturing operations in which these materials are used as raw materials or are produced in the manufacturing For purposes process. of "de minimis" sub-paragraph, include those from normal material handling operations (e.g. spills from the unloading or transfer of materials from bins or other containers, leaks from pipes, valves or other devices used to transfer materials); minor leaks of process equipment storage tanks or containers; leaks well-maintained pump packings and seals; sample purgings; relief device discharges; discharges from safety showers and rinsing and cleaning of personal safety equipment; and rinsate empty containers from or containers that are rendered empty by that rinsing; or
- (E) Wastewater resulting laboratory operations containing toxic (T)wastes listed in Subpart D. provided that the annualized average flow of laboratory wastewater does not exceed one percent of total wastewater flow into the headworks of facility's wastewater treatment pre-treatment system, or provided the wastes, combined annualized average concentration does not exceed one part per million in the headworks of the facility's wastewater treatment pre-treatment facility. Toxic (T)wastes used in laboratories that are demonstrated not to be discharged to wastewater are not to be included in this calculation.
- (b) A solid waste which is not excluded from regulation under paragraph (a)(1) of this section becomes a hazardous waste when any of the following events occur.
- (1) In the case of a waste listed in Subpart D, when the waste first meets the listing description set forth in Subpart D.

- (2) In the case of a mixture of solid waste and one or more listed hazardous wastes, when a hazardous waste listed in Subpart D is first added to the solid waste.
- (3) In the case of any other waste (including a waste mixture), when the waste exhibits any of the characteristics identified in Subpart C.
- (c) Unless and until it meets the criteria of paragraph (d):
- (1) A hazardous waste will remain a hazardous waste.
- (2) Any solid waste generated from the treatment, storage or disposal of a hazardous waste, including any sludge, spill residue, ash, emission control dust or leachate (but not including precipitation run-off), is a hezardous waste.
- (d) Any solid waste described in paragraph (c) of this section is not a bazardous waste if it meets the following criteria:
- (1) In the case of any solid waste, it does not exhibit any of the characteristics of hazardous waste identified in Subpart C_{\star}
- (2) In the case of a waste which is a listed waste under Subpart D, contains a waste listed under Subpart D, or is derived from a waste listed in Subpart D, it also has been excluded from paragraph (c) under fart 260 Subpart C of these regulations.

\$261.4 Exclusions.

- (a) Materials which are not solid wastes. The following materials are not solid wastes for the purpose of this Part:
 - (1) (i) Domestic sewage; and
- (ii) Any mixture of domestic sewage and other wastes that

- passes through a sewer system to a publicly-owned treatment works for treatment. "Domestic sewage" means untreated sanitary wastes that pass through a sewer system.
- (2) Industrial wastewater discharges that are point source discharges subject to regulation under Section 402 of the Clean Water Act as amended.

(Comment: This exclusion applies only to the actual point source discharge. It does not exclude industrial wastewaters while they are being collected, stored or treated before discharge, nor does it exclude sludges that are generated by industrial wastevater treatement.)

- (3) Irrigation return flows.
- or by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011 et seq.
- (5) Materials subjected to intsitu mining techniques which are not removed from the ground as part of the extraction process.
- (5) Solid wastes which are not hazardous wastes. The following solid wastes are not hazardous waste:
- Household waste, including household waste that has been dellected, transported, stored, treated, disposed, recovered (e.g., tefuse-derived Suel) or reused. "Household waste" means any waste material (including garbage, trash and wastes in septic ranitary. derived from households (including single and multiple residences, hotels and notels)
- (2) Solid wastes generated by any of the following and which are returned to the soils as fertilizers:
- (i) The growing and harvesting of agricultural crops.

- (ii) The raising of animals, including animal manures.
- (3) Mining overburden returned to the mine site.
- (4) Fly ash waste, bottom ash waste, slag waste, and flue gas emission control waste generated primarily from the combustion of coal or other fossil fuels.
- (5) Drilling fluids, produced waters, and other wastes associated with the exploration development, or production of crude oil, natural gas or geothermal energy.
- (6)(i) Wastes which fail the test for the characteristics of EP toxicity because chromium is present or are listed in Subpart D due to the presence of chromium which do not fail the test for the characteristic of EP toxicity for any other constituent or are not listed due to the presence of any other constituent, and which do not fail the test for any other characteristic, if it is shown by a waste generator or by waste generators that:
- (A) The chromium in the waste is exclusively (or nearly exclusively) trivalent chromium; and
- (B) The waste is generated from an industrial process which uses trivalent chromium exclusively, (or nearly exclusively) and the process does not generate hexavalent chromium; and
- (C) The waste is typically and frequently managed in non-oxidizing environments.
- (ii) Specific wastes which meet the standard in (b)(6) (i)(A), (B) and (C) (so long as they do not fail the test for the characteristic of EP toxicity, and do not fail the test for any other characteristic) are:
- (A) Chrome (blue) trimmings generated by the following

- subcategories of the leather tanning and finishing industry; hair pulp/chrome tan/retan wet finish; hair save/chrome tan/retan/ wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.
- (B) Chrome (blue) shavings bу the following generated subcategories of the leather tanning finishing industry; pulp/chrome tan/retan/wet finish; hair tan/retan/wet finish; save/chrome retan/wet finish; beamhouse; no through-the-blue; and shearling.
- (C) Buffing dust generated by the following subcategories of the leather tanning and finishing industry; hair pulp/ chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue.
- (D) Sewer screenings generated by the following subcategories of the leather tanning and finishing industry; hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.
- (E) Wastewater treatment sludges generated Ъy the following sub-categories of the leather tanning finishing industry pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.
- (F) Wastewater treatment sludges generated by the following subcategories of the leather tanning and finishing industry; hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/ wet finish; and through-the-blue.
- (G) Waste scrap leather from the leather tanning industry, the shoe manufacturing industry, and other leather product manufacturing industries.

- (H) Wastewater treatment sludges from the production of TiO2 pigment using chromium-bearing ores by the chloride process.
- (7) Solid waste from the extration, beneficiation and processing of ores and mineral (including coal), including phosphate rock and overburden from the mining of uranium ore.
 - (8) Cement kiln dust waste.
- (9)Solid waste which consists of discarded wood or wood products which fails the test for the characteristic of EP toxicity which is not a hazardous waste for any other reason if the waste is generated utilize who persons wood ard arsenical-treated products for these materials' intended end use.
- Hazardous wastes which are (c) exempted from certain regulations. hazardous waste which is generated in a product or raw material storage a product or raw material tank, transport vehicle or vessel, a product or raw material pipeline, or in a manufacturing process unit or non-waste-treatmentassociated manufacturing unit, is not subject to regulation under Parts 262 through 265 of these Regulations and Parts 122 through 124 of these Regulations or to the notifi cation requirements of 7Del. Code 6304, 6306 & 6307, until it exits the unit in which it was generated, unless the unit surface impoundment, or unless the hazardous waste remains in the unit more than 90 days after the bе operated for manu ceases to for storage or facturing, or transportation of product or raw materials.
- (d) Samples. (1) Except as provided in paragraph (d)(2) of this section, a sample of solid waste or a sample of water, soil, or air, which is collected for the sole purpose of testing to determine its character istics or composition, is not subject to any requirements of this part of

- Parts 262 through 265 or Parts 122 or 124 of these Regulations or to the notification requirements of Del. C. §§6304, 6306 and 6307 when:
- (i) The sample is being transported to a laboratory for the purpose of testing; or
- (ii) The sample is being transported back to the sample collector after testing; or
- (iii) The sample is being stored by the sample collector before transport to a laboratory for testing; or
- (iv) The sample is being stored in a laboratory before testing; or
- (v) The sample is being stored in a laboratory after testing but before it is returned to the sample collector; or
- (vi) The sample 15 stored temporarily in being the laboratory after testing for а specific purpose (for example, until conclusion of a court case enforcement action where further testing of the sample may. necessary).
- (2) In order to qualify for the exemption in paragraph (d)(l)(i) and (ii) of this section, a sample collector shipping samples to a laboratory and a laboratory returning samples to a sample collector must:
- (i) Comply with U.S. Department of Transportation(DOT), U.S. Postal Service (USPS), or any other applicable shipping require ments; or
- (ii) Comply with the following requirements if the sample collector determines that DOT, USPS, or other shipping requirements do not apply to the shipment of the sample:
- (A) Assure that the following information accompanies the sample:

- (1) The sample collector's name, mailing address and telephone number;
- (2) The laboratory's name, mailing address, and telephone number;
- (3) The quantity of the sample;
 - (4) The date of shipment; and
- (5) A description of the sample.
- (B) Package the sample so that it does not leak, spill, or vaporize from its packaging.
- (3) This exemption does not apply if the laboratory determines that the waste is hazardous but the laboratory is no longer meeting any of the conditions stated in paragraph (d)(1) of this section.
- §261.5 Special requirements for hazardous waste generated by small quantity generators.
- (a) A generator is a small quantity generator in a calendar month if he generated less than 1000 kilograms of hazardous waste in that month.
- (b) Except for those identified in paragraphs (e) and (f) of this section, a small quantity generator's hazardous wastes are not subject to regulation under Parts 262 through 265 of these Regulations and 122 124 Parts and οf these the Regulations, and notification requirements of 7 <u>Del. Code</u> §6304, 6306 & 6307, provided the generator complies with the requirements paragraph (g) of this section.
- (c) Hazardous waste that ís beneficially used re-used or legitimately recycled or reclaimed and that is excluded from regulation by $\S261.6(a)$ is not included in the quantity determinations οf section and is not subject to any

- requirements of this section. Hazardous waste that is subject to the special requirements of §261.6(b) is included in the quantity determinations of this section and is subject to the requirements of this section.
- (d) In determining the quantity of hazardous waste he generates, a generator need not include:
- (1) His hazardous waste when it is removed from on-site storage; or
- (2) Hazardous waste produced by on-site treatment of his hazardous waste.
- (e) If a small quantity generator generates acutely hazardous waste in a calendar month in quantities greater than set forth below, all quantities of that acutely hazardous waste are subject to regulation under parts 262 through 265 of these Regulations and Parts 122 and 124, and the notification requirements of 7 Del. Code §6304, 6306 & 6307:
- (1) A total of one kilogram of commercial chemical products and manufacturing chemical intermediates having the generic names listed in §261.33(e), and off-specification commercial chemical products maunufacturing chemical intermediates which, if they met specifications. would have the generic names listed in §261.33(e).
- (2) A total of 100 kilograms of any residue or contaminated soil, water or other debris resulting form the cleanup of a spill, into or on any land or water, of any commercial chemical products or manufacturing chemical intermediates having generic names listed in §261.33(e), or any residue or contaminated soil, water or other debris resulting from the cleanup of a spill, into or on any land or water, of any off-specification commercial chemical products or manufacturing chemical intermediates which, if they met specifications, would have the generic names listed in §261.33(e).

- (f) A small quantity generator may accumulate hazardous waste on site. If he accumulates, at any time, more than a total of 1000 kilograms of his hazardous waste, or his acutely hazardous wastes in quanitites greater than set forth in paragraphs (e)(1) or (e)(2) of this section, all of those accumulated wastes for which accumulation limit was exceeded are subject to regulation under Parts 262 through 265 of these Regulations and Parts 122 and 124., and notification requirements of 7 Del. Code §6304, 6306 & 6307. The time period of §262.34 for accumulation of wastes on-site begins for a small quantity generator when accumulated wastes exceed the applicable exclusion level.
- (g) In order for hazardous waste generated by a small quantity generator to be excluded from full regulation under this section, the generator must:
- (1) Comply with §262.11 of these Regulations.
- (2) If he stores his manardous waste ontsite store it in compliance with the requirements of paragraph (f) of this section; (and section 265 Subpart I & J:) and
- (3) Either treat or dispose of his hazardous waste in an ontsite facility, or ensure delivery to an offsite storage, treatment or disposal facility, either of which is:
- (i) Permitted under Part 122.
- $\left(\text{ii}\right)$ In interim status under Parts 122 and 265 of these Regulations.
- (iii) Authorized to manage hazardous waste by the Delaware Mazardous Waste Management Program approved under 40 CFR Part 123;

(iv) Permitted, licensed or registered by a State to manage municipal or industrial solid waste and which is approved by the Department to handle hazardous wastes from small quantity generators;

(v) A facility which:

- (A) Beneficially uses or recuses, or legitimately recycles or reclaims his waste; or
- (B) Treats his waste prior to beneficial use or resuse, or legitimate recycling or reclamation.
- (h) Hazardous waste subject to the reduced requirements of this be section aay mixed non-hazardous waste and remain subject these reduced requirements even though the resultant mixture exceeds the quantity limitations identified in this section, unless the mixture meets of the characteristics hazardous wastes identified in Subpart
- (i) If a small quantity generator mixes a solid waste with a hazardous waste that exceeds a quantity exclusion level of this section, the mixture is subject to full regulation.
- §261.6 Special requirements for hazardous waste which is used, re-used, recycled or reclaimed.
- (a) Except as otherwise provided in paragraph (b) of this section, a hazardous waste which meets any of the following criteria is not subject to regulation under Parts 252 through 265 of Parts 122 through 124 of these regulations and is not subject to the notification requirements of 7 Del. C. §§6304, 6306 and 6307 until such time as the Secretary promulgates regulations to the contrary:
- (1) It is being beneficially used or reused or legitimately recycled or reclaimed.

- (2) It is being accumulated, stored, or physically, chemically or biologically treated prior to beneficial use or re-use or legitimate recycling or reclamation.
- (3) It is one of the following materials being used, reused, recycled or reclaimed in the specified manner:
- (i) Spent pickle liquor which is reused in wastewater treatment at a facility holding a National Pollutant Discharge Elimination System (NPDES) permit or which is being accumulated, stored, or physically, chemically or biologically treated before such reuse.
- Except for those (b) wastes listed in paragraph (a)(3) of this section, a hazardous waste that is a sludge, or that is listed in §§261.31 or 261.32, or that contains one or hazardous wastes listed more §§261.31 or 261.32: and transported or stored prior to being used, reused, recycled, or reclaimed to following subject the requirements with respect to such transportation or storage:
- (1) Notification requirements under 7 Del. C. $\S6304$, 6306 and 6307.
- (2) Part 262 of these regulations.
- (3) Part 263 of these regulations.
- (4) Applicable provisions of Subparts A through L of Part 264 of these regulations.
- (5) Applicable provisions of Subparts A through L of Part 265 of these regulations.
- (6) Parts 122 and 124 of these Regulations with respect to storage facilities.
- §261.7 Residues of hazardous waste in empty containers.

- (a)(1)Any hazardous waste remaining in either (i) an container or (ii) an inner removed from an empty container, as in paragraph (b) of this defined section, is not subject to regulation under Parts 261 through 265 of these Regulations or Parts 122 or 124 of Regulations or the to notification requirements of 7 Del. Code 6304, 6306 & 6307.
- (2) Any hazardous waste in either (i) a container that is not empty or (ii) an inner liner removed from a container that is not empty, as defined in paragraph (b) of this section, is subject to regulation under Parts 261 through 265, and Parts 122 and 124 of these Regulations and to the notification requirements of 7 Del. Code 6304, 6306 & 6307.
- (b)(1) A container or an inner liner removed from a container that has held any hazardous waste, except a waste that is a compressed gas or that is identified in $\S261.33(c)$ of these Regulations, is empty if:
- (i) all wastes have been removed that can be removed using the practices commonly employed to remove materials from that type of container, e.g., pouring, pumping, and aspirating, and
- (ii) no more than 2.5 centimeters (one inch) of residue remain on the bottom of the container or inner liner, or
- (ifi)(A) no more than 3 percent by weight of the total capacity of the container remains in the container or inner liner if the container is less than or equal to 110 gallons in size, or (B) no more than 0.3 percent by weight of the total capacity of the container remains in the container or inner liner if the container is greater than 110 gallons in size.
- (2) A container that has held a hazardous waste that is a compressed gas is empty when the

pressure in the container approaches atmospheric.

- (3) A container or an inner liner removed from a container that has held a hazardous waste identified in $\S261.33(c)$ of these Regulations is empty if:
- (i) the container or inner liner has been triple rinsed using a solvent capable of removing the commercial chemical product or manufacturing chemical intermediate;
- (ii) the container or inner liner has been cleaned by another method that has been shown in the scientific literature, or by tests conducted by the generator, to achieve equivalent removal; or
- (iii) in the case of a inner liner that container, the prevented contact of the commercial chemical product or manufacturing with 100 chemical intermediate container, has been removed.

Subpart B-Criteria for Identifying the Characteristics of Hazardous Waste and for Listing Hazardous Wasce

- §261.10 Criteria for identifying the characteristics of hazardous waste.
- (a) The Secretary shall identify and define a characteristic of hazardous waste in Subpart C only upon determining that:
- (1) A solid waste that exhibits the characteristic may:
- (i) Cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or
- (ii) Pose a substantial present or potential hazard to human health or the environment when it is improperly treated, stored, transport ed, disposed of or otherwise managed; and

- (2) The characteristic can be:
- (i)Measured рA an available standardized test method which is reasonably within the capability of generators ο£ solid waste or private sector laboratories that are available to serve generators of solid waste; or
- (ii) Reasonably detected by generators of solid waste through their knowledge of their waste.
- §261.11 Criteria for listing hazardous waste.
- (a) The Secretary shall list a solid waste as a hazardous waste only upon determining that the solid waste neets one of the following criteria:
- (1) It exhibits any of the characteristics of hazardous waste identified in Subpart C.
- (2) It has been found to be fatal to humans in low doses or, in the absence of data on human toxicity, it has been shown in studies to have ar oral 10 50 toxicity (rat) of less than 30 milligrams per kilogram, inhalation LC 50 toxicity (rat) less than 2 milligrams per liter, or a dermal LD 50 toxicity (rabbit) of less than 200 milligrams per kilogram or is of otherwise capable causing significantly contributing to increase in serious irreversible incapacitating reversible, (Waste listed in accordance with these criteria will be designated Acute Enzardous Waste.)
- (3) It contains any of the toxic constituents listed in Appendix VIII unless, after considering any of the following factors, the Secretary concludes that the waste Ĺs capable οf posing 3 substantial present or potential hazard to human health or the environment when improperly treated, stored. transported disposed of, or otherwise managed:

- (i) The nature of the toxicity presented by the constituent.
- (ii) The concentration of the constituent in the waste.
- The potential of (iii) constituent any the or toxic degradation product of the constituent to migrate from the waste into the environment under the improper management considered paragraph (a)(3)(vii) of this section.
- (iv) The persistence of the constituent or any toxic degradation product of the constituent.
- (v) The potential for the constituent or any toxic degrad ation product of the constituent to degrade into non-harmful constituents and the rate of degradation.
- (vi) The degree to which the constituent or any degradation product of the constituent bioaccumulates in ecosystems.
- (vii) The plausible types of improper management to which the waste could be subjected.
- (viii) The quantities of the waste generated at individual generations sites or on a regional or national basis.
- (ix) The nature and severity of the human health and environmental damage that has occurred as a result of the improper management of wastes containing the constituent.
- (x) Action taken by other governmental agencies or regulatory programs based on the health or environmental hazard posed by the waste or waste constituent.
- (xi) Such other factors as may be appropriate. Substances will be listed on Appendix VIII only if they have been shown in scientific studies to have toxic, carcinogenic, mutagenic or teratogenic effects on humans or other life forms.

(Wastes listed in accordance with these criteria will be designated Toxic wastes.)

- (b) The Secretary may list classes or types of solid waste as hazardous waste if he has reason to believe that individual wastes within the class or type of waste, typically or frequently are hazardous under the definition of hazardous waste found in 7 Del. C. Chapter 63.
- (c) The Secretary will use the criteria for listing specified in this section to establish the exclusion limits referred to in §261.5(c).

Subpart C-Characteristics of Hazardous Waste

§261.20 General

(a) A solid waste, as defined in $\S261.2$ which is not excluded from regulation as a hazardous waste under $\S261.4(b)$, is a hazardous waste if it exhibits any of the characteristics identified in this Subpart.

(Comment: §262.11 of these Regulations sets forth the generator's responsibility to determine whether his waste exhibits one or of more the characteristics identified in this Subpart)

- A hazardous waste which is identified by a characteristic in this subpart, but is not listed hazardous waste in Subpart D, is assigned the DNREC Hazardous Waste Number set forth in the respective characteristic in this Subpart. number must be used in complying with the notification requirements of 7 Del. C. §§6304, 6306 and 6307 and certain recordkeeping and reporting requirements under Parts 262 through 265 and Part 122 of these regulations.
- (c) For purposes of this Subpart, the Secretary will consider a sample obtained using any of the applicable sampling methods specified in Appendix I to be representative sample within the meaning of Part 260 of these regulations.

(Comment: Since the Appendix Ι sampling methods are not being formally adopted by the Secretary, a person who desires to employ an alternative sampling method is not required to demonstrate the equivalency of his method under the procedures set forth in Part Subpart C.

§261.21 Characteristic of Ignitability.

- (a) A solid waste exhibits the characteristic of ignitability if a representative sample of the waste has any of the following properties.
- It is a liquid, other than an aqueous solution containing less than 24 percent alcohol by volume and has flash point less than 60 degrees C (140 degrees F), determined by a Pensky-Martens Closed Cup Tester, using the test method specified in ASTM Standard D-93-79 or D-93-80 (incorporated by reference see §260.11), or a Setaflash Closed Cup using the test specified in ASTM Standard D-3278-78 (incorporated bу reference, see $\S260.11$), or as determined by an equivalent test method approved by the Secretary under procedures set forth in Part 260 Subpart C.
- (2) It is not a liquid and is capable, under standard temperature and pressure, of causing fire through fricton, absorption of moisture or spontaneous chemical changes and when ignited burns so vigorously and persistently that it creates a hazard.
- (3) It is an ignitable, compressed gas as defined in 49 CFR 173.300 and as determined by the test methods described in that regulation or equivalent test methods approved by the Secretary under Part 260 Subpart C.
- (4) It is an oxidizer as defined in 49 CFR 173.151.

- (b) A solid waste that exhibits the characteristic of ignitability, but is not listed as a hazardous waste in Subpart D, has the DNREC Hazardous Waste Number of DOO1.
- §261.22 Characteristic of corrosivity.
- (a) A solid waste exhibits the characteristics of corrosivity if a representative sample of the waste has either of the following properties:
- (1) It is aqueous and has a pH less than or equal to 2 or greater than or equal to 12.5, as determined by a pH meter using either an EPA test method or an equivalent test method approved by the Secretary under the procedures set forth in Part 260 Subpart C. The EPA test method for pH is specified as Method 5.2 in "Test Methods for the Evaluation of Solid Physical/Chemical Methods" Waste, (incorporated рy reference, §260.11).
- (2)It is a liquid corrodes steel (SAE 1020) at a rate greater than 6.35 mm (0.250 inch) per year at a test temperature of C (130 degrees Γ) degrees as determined Ъу the test method NACE (National specified in Association of Corrosion Engineers) Standard TM-01-69 as standardized in "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods" (incorporated by reference, see 3260.11) or an equivalent test method approved by the Secretary under the procedure set forth in Part 260 Subpart C.
- (b) A solid waste that exhibits the characteristic of corrosivity, but is not listed as a hazardous waste in Subpart D, has the DNREC Hazardous Waste Number of D002.

§261.23 Characteristic of reactivity.

(a) A solid waste exhibits the characteristic of reactivity if a representative sample of the waste has any of the following properties:

- (1) It is normally unstable and readily undergoes violent change without detonating.
- (2) It reacts violently with water.
- (3) It forms potentially explosive mixtures with water.
- (4) When mixed with water, it generates toxic gases, vapors or fumes in a quantity sufficient to present a danger to human health or the environment.
- (5) It is a cyanide or sulfide bearing waste which, when exposed to pH conditions between 2 and 12.5 can generate toxic gases, vapors or fumes in a quantity sufficient to present a danger to human health or the environment.
- (6) It is capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement.
- (7) It is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure.
- (8) It is a forbidden explosive as defined in 49 CFR 173.51, or a Class A explosive as defined in 49 CFR 173.53 or a Class B explosive as defined in 49 CFR 173.88.
- (b) A solid waste that exhibits the characteristic of reactivity, but is not listed as a hazardous waste in Subpart D, has the DNREC Hazardous Waste Number of D003.
- §261.24 Characteristic of EP Toxicity.
- (a) A solid waste exhibits the characteristic of EP toxicity if, using the test methods described in Appendix II or equivalent methods approved by the Secretary under the procedures set forth in Part 260 Subpart C, the extract from a

representative sample of the waste contains any of the contaminants listed in Table I at a concentration equal to or greater than the respective value given in that Table. Where the waste contains less than 0.5 percent filterable solids, the waste itself, after filtering, is considered to be the extract for the purposes of this section.

(b) A solid waste that exhibits the characteristic of EP toxicity, but is not listed as a hazardous waste in Subpart D, has the DNREC Hazardous Waste Number specified in Table I which corresponds to the toxic contaminant causing it to be hazardous.

TABLE ! — MAXIMUM CONCENTRATION OF CON-TAMINANTS FOR CHARACTERISTIC OF EP TOXICITY

DNREC hezerdoue waste number	Contaminant	Maximum concentra- tion (milligrams per kter)
C004	Arsenc	5.0
0005	Benum	100.0
CC 25	Cademum	
CC07	Стопния	
O008	Lsed	5.0
CCC9	Mercury.	
C010	Sainnen	10
0011		5.0
0012	Endrin (1,2,3,4,10,10-hexach-	0.02
	loro-1,7-epoxy- 1,4,4a,5,6,7,8,8a-octahydro- 1,4-endo, endo-5,8-dimeth- ano-naphthalane.	
D013	Undens (1.2.3,4,5,6-hexa- chior- ocyclohexane, gamma isomer,	0.4
Q014	Methoxychior (1,1,1-Trichloro- 2,2-bis [p-methoxy- phonyl]ethane).	10.0
∞15	Toxaphana (C ₁₀ H ₁₄ Cl ₁₄ Tachnical chlorinated camphana, 37–89 percant chorina)	0.5
∞16	. 2,4-0 (2,4-) Ordhlorochenoxyecetic acid)	100
2017	2.4.5 TP Silvex (2.4.5-Trichio- i rophenoxypropionic acid)	10

Subpart D- Lists of Hazardous Wastes

§261.30 General.

- (a) A solid waste is a hazardous waste if it is listed in this Subpart, unless it has been excluded from this list under Part 260 Subpart C.
 - (b) The Secretary will indicate

his basis for listing the classes or types of wastes listed in this Subpart by employing one or more of the following Hazard Codes.

www.www.	4
C	
EP Toxe: Waste	
Processes except	Wagie

Appendix VII identifies the constituent which caused the Secretary to list the waste an an EP Toxic Waste (E) or Toxic Waste (T) in \S 261.31 and 261.32.

- (c) Each hazardous waste listed in this Subpart is assigned a DNREC Hazardous Waste Number which precedes the name of the waste. This number must be used in complying with the notification requirements of 7 Del. C. §6304, 6306 and 6307 and certain recordkeeping and reporting requirements under Parts 262-265 and Part 122 of these regulations.
- (d) The following hazardous wastes listed in §261.31 or §261.32 are subject to the exclusion limits (or acutely hazardous wastes established in §261.5.

3 261.31 Hazardous wastes from non-specific sources.

Industry	and hazardous waste No	Hazardous waste	Hazard code
Genenc	14		
F001		The following spent halogenated solvents used in degreasing tetrachloroethylene incollopethylene, methylene chloride. I 1.5 Inchloroethane carbon tetrachloride, and chlorinated Buorocarbons, and studges from the recovery of these solvents in degreasing operations.	ויו
F002		The inflowing spent halogenated solvents tetrachloroethylene methylene chlonde trichloroethylene, 1,1,1-trichloroethane chlorobenzene, 1,1,2-trichloro-1,2,2 trifloor- oethane, ortho-dichlorobenzene and trichlorofluoromethane and the abili bottoms from the recovery of these solvents.	E
F003		The following spent non-halogenated solvents sylene actions, ethyl actiate, ethyl benzene, ethyl ether, methyl iscountly ketone in-butyl alcohol, cyclohecanone, and methanol and the still bortoms from the recovery of these solvents.	(1)
F004.		The loflowing spent non-halogenated solvents cresols and cresylic acid, and infrobenzene; and the stiff bottoms from the recovery of these solvents.	m
F005.		The lottowing spent non-halogenated solvents, totuene, methyl ethyl kelone, carbon disulfide, risobutanol, and pyridine, and the sulf bottoms from the recovery of those solvents.	(I, T) .
F006		Wastewater freatment sluxtyes from electroplating operations except from the following processes: (1) suthinc acid anodomic of aluminum, (2) lim plating on carbon steel; (3) zinc plaung (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stroping associated with bin, zinc and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.	
FOIS		Wastewater treatment studges from the chemical conversion coating of aluminum	i (T)
F007.		Spant cyanida plating bath solutions from electroplating operations (except for procious metals electroplating scent cyanida plating bath solutions)	(A. T)
F008.		Plating bath sludges from the bottom of plating baths from infectiopisting operations where cyanidas are used in the process (arcept for precious metals electropisting plating bath sludges).	, .
F009		Spent stripping and cleaning bith solutions from electropiating opinations where yieldes are used in the process (except for precious metals electropiating spent stripping and cleaning bath solutions).	(A, T)
£010		Overching beth studge from oil beths from metal heal besting operations where changes are used in the process (except for precious metals heal beating querching bath studges).	3 1
F011		Spent cyanide solutions from sat bath pot cleaning from metal hoat treating operations fexcept for precious metals heat treating spent cyanide solutions from saft bath pot cleaning).	(A. T)
F012		Quenching wastewater beatment studges from metal heat treating operations where cyanides are used in the process (except for precious metals heat treating quenching wastewater treatment studges).	3

\$261.32 Hazardous wastes from specific sources.

Industry and hazardous waste No.	Hazardous waste	Hazard coos
Wood preservation, K001	Bottom sediment studge from the treatment of wastinwaiers from wood presenting processes that use creosote and/or pentachlorophenol	m
porganic pigmente:		
K602	Wastewater treatment studge from the production of chrome yellow and orange pigments	m
K003	Wastewater treatment studge from the production of molybdate grange pigments	m
K004	: Waslewater treatment studge from the production of zinc yellow pigments	(m)
	· · · · · · · · · · · · · · · · · · ·	; m
K006		
K007	Wastewater treatment aludge from the production of Iron blue pigments	m
K008	Oven residue from the production of chrome onde green pigments	m
Organic chemicals	i	1.
	Distillation bottoms from the production of acataldehyde from ethylene	m
X010		m
	Bottom stream from the wastewally stropper in the production of actionitria	I (P. T)
	Boltom stream from the acetonime criumn in the production of acryloninie	(A T)

A ALIENGA	nd harambus Hasin Mo	Hazarrous weeks	Hazen Hazen
K014		. Softoms from the adistrictive purification column in the production of acidontifie.	, (T)
X015		Still ingitions trum the distribution of Seezel Congress	i (T)
×016		Heavy ands or distillative insches from the production of carbon telescolorate	. (<u>T</u>)
×017		Meanly entition (still hottoms) from the our fination column in the production of hottoms from the production of	(17)
X018		Heavy ands form the frectionation column is allow chloride production.	<u> </u> m
4018		Hussak would take the qualifation of ethicians dictionals in ethicians dictionals	0
• •		FAUGING INDE	
K020	are as	· · · · · · · · · · · · · · · · · · ·	i (T)
		oraduation	1
X021		Acusous spent antimony calabyst waste from fluoromethanes production	(f)
×922		Distribution horizon tals from the production of phenot/acatons from currence of the production of	(L)
בולטא		Distribution by the most from the production of bhabalic anhydrode-from naphthalene	١ <u>.</u>
×024		Untillation tystigms from the production of philastic applying from hapfithaline	10
4033		Distillation light ands from the croduction of tithhalic annivoride from ortho sylene	m
K-04		Cistillation brillings from the production of philibalic anhydride from orbin sylene	(0)
2025 2026		Children horizone from the production of netroperizate by the netration of benzione Chroping allet falls from the production of mathy arbyt cylinknes	(2)
x02/		Centrity and distillation reactures from tolures discovantate production	ות או
4.028		Spent catalyst from the hydrochlonhater reactor in the production of 1,1,1-trichlor-	(0)
1024	;	nathana	1'''
×079	;	Waste from the product steam stropes in the production of 1,1,1-inchiproprinane	m
×025		Cantilation bottoms from the production of 1.1 Strictlorgethane	<u>m</u>
KODA		Heavy ands from the heavy ands column from the production of 1,1,1-inchloroots-	m
	:	สกร	1
K070			m
	:	and parchicenethylene	
KUUL KUUL		Cestilistion bottoms from aniline croduction	(E)
X 1/14	•	Princess readjives from antikia extraction from the production of shifted	, (L) , (L)
K T T A		Combined wastewater straight (powersted from litropercennote sittle production Cistillation or tractionalism column hollome from the production of chievopercense.	. (i)
×105		Sopraind aguanus aream from the respins swody washing step in the production	. m
		of chimalianyonna	,
Andrews C			i
×/1		Brins melimation mixts from the mercury cell process in chindre production, where	: (T)
wa 35		Tegaratery prenoutied bane to anti-used	. ~
¥077		. Chiertnalail hydrocathon waste from the purification step of the disphragm osal	ļ (B)
y r ne		Described mainty disapplies surviges in Chiorine broduction	· 🕾
esininide.		. Westawater treatment studge from the mercury call process in chloring production	1 1 1
. 311		- Gy-product sails generated in the production of MSMA and exceptivity soid	m
x 3.15		Wastewater treatment studge from the production of phlordene	i inj
*011		Wastewater and actub water from the chloringtion of cyclopentations in the	m
		promychon of chickdane	
x0.74		Filtre writing from the diffration of hexachickopyclopentations in the production of	\odot
		r mindang	_
×^97		. Vacuum attaber discharge from the chloridane chlorinator in the production of	. (4)
(075		chlordana	m
• ^-A		Wastewater treatment sudges generated in the production of creosote	75
* 07 *07?		Self bottoms from foliable recognision digitilation in the production of disulfolion	71
1028			77
K072	•	Total risks from the Shipken of diethylopaolyspodithes and in the production of	m
		บั,×มะช _เ ล	
4040		: Wasiewaler freatment sluring from the production of photete	\odot
NJ41 .		Western inestment studies from the production of foreigness.	m
±'€'UN		Untreated process wastewater from the production of foxsonens	· (L)
KQ42			FQ.
		production of 7,4.5."	_
±043 . ⊭∩ 99	•		E
_	·	Untradied wastawater from the production of 2,4/0	i m
YOMI NAME YOMAA	•	. Vastewalse treatment sludges from the manufacturing and processing of explosives .	. (A)
×1345		Spent nemon from the transment of weetswelder containing avoidance	(2)
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			1
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404B		Discovery at "foliation (DAF) final from the paintileum refining inclusive	
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		hymagas	
X052		Scient pickle liquid from steel firedwing open soons	ir n
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<101		Destination for readings from the distribution of solvine based components in the t	177
		procueing of valentary pharmaceuticals from stance or organi-arrand com-	
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§261.33 Discarded commercial chemical products off-specification species, container residues, and spill residues thereof.

The following materials or items are hazardous wastes if and when they are discarded or intended to be discarded:

- (a) Any commercial chemical product, or manufacturing chemical intermediate having the generic name listed in paragraph (e) or (f) of this section.
- (b) Any off-specification commercial chemical product or manufacturing chemical intermediate which, if it met specifications, would have the generic name listed in paragraph (e) or (f) of this section.
- (c) Any residue remaining in a container or an inner liner removed from a container that has held any commercial chemical product or manufacturing chemical intermediate having the generic name listed in paragraph (e) of this section, unless the container is empty as defined in §261.7(b)(3) of these Regulations.

[Comment: Unless the residue is being beneficially used or reused, or legitimately recycled or reclaimed; or being accumulated, stored, transported or treated prior to such use, re-use, or reclamation, recycling considers the residue to be intended for discard, and thus a hazardous An example of a legitimate waste. re-use of the residue would be where the residue remains in the container and the container is used to hold the same commercial chemical product or manufacturing chemical product manufacturing chemical intermediate it previously held. An example of the discard of the residue would be where drum is sent to a reconditions reconditioner who drum but discards the residue.

(d) Any residue or contaminated soil, water or other debris resulting from the cleanup of a spill into or on any land or water of any commercial chemical product or manufacturing chemical intermediate having generic name listed in paragraph (e) or (f) of this section, or any residue or contaminated soil, water or other debris resulting from the cleanup of a spill, into or on any land or water, οf any off-specification chemical product and manufacturing chemical which, intermediate if it specifications, would have the generic name listed in paragraph (e) or (f).

(e) The commercial chemical products, manufacturing chemical off-specification intermediates or commercial chemical products manufacturing chemical intermediates referred to in paragraphs (a) through (d) of this section, are identified as acute hazardous wastes (H) subject the small ζO quantity exclusion defined in 261.5(e).

[Comment: For the convenience of the regulated community the primary hazardous properties of these mater have been indicated T (Toxicity), letters and (Reactivity). Absence of a letter indicates that the compound only is listed for acute toxicity.]

These wastes and their corresponding DNREC Hazardous Waste Numbers are:

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(f) The commercial chemical products, manufacturing chemical off-specification intermediates, or commercial chemical products referred to in paragraphs (a) through (d) of this section, are identified as toxic wastes (T) unless otherwise designated and are subject to the small quantity exclusion defined in 261.5(a) and (f).

[Comment: For the convenience of the regulated community, the primary hazardous properties of these materials have been indicated by the letters T (Toxicity), R (Reactivity), I (Ignitability) and C (Corrosivity). Absence of a letter indicates that the compound is only listed for toxicity.]

These wastes and their corresponding DNREC Hazardous Waste Numbers are:

		Waste No	Sett	Maria No	Sidutanos	Harsidosa Wasta No.	Substance
		U(na)	Concerns, 1.2 consignation Study 4 prograf	uces	் ப ோன் இ	D576	Ethane, 1,1-dichlaro-
1.000.000	age of the second secon	₹£-2 5	Emiliaria, (1 month for Coff (1)	U246	Open when branshe	US77	Ethanic, 1.2 dictions
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March Med	and the second s	DIBG	Barawa, pantachloro-		- Crolohiaano (f)	U131	of Ethana, 1,1,1,2,2,2-thasas throng
7,34-7		CIES	Busyana particolorosalios		Or reactions (1)	, WD24	Emane, 1,1 (morth/deneciation/) but 2 and an-
v 5 m2 1	Acolembatyca (I)	£5320	Busine manifestic acut ethering (CM)	U130		EXOUS	Commissional (I, T)
CO 14	Austiklushyde tradduro-	15/20	Bionzal-insulforigh chilosofe (C.A)		Cyclophosphainida	U117	Emana, 1,11-caytus (I)
e ins	Audianide, 11 (4 ediang) diggs	U207	Bungano, 1,2 6 5 hillian 14 AD	U240		0625	
(1.875	Aperarisdu, N. Shi-Revisan 2 sh	U023	Bearine, (Incharmating) (Cit.)	UNIO		U164	Etrisne, portachioro-
to 12	Acelat acid, ethyl voter (i)	0234	Carron, 1,3.5 hosto- (H.T)	UCOI	cor	U208	
U) 44	Accelia dent, Sead Salls	U021	Benzalme	U142		U200	
U ₄ 14	Acetic haid, this/livero(t) east	10202	1,2 Bergreithnezolin 3-cine, 1,1-dicade		Cyclobalated & untaken-3-one	U2181,	Ethanethicamate
16.02	Acotore (I) Acotorolae (I,T)	U120 U022	Engolghithm on Congolality on Congol	U0x2	Daneto	U247	
Talaki) Kriko4	A, alcohorose	Uti22	3.4 Bunziq-yuna	U133	Derivo (A.T)	U227	pranyf).
12.05	2-Acet winning the sing	U197	p Benzoquera o	U221	Diaminiotohione .	U227 U043	Ethana, 1.1.2-inchioro-
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UCU7 .	Actylanda	1/050	1.2 Benzphangothwas	U063 .	1,2 5,6 Ocentantivacene	U078	Ethine, 1,1-dichloro-
1,6328	Active sond (I)	LK US	2.2 Bourne (LT)	U064 .	1,2 7,8 Orbenzopyrane	U079	Elnene, trans 1,2 dichloro
U(8/4)	Autytoi strike	U021	(1 1 Basherry) 4,4 charmine	U064 ., ,	Dawrule, ilpyrone	U210	Elnana, 1,1,2,2-tagachisto-
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	1 to 28 8 a Sc towary ko 3 a weetning 5	112.75	Branatom	0183	Dichipiodiffuororialhana 3,5 Dichipo-N (1,1 dinathyt 2 propynyt)	U067	Etylane dipromida
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1:017	Burstal Chicade	17/33	bearing	U0/8	1.1 On the outbyland		j Etryr athur (I) I Ethylidane dichlorida
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U152	Methacrytonitrile (I,T)	U181 .	5-Nitro o-toluisine	U233	Siver		
0092	Metheraniane, Nimethyl- (I)	U143	1,2 Oratholane, 2,2-dioxide	LO39	4,4"-Surbenedial, alpha, alpha' diethyl-		
U029	Methane bromo-	U058	2H 1.3.2 Ovazannosphonda, 2-(b-st2 chioro-	∪208	Streptozotocin		
U045	Methane, chloro- (I,T)		ethyllamino Hetrahydro- toxide 2-	U135	Sultur hydride		
U046	Methane, chkroniathory-	ULIS	Osirane (LT)	U103 U189	Sulfund acid, dimethyl aster Sulfur phosphida (R)		
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U075 U138	Methane dichiorodificoro- Methane, iodo	UIB3 .	Pentachiorobenzeira	U207	1.2,4,5-Tetrachicrobanzene		
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00.75	chluro-Ja 4.1 7a tetrahydro-	D085	Phanol, 2.6-dichloro- Physiol, 2.4 dimathyl	U218 U153	Thioscotamica Thiomethanol (I,T)		
U154	Methanol (I)	U101 U170	Phenol 4 retro-	U219	Thousa		
U155 .	Mathapyrlana	U242	Prienol perifachloro-	U244	Trwarn		
U247 .	Meltiusychlor	U212	Phenol, 2,3,4,6 lutrachloro-	U220	Toluene		
U154	Mathyl alcohol (f)	U230	Phenol 2,4.5 Inchioro-	U221	Toluenediamena		
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U186	Metry chionia (LT)	U137	1.10-(1.2 pherylene)pyrene	U222 U011	O-Foluldine hydrochiolide Tri-1,2,4-Triazoi-3-arriine		
U158	Mathyl chlorocarbonate (I,T)	U145	Phosphoric acid. Lead salt	U226	1,1,1-Trichloroemaille		
U226	MilithykitVoroform	U087	Phosphorodithioic acid 0,0 diathyti. Simethy textili		1,1,2 Inchlorouthane		
U157	3-Methylcholanthrena	U189	Phosphorous suffice (R)	U226	Trichloroethere		
U158	4,4" Methyloriobie (2-chlorosinane)	U190	Phihalic arrhydrodo	U226	Trichioroathylene		
U132	2.2' Methylenebia(3,4,8-trichlorophanici)	U191	2-Picolina	U121	Trichloromono/Noromathane	•	
U068	Methylania bromda Methylania chlorida	U192	Provitmidy		2.4 5-Trichlorophenol 2.4 6-Trichlorophenol		
U080	Methylena osida	U194	I-Propanamina (I™)		2.4 5-Fricthorophunoxyscatic acid		
U159	Mathyl ethyl kelons (I,T)	U110	1 Propanamine, N-propyl- (I)		aym-Trimitobunituna (R,T)		
U180	Mathyl ethyl ketone percuide (R.T)	LIXES.	Propene, s.2 distromo-3-chloro-	U182	1,3 5-Trioxana, 2,4,5-uvnathyl-		
U+38	Methyt iodide	U149	Propanedininia	U235	Tris(2,3-dibromopropyt) priosphate		
U161	Methyl motully! katoma (I)	U171 U027	Propane, 2 nitro- (I) Propane, 2,2 oxybis(2-chloro-		Trypan blue		
U162	Mailtyl mediucrylate (I,T)	U193	1,3-Propens sultone	U237 U237	Uracil, 5(bis(2-chioremethyl)amino). Uracil mustard		
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U164	Methythioused	U126	1-Propend, 2,3-apoxy-	U230	Xylena (I)		\
U010	Mitorriyah C	U140	1-Propinol, 2 multiple (I,T)	· U200	Yonin-ban-16-carbonylic acid, 11,17-dimeth-		
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U185	6.8,11-inhydroxy-1-methoxy-	11009	2-Propenentrie		•		
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U186	fult 1,4,Nurphihaqui vone	U194	n-Propriemine (I,T)				
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Appendix I-Representative sampling Methods

The methods and equipment used for sampling waste materials will vary with the form and cosistency of the waste materials to be sampled. Samples collected using the sampling protocols listed below for sampling waste with properties similar to the indicated materials, will be considered by the Department to be representative of the waste.

Extremely viscous liquid-ASTM Standard D140-70 Crushed or powdered material-ASTM Standard D346-75 Soil or rock-like material-ASTM Standard D420-89 Soil like material-ASTM Standard D1452-65

Fly Ash-like material-ASTM Standard D2234-76 (ASTM Standards are available from ASTM, 1916 Race Street, Philadelphia, PA 19103)

Containerized liquid wastes—"COLIWASA" Described in "Test Methods for the Evaulation of Solid WH-5658 Waste, Physical/Chemical Methods*, : U.S. Environmental Protection Agency, WH-5658 Office of Solid Waste, Washington, D.C. 20460

Liquid waste in pits, ponds, lagoons, and similar resevoirs - "Pond Sampler" described in "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods.1

The manual also contains additional information on application of these protocols.

^{*} The methods are also described in "Samplers and Sampling Procedures for Hazardous Waste Streams. "EPA 600/2-80-018. January 1980.

Appendix II - EP Toxicity Test Procedures

A. Extraction Procedure (EP)

- 1. A representative sample of the waste to be tested (minimum size 100 grams) shall be obtained using the methods specified in Appendix I or any other method capable of yeilding a representative sample within the meaning of Part 260. (For detailed guidance on conducting the various aspects of the EP Toxicity Test see "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods" incorporated by reference, see \$260.11).
- 2. The sample shall be separated into its component liquid and solid phases using the method described in "Separation Procedure" below. If the solid residue obtained using this method totals less than 0.5% of the original weight of the waste, the residue can be discarded and the operator shall treat the liquid phase as the extract and proceed immediately to Step 8.

The percent solids is determined by drying the filter pad at 80 degrees C until it reaches constant weight and then calculating the percent solids using the following equation:

% solids = (weight of pad + solid)
- (tare weight of pad)
 initial weight of sample
X 100

3. The solid material obtained from the Separation Procedure shall be evaluated for its particle size. If the solid material has a surface area per gram of material equal to, or greater than, 3.1 cm or passes through a 9.5 mm (0.375 inch) standard sieve, the operator shall

proceed to Step 4. If the surface area is smaller, or the particle size large than specified above, the solid material shall be prepared for extraction by crushing, cutting or grinding the material so that it passes through a 9.5 mm (0.375 inch) seive or, if the material is in a single piece, by subjecting the

material to the "Structural Integrity Procedure" described below.

- 4. The solid material obtained in Step 3 shall be weighed and placed in an extractor with 16 times its weight of deionized water. Do not allow the material to dry prior to weighing. For purposes of this test, an acceptable extractor is one which will impart sufficient agitation to the mixture to not only prevent stratification of the sample and extraction fluid but also insure that all sample surfaces are continuously brought into contact with well mixed extraction fluid.
- After the solid material and deionized water are placed in the extractor the operator shall begin agitation and measure the pH of the If the pH solution in the extractor. is greater than 5.0, the pH of the solution shall be decreased to 5.0 \pm 0.2 by adding 0.5N acetic acid. the pH is equal to or less than 5.0, no acetic acid should be added. pH of the solution shall be monitored, as described below, during the course of the extraction and if the pH rises above 5.2, 0.5N acetic acid shall be added to bring the pH down to 5.0 \pm 0.2. However, in no event shall the aggregate amount of acid added to the solution exceed 4 ml of acid per gram The mixture solid. shall agitated for 24 hours and maintained at 20 degrees - 40 degrees C (68 degrees - 104 degrees F) during this It is recommended that operator monitor and adjust the pH during the course of the extraction with a device such as the Type 45-A pH Contoller manufactured by Chemtrix, Inc., Hillsboro, Oregon 97123 or its in conjuction equivalent, vith metering pump and reservior of 0.5N acetic acid. If such a system is not available, the following procedure shall be employed:
- (a) A pH meter shall be calibrated in accordance with the ranufacturer's specifications.

- (b) The pH of the solution shall be checked and, if necessary, 0.5N acetic acid shall be manually added to the extractor until the pH reaches 5.0 ± 0.2. The pH of the solution shall be adjusted to 15, 30 and 60 minute intervals, moving to the next longer interval if the pH does not have to be adjusted more than 0.5N pH units.
- (c) The adjustment procedure shall be continued for at least 6 hours.
- (d) If at the end of the 24-hour extraction period, the pH of the solution is not below 5.2 and the maximum amount of acid (4ml per gram of solids) has not been added, the pH shall be adjusted to 5.0 ± 0.2 and the extraction continued for an additional four hours, during which the pH shall be adjusted at one hour intervals.
- 6. At the end of the 24 hour extraction period, deionized water shall be added to the extractor in an amount determined by the following equation:

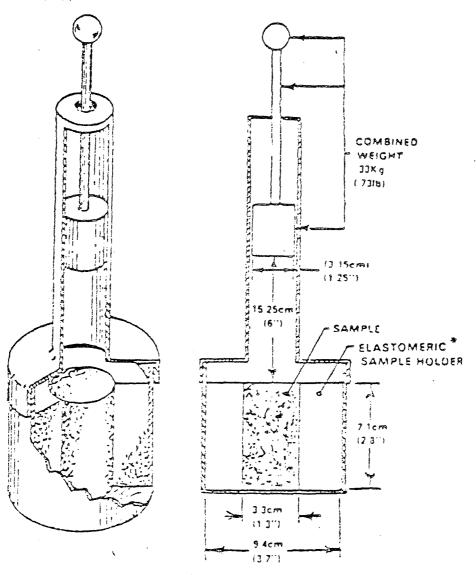
V = (20)(W) - 16(W)-A V = ml deionized water to be added W = weight in grams of solid charged to extractor A = ml of 0.5N acetic acid added during extraction

- 7. The material in the extractor shall be separated into its component liquid and solid phases as described under "Separation Procedure."
- 8. The liquids resulting from Steps 2 and 7 shall be combined. This combined liquid (or waste itself if it has less than 1/2 percent solids, as noted in Step 2) is the extract and shall be analyzed for the presence of any of the contaminants specified in Table I of 261.24 using the Analytical Procedures designated below.

Separation Procedure: Equipment: A filter holder, designated filtration media having a nominal pore size of 0.45 micrometers and capable of applying a 5.3 kg/cm^2 (75 psi) hysdrostatic pressure to the solution being filtered, shall be used. mixtures containing nonabsorptive solids, where separation can without 5.3 effected imposing kg/cm² pressure differential, vacuum filters employing a 0.45 micrometers filter media can be used. (For further guidance on filtration equipment or procedures see Methods for Evaulating Solid Waste, Chemical Methods" Physical/ incorporated reference, by §260.11). Procedure:

- Following manufacturer's directions, the filter unit shall be assembled with a filter bed consisting of a 0.45 micrometer For difficult or filter membrane. slow to filter mixtures a prefilter consisting of the following prefilters in increasing pore size (0.65 micrometer mebrane, fine glass prefilter, and coarse fiber glass fiber prefilter) can be used.
- (ii) The waste shall be poured into the filtration unit.
- (iii) The reservoir slowly pressurized until shall be liquid to flow from the begins filtrate outlet at which point pressure in the filter shall immediately lowered to 10-15 filtration shall be continued until liquid flow ceases.
- (iv) The pressure shall be increased stepwise in $10\mathrm{psi}$ increments to 75 psig and filtration continued unit flow ceases or the pressurizing gas begins to exit from the filtrate outlet.

Part 261, App. 11



*ELASTOMERIC SAMPLE HOLDER FARRICATED OF MATERIAL FIRM ENOUGH TO SUPPORT THE SAMPLE

Figure 1
COMPACTION TESTER

(v) The filter unit shall be depressurized, the solid material removed and weighed and then transferred to the extracton apparatus, or, in the case of final filtration prior to analysis, discarded. Do not allow the material retained on the filter pad to dry prior to weighing.

(vi) The liquid phase shall be stored at 4 C for subsequent use in Step 8.

This procedure is intended reult in separation of the "Free" liquid portion of the waste form any solid matter having a particle than 0.45 size greater micrometers. If the sample will filter, various other separation techniques can be used to aid in the filtration. described above, filtration is employed to speed up the filtration process. This does alter the nature of If liquid does separation. separate during filtration, waste can be centrifuged. separation occurs during centriugation, the liquid portion (centrifugate) is filtered through the 0.45 micrometers filter prior to becoming mixed with the liquid portion of the waste obtained from the initial filtration. will material that not pass the filter after through centrifugation is considered a solid and is extracted.

3. Structural Integrity Procedure: Equipment: A Structural Integrity tester having 3.18 cm (1.25 in.) diameter hammer weighing 0.33 kg (0.73 lbs.) and having a free fall of 15.24 cm (6 in.) shall be used. This device is available from Associated Design and Manufacturing Company, Alexandria, VA 22314, as Part No. 125, or it may be fabricated to meet the specifications shown in Figure 1.

Procedure

- (1) The sample holder shall be filled with the material to be tested. If the sample of waste is a large monolithic block, a portion shall be cut from the block having the dimensions of a 3.3 cm (1.3) diameter x 7.1 cm (2.8 in.) cylinder. For a fixated waste, samples may be cast in the form of a 3.3 cm (1.3 in.) diameter x 7.1 cm (2.8 in.) cylinder for purposes of conducting this test. In such cases, the waste may be allowed to cure for 30 days prior to further testing.
- (2) The sample holder shall be placed into the Structural Integrity Tester, then the hammer shall be raised to its maximum height and dropped. This shall be repeated fifteen times.
- (3) The material shall be removed from the sample holder, weighed, and transferred to the extraction apparatus for extraction.

Analytical Procedures for Analyzing Extract Contaminants

The test methods for analyzing the extract are as follows:

1. For arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, endrin, lindane methoxychlor, toxaphene, 24-D(2,4-dichlorophenoxyacetic or 245-TP (2,4,5-trichloropheno xypropionic acid): "Test methods for the Evaluation of Solid Physical/Chemical Methods' (incorporated by reference, 260.11).

2. (Reserved)

For all analyses, the methods of standard addition shall be used for quantification of species concentration.

Appendix III-Chemical Analysis Test Methods

Tables 1, 2, and 3 specify the appropriate analytical procedures in "Test described Methods Evaluating Solid Waste, Physical/ Chemical Methods" (incorporated reference, see 260.11), which shall be used to determine whether a sample contains a given Appendix VII or VIII toxic constituent.

Table 1 identifies each Appendix VII or VIII organic constituent along with the approved measurement method. Table 2 identifies the corresponding methods for inorganic species. Table 3 summarizes the contents of SW-846 and supplies specific section and method numbers for sampling and analysis methods.

Prior to final sampling and analysis method selection the analyst should consult the specific section or method described in SW-846 for additional guidance on which of the approved methods should be employed for a specific sample analysis situation.

TABLE 1.—ANALYSIS METHODS FOR OFGANIC CHEMICALS CONTAINED IN SW-846

	First action	Second econd
Compound	metrod(1)	method(s)
		8039, 8240
Acetorabile	8.03. 8.24	3030, 8240
Acrosses		5015, 8240
Acry'arride		5030, 5240
Acrylantale		0020, 8024
Bergere	3.10, 3.75	8100, 3250
Ferti(a)andracone	3.10, 0.25	210
State (1) there	8.10. 9.25	8100, 8250.
Ocheciathle a		210
?erzozichionda	812,325	8120, 9250
Serzy chlords	. 501, 612,	
24 (1 - 1 - 1	(3.74, 3.23	8122, 3250
Bergo(b)/funanthene	8.19, 8.25	8100, 8250.
	ī	ង្គា
SM2-chloroethoxymethern)	0.01, 5 24	5010, 2240
ביאון פינוארוי ברוביות בייניים בייניים בייניים בייניים בייניים	201, 224	3010, 3240
ביה(2-בייים בסבים און פרוש	J 5.07, 8.24	8010, 1240
Carpon ciguride	3.01, 824	1015, 8240
Carbon reprecisionds	3.01, 3.24	7010, 1240
Chierdane	3.04. 6.25	50AG, 8250
Chiemmied Coerandanie	.; 6⊾023,3.225	2020, 8250
Chiminated polymer	3.00, 125	9050, 1250
Chincacstalconyde.	201, 3.24	6010, 6240
C. CLOSSELSENS	3.01, 5.02.	2020, 8240
•	7.24	3010, 8240
Chorc'orm	8.01, 5.74	
Chlomore 2 and	್ಷ ಚಿ.011, ೮ ಸ.ಕ	3010, 3240
2.029000000	3.04, 3.25	3040, 1250
Characa .		8100, 8250,
-	i	310
Crecscia *	0.10, 2.25	8100, 8250
Crescr(s)		3C±0, 8250
Conness Accist		300, 5250
Cicliant Stationers)	3.01, 3.02.	
• • • • • • • • • • • • • • • • • • • •	1 212 325	0010, 8120

TABLE 1.—ANALYSIS METHODS FOR CREATING CHEMICALS CONTAINED IN SW_345—Continued ued

	First edition	Second
Compound	तम्बद्धाः सम्बद्धाः	ecitor
		נג וניסינישיה
Dichloree thane(s)		
Orchoromertzine	8.01, 6.24	5010, 5240
Dictionage encryscotic acid	3.01, 8.24 3.40, 8.25	8010, 8240
	0.40, 2.25	8150, 5250 3120, 5250
	6.12, 8.25	37.27. 52.29
5+0/10/10/10/10/	8.04, 3.25	6040, 8750
4.8-Donim-o-cressl.	8.09, 8.25	8090, 8250
2,4-Cinimite bens	8.04, 8.25	מבים מיינה
	5.09 8.25 8.09, 9.25	9C90 3250
Street Contract		5090' 8580
24 Ji 60-21	6.91, 8.02, 8.34	3015, 8240
Formskieryde	801, 524	
Former 104		8016, 0240
Forms and	8.06, 5.25 5.06, 8.25	8250
Healschior Healschiorubenzene	5.05 6.25	8090, 3250
MANAGE CONTRACTOR	9.12, 9.25	8120, 8250
Hexacrionoby: Mane	a12 925	3120, 8250
	8.12.5 25	8010, 5710
Mexicoloropycloperoxiems	# 12, 9 25	
Cana	5 03. 8 25	8060, 925G
stated artiyards	e 06, 8 25	3250
1		
Methanoi	8.01, 8 24	8010, 8240
Methand	5 32	6250
Mattryl ethyl kelone	8.01, 8 02,	
	8.24	8015, 8240
Methyl isobutyl kelone		
, , , , , , , , , , , , , , , , , , , ,	8.01, 8.0Z, 8.74	8015, 8240
Napitalene	8.10, 8 25	8100, 8250
"Lighten inone	8.08, 8 09,	
	5.25	8090, 8250
N.trocenzone	8.C9. 8.25	8000, 8250
12 Interpreted	8.04, 3.25 (3040, 8240
Paraidehyde (himer of scatal-	0.44, 3.23	03-0, 02-40
tehycel	8.01, 8.24	8015, 8240
Printachiorophenol.	5.C4, 3.25	5040, 8250
Preno	3.04, 3.25	3040, 8850
Photole.	3.22	3140
		9.40
Prosphorodithoic and esters	8.06, 8.09,	
	8.22	3140
Protestic analysinsh	8.06, 8 09,	
_	8 25	8000, 3250
7 Picoline	8.05, 8.09,	
i .	3.25	8090, 8250
- Section -	8.08, 8 09.	
<u>.</u>	3.25	8090, 8250
Tetrachiorobergene(s)	5.12, 8.25	8120, 3250
Totacolometraneis)	301, 0 24	0010, 8240
Tomacrioroschene	2.01, 3.24	8010, 8240 8040, 8250
Tatrachlorophenol	6.54, 8.24	8040, 8250
Yolvene	5.02, 9.24	50 20 , 8024
Constante	9.25	1250
Totuane disocyenate(s)	8.05, 8.25	9250
Total of the Total	2.03, 5.25	2020, 3750
Tachloroethare	8.01, 8.24	3010, 8240
	8.01, 8.24	8010, 8240
Trichlorofucromerhane	5.01, 2.24	3010, 8240
Tricaroson-nox(s)	8.04, 8.25	8040, 8250-
<u> </u>	i	
2.4 S.Tochlorocheneson	1	
2,4,5-Trichlorophenoxy pro-	940 000	
Trobannana	8 40, 8 25	8150, 9250
TO THE PROPERTY OF THE PARTY OF	301, 9.24	8010, P240
And cyonia	301, 324	8010, 8240
77178 6 43108	301, 824	2010, 2240
	R.GZ, 8 24	3020, 3240

[&]quot;Aralyne for phenanthisms and parapartie 4 these are invision in a ratio between 1.4 1 and 5.1 divinitial should be conscient present.

TABLE 2.—ANALYSIS METHODS FOR INCRGANIC CHEMICALS CONTAINED IN SW-846

Оптраила .	First edition (reduction)	िल्लाकार्य संदर्भकार संवर्धकार्य(इ)
Antonomy	8,50	7946, 7341
Trans	3.51	7750, 7761
Caram	2.52	7000, 701
Cadmun		וריון, מפירון
Charles		7190, 7191
Ciromane Hexavalente		7195, 7194
	9,547	7197
Leed	1.58	7420, 7421
	- 8.57	7470, 7471
Sector	2,58	7520, 7521
Gelerium	2.50	7740, 7731
Server	2.00	े रहरू, हस्त
"Andre		. 3115
" I'd Crare Halosen		: 302t
- (- ()	- /	غريد ،

TABLE 3.—SAMPLING AND ANALYSIS METHOUS CONTAINED IN SW-348-Continued

- 2.	Fret	officer	ביים אם הייים		
Tifle	Section No.	Method No.	Section !	Metros No	
averticistics of Hanardous Waste	1		2.1		
randality.	40	,	2 1.1		
Pensity Martens Closed-Cup Method	4.1	!	2.1.1	10	
Solution Closed-Cup Mathod	4.5		21.1	10	
Correspond	50	L(2.1.2		
Corposety Toward Stret	5.3	<u></u>	21.2	11	
Proctor		·	213		
Extramon Procesure Texically			2.1.4		
Eutration Processes Toxicity Test	هير 1, 7. 2 جيد				
Stetlind and Structural Integrity Test	7.4	}	214	13	
male Workup Tochriques			4.0		
inorganic Sechniques.	2.49		4.1	~	
Acid Digestion for Flattle AAS	∹ :		4.1	30 30	
And Design of Cit. Greene, or Wax.	8 49-9		4.1	33	
Executation Procedural for Cit. Greates or Wax	849-8			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Airs ne Danston	8.0	3 453	41 i	30	
Octang Techniques		3-31	4.2		
Seastably Funnel Liquid-Liquid Expaction		9.1	4.2	35	
Communa Louis-Dina Estraction	<u> </u>	9.01	42	. 35 35	
And Park Cinnus Extraction	3.0	8.84	• 42	25	
Sorried Economic Control	3.0	8.86	421	35	
Scoretion Estactor	a.o	8.85	4.2	25	
Semple Introduction Techniques	au		50		
Shattones	3.0	5.52	5.0	50	
Futo-end-1:30]	8.83	5.0	50	
rearie Assastest M-treas	3.0	0.50	7.0	<i>J</i> .	
Asimon, Fame AAS		8.50	7.0	74	
Anomalie Furnice AAS		8.50	7.0 !	74	
Arene Core AS	8.0	8,51	7.0	70	
Arsenz, Furnaza AAS	8.0		7.0	70	
Flore AAS	63	8.52	7.0	70	
Parum Furnece AAS	5.0	9 52	7.0	70	
Tanzaer, Floring AAS	ao	8.53	70	71	
Coomuni, Fumore AAS	8.0	2 53	7.0	71	
Chrometty Frame AAS	8.3	8.54	7.0	70	
Oroman, Furzos AAS	C.S	8.54	70	71	
Ordina Halavalant Coprociptation	8.0	8.545	7.0	71	
ביינות אפעשישיית Colombine	i 80	8 546	7.0	71	
Cyproxim Hexavalant Contation	8.0	8.547	7.0	71	
LANG FRITH AAS	8.0	8.56	7.0	74	
Lead, Furnace AAS	BO	8.58	7.0	74	
Nercury, Cod Vanor, Lored	8.0	8.57	7.0	74	
Mercury, Cold Victor, Sc41	8.0	9.57	7.0	74	
Yorker Thomas ALS	هه لي	i - 858-i	7.0	. 75	
TOTAL FUTACIONAL AAS	9.0	8.58	7.0	7:	
Terre NS	B.O	8.59	7.0	77	
There you Cannows Hydros AAS	8.0	8.59	7.0	77	
FLYK FLIDA AKS	0.5	8.50	7.0 [7/	
Pury Furnice AAS	8.0	8.60	7.0	77	
gane Anakhesi Methoda	مه لــ		8.0 }		
Ses Circonstographo Methods	ھ. ج		8.1		
Hotogenated Volatilia Oscanica			8.1	× 25	
Across openated Votable Crosnes	_; 35		8.1	E₹	
Aromatic Volable Organics	_	· - :	5.1	ex	
Acrollem, Acrylomotife, Acretonable	ao		21	20	
Princes.	ھة نــ		3.1	80	
AT ANIASH GOTHAN	<u>⊸, aa</u>	3.26	8.1	53	
Organications Personnes and PCDs	3.0		3.1	·8X	
Norwardnahos and Cycle Kalones	i . 3.0.	₹ 2.09 }		53	
Stytucke Armain Hydrocators	, 3.0				
Chouse at phatocapous	3.n				
Organizations Preliables			21		
Corred Herocom	-, 2.D				
Currenting and Commence and Control Co	, #.0		3.2 !		
GOOMS YOURS	3.0			. 67	
CCTMS Skim-Vota Ses, Pecked Column			5.2	8.	
GC/MS Sent-Volumen, Capitary		3.27	8.2	53	
High Princemence Louis Chrometographic Methods (HPLO)	3.0		8.3		
	, 5.0				
ra-tennia Anakhadi Mathoris	. 30		9.9		
Chanate, Total and Amenable to Object atom	8.0				
Total Crosine Hanger (TOX)	so	•			
Set cos	a.o	8.57	20 (
OH MASS PROPERTY.	5.0	5.21	20		
usiny Control/Quarty Assurance	10.0	 i	10.1		
שלי בייניים ביינים ביינים ביינים בייניים ביינים ביינים ביינים בייניים בייניים ביינים ביינים ביינים ביי	 10.0	<u> </u>	10.1		
Imparam Desga	_ا 10.0	<u> </u>	10.2		
Surp ng		<u></u>	10.3		
	:00	L	104		
Cota Marting	10.0		10.5		

Thre specific metals

TABLE 3.—SAMPLING AND ANALYSIS METHODS CONTAINED IN SW-846

	Fersi e	eci Son	Second	# 13.7°	
Title -	Se⇔on Na.	Method No.	Section No.	Vermod No.	
Samping of Solid Wastes	1.0		1.0		
Development of Appropriate Sampling Plans			- 7.1		
Requistory and Scientific Objectives			1.1.1		
Fundamental Statistical Concepts		AS-MACHINE CONTRACTOR	1.1.2		
Basic Statistical Strategyes.			113		
Smole Random Sampling			1.13.1		
: Sharifed Rendom Sampling		1	1.1.3.2		
Systematic Rendom Sampling		-			
Social Considerations			1.1		
Composite Samping			4444	_	
			1.1.41		
Cost and Lose Functions		<u> </u>	1.1.4.2		
			7.7.4.3		
molementation of Sampling Plan			1.2		
Selection of Samoling Equipment			1.2.1		
Composite Liquid Weste Samolin					
Wedned 80/36					
00000			121.3		
. That			1.21.4		
Print					
kr)#					
· Scoop and Shower					
Selection of Samole Contamera					
Frootsung and Storage of Samples			1.23		
Commerciation of Chain of Custody		·			
Safficia Laters		L			
Sample Sells			122		
Finis Leg Book					
Chamol-Outloop Hilliams					
Sample Analysis Requist Sheet.					
Sample Delivery to Laboratory			i		
Stroomy of Surrous		·	1	·	
Receipt and Lograng of Samole	20-12				
Accomment of Sample for Analysis.	Z0-13				
Same me Mathodology					
Contanes		·			
Tarks		<u></u>			
75314 P3-5		i3			
Loch's and Lincons		·-			
Masie Evandent Procoudes					

Appendices - IV, V, VI [Reserved]

Appendix VII—Basis for Listing Hazardous Waste

EPA :		. PA	i
ATRICH		hazard-	
ous	Hazardous constituents for which listed	WASIO	Hazardous constituents for which listed
vaste No.		Nio	
01	Tetrachioroethylene, inethylene chlonde trichlor-	K019	Elhylene dichloride, 1 t,1-Irichloroethane, 1,1,2
	pethylene, 1,1,1-trichloroetnane, carbon fetra-		trichloroethana, fetrachtoroethanas (1,1,2,2-te
	chloride, chlorinated fluorocarbons.		trachloroethane and 1.1.1,2 tetrachloroethane
02	Tetrachiorgethylene, methylene chloride, trichlor-		trichlornethylene, tetrachloroethylene, carbo
	oethylene, 1,1,1-inchioroethane, chiorobenzene,		Intrachloride chloroform, vinyi chiorida, vinyi
	1,1,2-inchioro-1,2,2-influoroethane, ortho-dich-		denn chlorida
	lorogenzene, inchiorollugromethane.	K020	Ethylene dichloride 11,1-trichloroethans, 1,1,2
03	N.A		furthfreoethane tetrachioroethanes (1,1,2,2-te
04	Crosols and cresylic acid, nitrobenzene.		trachincoethane and 1,1,1,2 letrachioroethane
05	Toluene, methyl ethyl ketone, carbon disulfide,		trichloroethylane, intrachkironthylane carbo
	isobutanoi, pyndine.		Intrachlerida chlorotorm, vinyi chloride, vinyi
C6	Cadmium, nexavalent chromium, nicket, cyanide		dena ithloride
	(complexed)	K021.	Animony cartion tetrachtoride, chloroform
07	Cysnide (seils).	×022	Phenot, lars improved aromatic hydrocarbons
XGB	Cyanion (saits).	¥021	Philhalic annythicles malesc annydrute
	Cyanucia (antia).	K024	Philhalic amydridic 1,4 daphthogianona
		K025	Meta distrotenzione 2,4 dinitritolgene
10	Cyande (saits)	₹026	Paraktohyda, pyrktinas, 2 pichtine
11	Cranine (satts)	1027	Tolunna diisocyanata Intoene 2 4 diamine
12 .	Cyanide (complexed).	K028	3,3.1 tris bloroninane, vinyt chloride
119 .	: Haxavaient chromium, cyanide (complexed).	K029	1
XO !	Pentachiorophenol, phunol, 2-chlorophenol, p-		i,2 dichlorpethane 1.1,1 trichlorpethane, vin- chitikide vinvirdinne chloride chloroform
	chioro-m-cresol, 2,4-dimethylphenyl, 2,4-dintro-	×o10	Hexachiniohomzone bevachiorobuladiene bin
	phenoi, irichiorophenois, tetrachiorophenois,		AChloropharia 1112 letrachinroginani
	2.4-desimpliandi, crasosota, chrysuna, naphina-		1.1.2.2 letrat htornetnane, ethytene dichtoride
	lone, moranthene, benzo(b)lluoranthene,	K 331	Arsanic
	benzotatpyrene, indeno(1,2,3-cdipyrene,	K012	Horsenlarocyciaparitadiana
	benz(a)anthracene, dibenz(a)anthracene, acen-	K033	
	aphinatore	- 134	Hakachtorocyclophotailiene
002	Hexavalent - bromium, léad		riexachlorocycloprintariene
003	hasavalent i fromium linad	÷ 735	Creosolic chrysene naphlhalene fluoranthan
004	нихауыны тыстып		: binnzoili) lliioranthine, henzo(a)pyrene
005	Hexavainni chromium lead		inthon(1.2,3-cd) pyrene, bilinzo(a)anthracene
006	Hexavalled Chromium		dibenzo(a)anihracene acanaphthalana
007	Cyanida (complexed) hexavalent chromium.	K0.76	Tolliene, phosphorodithioic and phosphorothioi
SOA	Husavatant Chlomium		ACICI ASINCS
	Chipiotorm, formerienyde, methylene chloride,	K037	Tolurne, presphorodithioic and prosphorothioi
0009	inethyl / hloride, paraldenyde, formic acid		acid esters
010	Chivatorm liximaldenyile methylene chlonde,	X038	Phorate formaldehyde, phosphorodilhioic an
(1) 10	country in tichous prinsiparity to formic ackt, chlor-		phosphorathinic acid listers
	with a property of the second content of the	K019	f Phosphorudithioic and phosphoroibioic acid
			asiara
(1) [1	Acrymouthe acatominia hydrocyanic acid	-040	i Phorate, tormaldenycle phosphorodithioic and
0313	Hypron vigosciolicus, acrytombrier, acetombrie		: Phosphorothioic acid esters
(1):4	As algorithme, acrylamide	*.04.t	Linzaphone
314	chickles tolicing chicknopanzana, folloana, benzo-	K042	Hexachinrobenzene onbo-dichinrobenzene
	en Saptita	K043	2.4-chcntorophenol, 2.6-dichtorophenol, 2.4.6-trich
016	Marka harabeanzene, berachtorobuladiene carbon		! !wophanoi
	terractionide, hexachiorouthane, perchlorouthy-	X044	NA
	terin	¥545 .	NA
017	Epichtixonydiin, chioroethers (bisichtoromethyt)	K046	LOAD
	, while and the (2-chloroethyr) ethers), inchloro-	A047	y cong ∴N A
	probana dichloroprupacois	×048	
018	t if the Improvinging trichtoroethylene, hazachloro-		Hexavalent chromitim, lead
	txitadiainii Daxachiorobarirana	2 H Q4H	HAXAVRIANI COYOMIUM, tead
		4.750	Mitavalant chigmium
		⊁ 05 t	a Hexavalent chromium, lead
		K052	Lead
		K060	: Сувлин, naplhatana phenotic compounds, a
		w	1 SHOKE
		5 · +5 ·	Haxevelant chromium lead, cadmium
		×(+59	Hexavelent chromium, lead, cadmium
			Merchica
		K073.,	Chloroform narron tetrachtorida, haxachbiroatr
			and trichloroninane, letrachtoroethylene, dich
			1 Wroathylene 1.1.2.2-(etrachiornethane
		K083	Aniline, diphenylamine, nilrobenzene, phenylene
			Cramine Cramine
			i owning

EPA hazard- ous waste No.	Hazardous constituents for which listed
K085	Benzene, dichiorobenzenes, Inchlorobenzenes, ta- trachiorobenzenes, pertlachiorobenzene, hex- achiorobenzene, benzul chlonde
K086	Lead, hexavalent chromum
KC87	Phenoi, naphfhaiene.
K093	Philhelic anhydnde, maleic anhydnde
	Phthalic anhydride.
K095	1,1,2-Inchloroethane, 1,1,1,2-Ietrachloroethane, 1,1,2,2-Ietrachloroethane
ко96	1.2-dichioroethane, 1.1.1-inchioroethane, 1.1.2- inchioroethane,
K097	Chlordane, heptachior
KD98	Toxaphene
K056	2,4-dichlorophenol, 2,4,6-trichlorophenol,
K100	Hexavalent chromium, lead, cadmium
K101	Arsonic
K102	Arsenic
K107	Aniline, nitrobenzane phenylanodiamine
	Aniline, benzene, diphenylamine, nitrobenzene, phenylenediamine,
K105	Benzene, monochlorobenzene, dichlorobenzenes, 2,4,5-inchlorophenoi,
K106 .	Mercury

N.A.—Waste is hazardous because it tails the lest for the characteristic of ignitability, corrosvity, or reactivity.

APPEROIX VIII INCOMENS Constituents

Acctoultrile (Ethica intelle) Acetophenous (Filanone, Uphenyl) 3-(alpha-AcetonyRighzyl) 4hydroxycoursarln and soits (Warfarln) 2 Acetylaminofluor, the (Acetamble, Northfluoren 2-yD) Acetyl chlocide (E1...asyl chloride) I Acetyl-2 thilometal (Acetsyalde, N taminothis conethyles Acrolein (2 Propound) Acrylamble (2 Progressor See) Acryloidfulle CaProcapadialler All documents Aldrin Cl.3.4.4.19 10 Hexaeldors 1.4.40.5. H.H. . 30 Mexistry from role exo-1.4.5.8-Dimethanoraphtholene) Allyl alcohol (2 Powers 1 of) Alusalmira phosphilie 4 Arabothlybenyl (f.f.Pelilohragh Eloutre) d-Amico-Lila, 2,8,25, air Lexichydro d-(Lydroxymethyl) \$4 methoxy.5 methylcurbannite ' achino(2,303, Hezrrolof 1,2alladoic 4.7 dlone, Cater) (MRomycla C) Gazlelno(231.3,41pyrcolot),2 a)Indole-4,4dione. Carolino B. (Carolinocarbonylloxylandhyll 4,1a,2,8,8a,8bbeautydco-8 weethoxy & nechy-) 6-(Arutnomethyl)-3 Isoxazolol (3) 210-Isoxazolone, 5-turnla omethy Do 4-Amhopy (1

diae (4-Pyzidlmeadne)

assitiote (141-1.2.5 (Pelozof-3 andre) Antime (Gergermufne) Actimony and compounds, N.O.S.* Aramite (Sulfurous acid, 2-chloroethyl-, 2-44-(1.1-dimethylethyl)oheoxyl-bsacthylethyleater) Amente and compounds, & O.S.* Acsenie neld (Orthoursenie weld) Assente pentoxide (Arsente IV) oxide) Assente trioxide (Assente (III) oxide) Cheuzenamine. 4.4 Astrandiae curboningldoylldal N.N-Dhoethyl-, monohydroculorde). Asserting (LeSertine, discessorinte (ester)) Pertura and compounds, (LO.S.* Haraim eyanide Beevicheerdine (3.4 Benzachdine) Benglichintlingereite (1.2-Benganthracene) Beazene (Cyclobexatriene) Benzenearsonle netd (Ar ame netd, phenyl-) Burrene, dichloromethyl- (Benzal chloride) Struzenethiof (Thiughenol) Beazidine (1.17 Blphenyll 4, Fdiantne) Benzofh Hugranthane (2,3 Benzothoranth-Benzof Hilluoranthene (7,8-Renzofhioranthcae) Benzof a lovrene (3.4-Henzoovrene) a Benzogulnone (1.4-Cyclonexadienedione) Benzotrichloride (Benzene, trichloromethyl-Benzyl chloride (Benzene, (chloromethyl)-) Beryllium and compounds, N.O.S. Bist2-chloroethoxylmethane (Ethane, 1,1)-(mrthylenebls(oxy)]bls(2-chloro-1) Bis(2-chloroethyl) ether (Ethone, 1,1)oxybist2-chloro-D N.N. Bis(2-chloroethyl)-2-naphthylantine (Chlorumphazine) His(2-chlorolsopropyl) ether (Propane, 2,2) oxybis12-chloro-D BistchloromethyD ether (Methane, oxybla(chloro-1) 85(2-ethylliexyl) phthalate (1.2-Henzeneillearboxylle acid, blst2-ethylhexyl) ester) Bromeacetone (2-Propanone, 1-bromo-) Biomomethane (Methyl bromide) 4 Bromophenyl phenyl ether (Henzene, 1bremo-4 phenoxy-) flracine (Strychnidin-10 ane, 2,3 dimethoxy-2 flutamone peroxide (Methyl ethyl ketone, peroxide) Hatyl tienzył pithalate flenzenedlearboxylle neld, butyl phenylmethyl ester) 2 sec Butyl-4,6-dinitrophenol (DMBP) (Phenol, 2,4-dinitro-6-(1-methylpropyl)-) Cadmium and compounds, N.O.S. Calchim chromate (Chromic acid, calcium sull)

Calclain cyanide Carbon disuifide (Carbon bisnifide) Carbon oxyflundde (Carbonyl fluoride) Chloral (Acetaldehyde, trichloro-) Chloramburtt (Butanide soid, 4-fblat2chlocoethyllamino (benzene-) Cintordane (alpha and gumma Isomera) (4.7-Methanoladan, 1.2.4.5.6.7.8.8 octachloro-3.4.7.7a-tetrahydro-) (alpha and gamma Isomers) Chlorinated benzenes, N.O.S.* Chlorinated ethane, N.O.S.* Chlorinated fluorocarbons, N.O.S.* Chloringted naphthalene, N.O.S. Cirlorinated phenol, N.O.S.* Chloroacetaldehyde (Acetaldehyde, chloro-) Chloroalkyl ethers, N.O.S.* p-Chloroantline (Betweensmine, 4-chloro-) Chlorobenzene (Benzene, chloro-) Chlorobenzilate (Benzenescette acid. 4. chloro-alohu-(4-chlorophenyl)-aluhahydroxy-, ethyl ester) p-Cliforo-m-cresol (Phenol, 4-chtoro-3methyl) 4-Chloro 2,3-epoxypropane (Oxfranc, 2-(c) laromethyl)-) 2-Chloroethyl vinyl ether (Ethene, (2 chlorocthoxy)-) Chloroform (Methane, trichloro-) Chloromethune (Methyl chloride) Chloromethyl methyl ether (Methane, chloramethoxy.) 2-Chloromophthalene (Unphthalene, betachloro-1 2-Chlorophenol (Phenol, o-chloro-) 1-(o-Chlorophenyl)thlouren (Thlourea, (2chlorophenyll-) 3-Chloropropionitrile (Propanenitrile, 3chloro-1 Chromium and compounds, N.O.S.* Chrysene (1.2-Benzpheaunthrene) Citrus red No. 2 (2-Naphthol, i-((2.5dimethoxyphenyl)azol-) Coal tars Copper cyanide Crecsote (Creosote, wood) Cresols (Cresylle acid) (Phenol, methyl-) Crotonaldchyde (2-Butenal) Cyauldes (soluble salts and complexes), N.O.S.* Cyanogen (Ethanedinitrile) Cyanogen bromlde (Bromine cyanide) Cyanogen chloride (Chlorine cyanide) Cycasia (beta-D-Glucopyranoside, (methyl-ONN-azoxy)methyl-) 2-Cyclohexyl-4,8-dinitrophenol (Phenol, 2. cyclohexyl-4.6-dinitro-1 Cyclophosphanilde (2H-1,3,2,-Oxazaphosphorine, {bls(2-chloroethyl)2mlno}-tetrahydro., 2-oxlde)

Dannomycln (5,12-Naphthacenedione, (85-

cls) 8 acetyl-10-1(3-amino-2,3,8-trideoxy)-

alpha-Liyxo-hexopyranosylloxyl-7,8,9,111tetrahydro-6,8,11-trlhydroxy-1-methox/

apecified) signifies those members of the general class not specifically listed by name in this appear

The abbreviation N.O.S. (not otherwise

DDD (Dichlorodiplienyldichloroethane) 1.1-dichloro-2,2-bis(p-chloro-CEthane. phenyl)-)

DDE (Ethylene, 1,1-dichloro-2,2-bls(4-chlorophenyl)-L

DDT (Dichlorodiphenyltrichloroethane) CEthane. 1.1.1-trichloro-2.2-bis(p-chlorophrayb)

(S-(2.3-dichloroully)) Diallatic dusopropyithlicarbaniate)

Dibonzin, hiscridine (1,2,5.6 Dibonzacridine) Dibenzin, Hacroline (1,2,7,8-Dibenzacridine) Dilienzia h fant firacene (1,2,5,6-Dibenzanthracerae)

711 Ditenzole,glearbazole (3.4,5,6-Dibenzearbazale)

Dibenzo[a,e]pyrene (1,2,4,5-Dibenzpyrene) Dibenzo[a,h]pyrene (1,2,5.6-Dibenzpyrene) Dibenzola, ilpyrene (1,2,7,8 Dibenzpyrene)

1,2-Dibramo 3-chloropropane (Propane, 1,2dibramo-3-chloro-)

1.2 Dibromoethane (Ethylene dibromide)

Dibromomethane (Methylene bromide) Dien butyl phthalate

Benzenedicarboxylic acid, dibutyl ester) a-Dichlorobenzene (Benzene, 1,2 dichloro) m-Dichtorobenzene (Benzene, 1.3-dichtoro) p Dichtorobenzene (Benzeite, 1.4 chcliforo-) Dichlarobenzene, NOS * (Benzene, dichbro, N.O.S *)

3.3 Dichlorobenzidine (11.1 Bipticnyt) 4.45 dlamine, 3,3'-dichloro-)

1,4 Dichloro-2-butnne (2-Bulenn, 1,4-dich-

Dichlorodiffuoromethane (Methane, dichlorodiffinera-)

1,1-Dichlorocthane (Ethylldene dichloride)

1,2-Dichloroethane (Ethylene dichloride) toxas-1,2-Dichloroethene (1,2-Dichlarorthy-

Dichloroethylene, N.O.S.* (Ethene, dichloro-, N.O.S.*)

1,1-Dichloroethylene (Ethene, 1,1-dichloro-) Dichloromethane (Methylene chloride)

2.4-Dichlorophenal (Phenal, 2.4-dichlora-) 2.8 Dichiorophenol (Phenol, 2,6-dichioro-)

2.4 Dichlorophenoxyacetle acid (2,4-D), salts and esters (Acetic acid, 2,4-dichlorophenoxy., salts and esters)

Dichlorophenylarsine (Phenyl dichloroarship)

Dichloropropane, N.O.S.* (Propane, dichluro-, N.O.S.*)

1,2 Dichloropropane (Propylene dichloride) Dichloropropanol, N.O.S.* (Propanol, dichlore-, N.O S.*)

Dichloropropene, N.O.S.* (Propene, dich-Ioro-, N.O.S.*)

1,3-Dichloropropene (1-Propene, 1,3-dich-Jara-)

Litelarin (1,2,3,4,10,10-hexachloro-8,7-epoxy-1,4,4...5,6,7,8,6s-octs-liydro-endo.exo-1,4:5,6-Dimethanonaphthalene)

1.2:3.4 Diepoxybutane (2.2 Bioxirane) Diethylarsine (Arsine, diethyl-)

N.W Diethylhydrazine Hydrazine,

O.O.Diethyl S-methyl ester of phosphoredithloic acid (Phosphorodithioic acid, O.O. diethyl S-methyl ester

O.O.Diethylphosphoric acid, 'O.p.nltrophenyl ester (Phosphoric acid, diethyl pnitrophenyl ester)

Diethyl phthalate (1.2-Benzenedicarboxylic acid, dicthyl ester)

O.O.Diethyl O-2-pyrazinyl phosphoroth loate (Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester

Diethyistilbestmol (4.4'-Stilbenedial, alpha, alpha-dlethyl, bistdihydrogen phus phale, (E)-)

Dihydrosafrole (Benzene, 1,2-methylene dioxy-4-propyl-)

3.4-Dihydroxy-alpha-(methylamino)methyl benzyl alcohol (1,2-Benzenediol, 4-11-liydroxy-2-(methylamino)ethyll-)

Disapropylfhiorophosphate (DPP) (Plus phorufluoridic acid, bis(1-methyle(hyl) ester)

Dimethoate (Phosphorodithioic acid, O.O. dimethyl S42 (methylamino)-2-oxocthyll ester

3.3 Dimethoxybenzidine ((1,1'-Biplienyt): 4,4 dramine, 3-3 dimethoxy-)

p-Dimethylaminaazohenzene (Benzenamine, N.N-dimethyl 4-(phenylazo)-)

7.12-Dimethylbenzlalanthracene (1.2-Benzanthracene, 7.12-dimethyl-)

3.1 Dimethyltienzidine ([1,1'-Blphenyl]-4.4) diamine, 3,3'-dimethyl-)

Dimethylcarbamoyl chloride (Carbamoyl chlaride, dimethyl)

1.1 Diniethylhydrazine (Hydrazine, 1,1-dimethyl.)

1.2-Dimethylhydrazine (Hydrazine, 1,2-dimethyle)

3.3-Dimethyl-1-(methylthlo)-2-butanone. O-(methylamino) carbonylloxime (Thio-(xonal

alpim, alpha-Dimethylphenethylemine (Ethamanine, 1,1-dbnethyl-2-phenyl-)

2.4 Dimethylphenol (Phenol, 2.4 dlmethyl-) phthalate Dimethyl Benzenedicarboxylle acid, dimethyl ester)

Dimethyl sulfale (Sulfuric acid, dimethyl ester)

Dinitrobenzene, N.O.S.* (Benzene, dinitro-, N O.S.*)

4.6-Dinitro-o-cresol and salts (Phenol, 2.4diditro-6-methyl-, and salts)

2,4-Dinitrophenol (Phenol, 2,4-dinitro-)

2.4-Dinitrotoluene (Benzene, 1-methyl-2.4dirittro-)

2.6-Dinitrotoluene (Benzene, 1-methyl-2.6dinitro-) (1.2-

DI-n-octyl phthalate Benzenedicarboxylle acid, dioctyl ester) 1,4-Dlokung (1,4-Disthylene oxide)

Diphenylamine (Benzenandne, N-phenyl-) 1,2-Diphercylhydrazine (Hydrazine, 1,2-diphenyl-)

Di-n-propyinitrosamine (N-Nitroso-di-n-pro-

Disulfoton (O,O-dlethyl (ethylthlo)etnyl] phosphorodithicate) 2.4-Dithiobluret (Thioimidedicarbonie diamide)

Endosulfan 15-Norbornene, 2,3-dimethanol, 1.4.5.6.7.7-hexachloro-, cyclic sulfite)

Endrin and metabolites (1,2,3,4,10,10-hex achioro-6,7-epoxy-1,4,4a,5,6,7,8,8aoctaliydro-endo.endo-1.4:5.8-

dimethanonaphthalene, and metabolites) Ethyl carbamate (Urethan) (Carbamic neld. ethyl ester)

Ethyl cyanide (propanenitrite)

Ethylenebisdithiocarbamic acid, salts and esters (1.2-Ethanedrylbiscarbamodithioic acid, salts and esters

Ethyleneimine (Aziridine) Ethylene axide (Oxirane)

Ethylenethiourea (2-Imidazolidinethione) Ethyl methacrytate (2-Propenous acid, 2-

methyl, ethyl ester) Ethyl methanesulfonate (Methanesulfonic

acid, clipyl ester) Plnaranthene (Benzol J.k Ifhrorene)

Pluorine 2 Fluoroacetamide (Acetamide, 2-fluoro-1

Phoroacetic acid, sodium salt (Acetic acid, thioro, sodnim salti

Pormaldehyde (Methylene oxide) Formie acid (Methanoic acid)

Glycidylaldehyde (I-Propanol-2,3-epoxy) Ilulomethane, N.O.S.*

Heptachlor (4,7-Methano-1H-indene. 1.4.5,6.7,8.8-heptachloro-3a,4.7.7ahttrahydro-)

lleptachlor epoxide (alpha, beta, and gamma isomers) (4.7-Methano-1H-indene. 1.4.5,6,7,8,8-heptachloro-2,3-cpoxy-3a,4,7,7letraliydro-, alpha, beta, and gamma iso-

Hexachlorobenzene (Benzene, hexachloro-) Hexachlorobutadiene (1,3-Butadiene. 1.1,2,3,4,4-hexachloro-)

Hexachlorocyclohexane (all Isomers) (Lindane and Isomers)

Hexachlorocyclopentadlene (1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-)

Hexachloroethane (Ethane, 1,1,1,2,2,2-hexuchloro.)

1.2.3.4.10.10-Hexachioro-1,4.4a,5.8.8ahexahydro-1.4.5.8-endo.endodimethanonaphthalene illexachlorohexahydro-endo,endodimethanonaphthalene)

liexachlorophene (2,2'-Methylenebis(3,4,6-(richiorophenol))

llexuchloropropene (1-Propene, 1,1,2,3,3,3hexachloro.)

Hexaethyl tetraphosphate (Tetraphosphoric acid, hexaethyl ester) Hydrazine (Diamine)

Hydrocynnic acid (Hydrogen cyanide) Hydrofluoric acid (Hydrogen fluoride) Hydrogen sulfide (Sulfur hydride)

liviroxydinethylarsine oxide (Cacodylic

Indenot1,2,3-edipyrene (1,10-(1,2phonylene)pyrene) Iodomethane (Methyl fodfde) Iron dextran (Perric dextran) Isocyamic acid methyl ester (Methyl 180cyanaie) isobutyl alcohol (I-Propanol, Z-methyl-) Isosafrole (Benzene, 1.2-methylenedloxy-4allyl-)

Kepone (Deckehlorooctahydro-1,3,4-Mothano-211-cyclobuta[ed]pentalen-2-one) Lasiocarpine (2-Butenoic acid, 2-methyl-, 4-

(C2.3-dihydroxy 2-(1-methoxyethyl)-3methyl-1-oxobntoxy)methyll-2,3,5,7a. tetraliydro-1H-pyrrolizin-1-yl ester) Lend and compounds, N.O.S.*

Lead acetate (Acetic acid, lead salt)

Lead phosphate (Phosphoric acid, lead salt) Lead subarriate (Lead, bistacetato-Offetrallydroxytri-)

Malele antiydride (2,5-Furandlone) Mateic hydrazide (1,2-Dlhydro-3,6-pyrldazin-

calloget

Mahananitrile (Propanediaitrile) Melphalan (Alanine, 3-1p-bls(2chluroethyllaminu lphenyl, L.)

Mercury fulnimate (Pulminte acid, mercury salt)

Mercury and compounds, N.O.S.*

Methaerylonitrile C2-Propenenttrile, methyle)

McChaucthiol (Thiomethanol)

Methanyrilene Pyridine, 2-1(2dimethylamino)ethyl 1-2 thenylamino-) (Acetimidle Methologyl acid.

[(methylcarbamoyl)oxy]thlo-, methyl ester

Methoxychlor (Ethane, 1,1,1-trichlora-2,2'bis(p-niethoxyphenyl)-)

2-Methylazirldine (1,2-Propylenlmine) 3-Methylcholanthrene

(Benzillaceanthrylene. 1,2-dlhydro-3methyl-)

Methyl chlorocarbonate (Carbonochlorldic acid, methyl ester)

4.4'-Methylenebis(2-chloroanlline) (Benzenamine, 4.4'-methylenebis-(2-chloro-) Methyl ethyl ketone (MEK) (2-Butanone)

Methyl hydrazine (Hydrazine, methyl-) 2-Methyllactonitrile (Propanenitrile, 2-hy-

droxy-2-methyl-) Methyl methacrylate (2-Propenole acid, 2methyl-, methyl ester)

Methyl methanesulfonate (Methanesulfonic acid, methyl ester)

2-Methyl-2-(methylthio)propionaldehyde-a-(methylcarbonyl) oxime (Propanal, 2methyl-2-(methylth(o)-. [(methylamino;carbonyl]oxlme)

N-Methyl-N'-nitro-N-nitrosoguanidine (Quantidine, N-nitroso-N-methyl-N'-nitro-)

Mathyl parathion (O,O-dimethyl O-(4-nitro phenyl) phosphorothicate) Methylthlouracil (4-1H-Pyrimidinone, 2,3

dlhydro-6-methyl-2-thloxo-4. Minterd was (Suffice his/2-chlorosthol)

methyld

Mainthalene (1.4-Naphthalene-1.1 Austathornthone d'antel 1 Nohthylamine talpha Naphthylamine) 2 Maid thylamine (bela-Naphthylamine) 1 Naphthyl 2 thionrea (Thourea, 1 naphthadeast) referred and compounds, N.O.S.* Nakel carbonyl (Nickel telmourbonyl) Mickel cynnide (Nickel (II) cyaulde) Nicotine and saits (Pyridine, (S)-3-(1methyl-2-nyrrolidinyl), and salts) Mitrie oxide (Nilragen (II) axide) p Eltroundine (Benzemmne, 4 miro-) lilly obergine (Benzene, mtro-) Nitrogen dioxide (Nitrogen (IV) oxide) Nillingen mustard and hydrochloride salt (Fihanamine, 2-chloro, N12 chloroethyl)-H methyls, and hydrochloride saft) Edtrogen mustard N Oxide and hydrochloride salt (Elliamodue, 2 chicco., N (2chloroethyi)-N-methyl-, and hydrochloride sait) Nitroglycerine (1,2,3-Propanetrial, trini-Leater 4 Nitrophenot (Phenot, 4 nitro) 4-Nitrammnotine-Loxide (Quinomie, 4-nitro-Loxble) attrosamine, N.O.S. M-Mitrosigil n-butylamine - Cl. Hutananine, N hatyl N nitroso-) M butrasodictionnolomine (Ethasol, 2.2) Cultrosofintnoybls () A Mitro-odiethylamine (Ethan-mone N ethyl N nltroso-) N Mitrosodimethylamine. (Dimethyliatro-a native) M-Nitroso-N-ethyluren (Carbamide, N ethyl-M-nltroso-) N Nitrosomethylethylandae - (Ethan.anine, N methyl-N-nltrns.0-) N Mirroso Namethyburea (Carbamale, N. methyl-N altroso-t N-Nitroso-N-methylorethine (Cartainle acld, methylnitroso-, ethyl ester) N-Mitrosomethylvlaylamme (Ethealamme, Nancthyl-N-nitrosn-) N-Mitrosomorpholine (Morpholine, N-nitimeo-) M-Nitresemornicotine (Hornicatine, N-Contain N-filt escaperidine (Pyridine, hexabydro-, M-micoso-) Alkescopyrrolldine (Pyrrole, tetrahydros, N. rittionor) 11-11 trasosar costne (Sarcosine, Nautroan-) 5 751ro o tahildine (Benzenamme, 2 methyl-5 mitro Columethylpycophosphoramide (Diphosphoramide, octamethyld Ostalum Letroxide (Osmina (VIII) ovide) TOx :bleyelo(2.2.1)heptane-2.3-dicarboxylle acid (Endothal) Paralitchyde (1.3.5 Trio tene. 2.1.0 trl-

Car official (Phosphorothide acid, 0.0) Budget O to entrophorothisms

- Pentachlorobenzene (Benzene, sentachloro) Pentachlorpethane (Ethane, pentachloro-) Pentachloromtrobenzene (PUNB) (Benzene, pentachdoronitro-) Pentachlorophenol (Phenol, pentachloro-) (Acctamble, Ned ethory Phenacetta. phenyl)-) Phenot (Benzene, hydroxy-) Phenylenedlamine (Benzenedlamine) Phenylmercury acetide (Mercury, acetatophinyle) N Phenylthourea (Thlourea, phenyl-) Phosgene (Carbonyl chloride) Phosphine (Hydrogen phosphule) Phosphoroalithioic acid. O.O diethyl S. Rethylthio)methyll ester (l'horate) Phospharothioic acid, O.O dimethyl O lp-Gillmethylamino)sulfonyl)phenyll ester (Pamphur) Phthalic acid esters, N.O.S.* (Benzene, 1.2dicarboxylle acid, esters, N.O.S.*) Phillialic anlivdride 11.2 Henzenethearboxylle acid anhydride) 2 Picatine (Pyratthe, 2-methyl-) Potvehlormated biphen#I. N.O.S.* Potassium cynnide. Potassium silver cyunide (Argenlate(1-), dia viana , patazanim) Pronamate 43.5 Dichloro N-Cl.1 dimethyl-2propynyl (benzamide) 1.3 Propage sultone (1,2 Oxathuolane, 2,2dimented a Propylamue (1-Propantime) Propylithourard N.N. bis(2) attradecamethylenediamine. a htorobenzyD-, diffydrochloride) 2 Propyn 1 of (Propargyl alcohol) Pyroline Reserving (Yohlmban-16-carboxylle weld, 11.17-dimethoxy-18-(c3.4.5truncthoxybenzoyDoxyl-, methyl ester) Resuremol (1,3-Benzenediol) Sucrearm and salts (1.2-Benzolsothlazolln-3one, 1.1 dioxide, and salts) Safrole (Benzene, 1.2-methylenedloxy-4atlyt-) Selenions acid (Selenhim dioxide) Selenium and compounds, N.O.S.* Selenium sulfide (Sulfur selenide) Selenourea (Carbamimitoselenole actd) Silver and compounds, N.O.S.* Silver cyanide Sodium evanide Streptozotocia (D-Glucopyranose, 2-deoxy-2 t3 methyl-3-nltrosmireido)-) Stronthun sulfide Strychnine and salts (StryclinIdin-10-one, and salts) (Benzene, 1.2.4.5 Tetrachlorobenzene 1.2.4.5-tetrachloro-) 2,3,7,8 Tetrachiorodibenzo-p-dloxin (TCDD) (Dibenzo e diaxin, 2.3.7.8 tetrachloro-) Tetrachloroethane, N.O.S.º (Ethane, tetractilors, N.O S.*)
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PART 262-STANDARDS APPLICABLE TO GENERATORS OF HAZARDOUS WASTE

Subpart A-General

Section

- 252.10 Purpose, scope, and applica b!lity.
- 262.11 Hazardous Waste determination.
- 202.12 EPA identification numbers.

Subpart B-The Manifest

- 262.20 General requirements.
- 262.21 Acquisition of manifests.
- 202.22 Number of copies.
- 262.23 Use of the manifest.

Subpart C-Pre-Transport Requirements

- 202.00 Fackaging.
- 202.31 mabeling.
- 202.32 Marking.
- 262.33 Placarding.
- 262.34 Accumulation time.

Subpart D-Recordkeeping and Reporting

- 262.40 Recordkeeping.
- 202.41 Annual reporting.
- 262.42 Exception reporting.
- 262.43 Additional reporting.

Subpart E-Special Conditions

- 262.50 International shipments.
- 262.51 Farmers.

Appendix-I

Annual Report (DNREC Form 8700-13).

Appendix II - Uniform Hazardous Waste Manifest (DNREC Forms 8700-22 and 8700-22A and Instructions).

Subpart A-General

- §262.10 Purpose, scope, and applicability.
- (a) These regulations establish standards for generators of hazardous waste.

- (b) A generator who treats, stores, or disposes of hazardous waste on-site must only comply with the following sections of this Part with respect to that waste: Section 262.11 for determining whether or not he has hazardous waste, §262.12 obtaining an EPA identification number, §262.34 for accumulation of hazardous waste, §262.40(c) and (d) §262.43 Recordkeeping, if additional reporting and applicable, §262.51 for farmers.
- (c) Any person who imports hazardous waste into the State of Delaware must comply with the standards applicable to generators established in this Part.
- (d) A farmer who generates waste pesticides which are hazardous waste and who complies with all of the requirements of §262.51 is not required to comply with other standards in this Part or Parts 122, 264, or 265 with respect to such pesticides.
- (e) A person who generates a hazardous waste as defined by Part 261 is subject to the compliance requirements and penalties prescribed in 7 Del. C. 6309 if he does not comply with the requirements of this Part.
- (f) An owner or operator who initiates a shipment of hazardous waste from a treatment, storage, or disposal facility must comply with the generator standards established in this Part. (Note: The provisions of §262.34 are applicable to the on-site accumulation hazardous of Therefore, the waste by generators. provisions of §262.34 only apply to owners or operators who are shipping hazardous waste which they generated at that facility.)

Note: A generator who treats, stores, or disposes of hazardous waste on-site must comply with the applicable standards and permit requirements set forth in Parts 264, 265, and Part 122.

§262.11 Hazardous waste determination.

A person who generates a solid waste, as defined in §261.2, must determine if that waste is a hazardous waste using the following method:

- (a) He should first determine if the waste is excluded from regulation under §261.4.
- (b) He must then determine if the waste is listed as a hazardous waste in Subpart D of Part 261.

Note: Even if the waste is listed, the generator still has an opportunity under Part 260 Subpart C to demonstrate to the Secretary that the waste from his particular facility or operation is not a hazardous waste.

- (c) If the waste is not listed as a hazardous waste in Subpart D of Part 261, he must determine whether the waste is identified in Subpart C of Part 261 by either.
- (1) Testing the waste according to the methods set forth in Subpart C of Part 261, or according to an equivalent method approved by the Secretary under Part 260 Subpart C; or
- (2) Applying knowledge of the hazard characteristic of the waste in light of the materials or the processes used.

§262.12 EPA identification numbers.

- (a) A generator must not treat, store, dispose of, transport, or offer for transportation, hazardous waste without having received an EPA identification number from the Secretary.
- (b) Ą generator who has not received an EPA identification number may obtain one by applying to the "State of Secretary using Delaware of Hazardous Notification Waste Activity" form. Upon receiving the request, the Secretary will assign an CPA identification number to teretator.

(c) A generator must not offer his hazardous waste to transporters or to treatment, storage, or disposal facilities that have not received an EPA identification number.

Subpart B-The Manifest

§262.20 General requirements.

- (a) A generator who transports, or offers for transportation, hazardous waste for off-site treatment, storage, or disposal must prepare a manifest, using forms supplied by the Department, before transporting the waste off-site.
- (b) A generator must designate on the manifest one facility which is permitted to handle the waste described on the manifest.
- (c) Agenerator may also manifest the designate oπ one alternate facility which is permitted to handle his waste in the event an emergency prevents delivery of the waste to the primary designated facility.
- (d) If the transporter is unable to deliver the hazardous waste to the designated facility or the alternate facility, the generator must either designate another facility or instruct the transporter to return the waste.

§262.21 Acquisition of Manifests.

A generator must use the manifest form supplied by the Department.

§262.22 Number of Copies

The manifest consists of the number of copies which provide a copy for each transporter, the generator state, the facility state and the copy which is mailed from the facility to the generator. This process is discussed in detail in the instructions for manifest preparation Appendix II of this Part.

NOTE: Photocopies of this form will be necessary for the generator and facility to meet the requirements of 262.23(a)(3); 264.71(a)(5), or 265.71(a)(5); or if necessary 262.23(c) & (d).

§262.23 Use of the manifest.

(a) The generator must:

- (1) Sign the manifest certification by hand; and
- (2) Obtain the handwritten signature of the initial transporter and date of acceptance on the manifest; and
- (3) Retain one copy in accordance with 262.40(a).
- (4) Send a copy of the manifest to the State in which the Generator is located and to the State in which the facility is located.
- (b) The generator must give the transporter the remaining copies of the manifest in accordance with instructions on the uniform manifest form.
- (c) For shipments of hazardous waste within the United States solely by water (bulk shipments only), the generator must send three copies of the manifest dated and signed in accordance with this section to the owner or operator of the designated facility or the last water (bulk shipment) transporter to handle the waste in the United States if exported by water. Copies of the manifest are not required for each transporter.
- (d) For rail shipments of hazardous waste within the United States which originate at the site of generation, the generator must send at least three copies of the manifest dated and signed in accordance with this section to:
- (i) The next non-rail
 transporter, if any; or

- (ii) The designated facility if transported solely by rail; or
- (iii) The last rail transporter to handle the waste in the United States if exported by rail.

NOTE: See §§263.20(e) and (f) for special provisions for rail or water (bulk shipment) transporters.

Subpart C-Pre-Transport Requirements

§262.30 Packaging.

Before transporting hazardous waste or offering hazardous waste for transportation off-site, a generator must package the waste in accordance with the applicable Department of Trans portation regulations on packaging under 49 CFR Parts 173, 178, and 179.

§262.31 Labeling.

Before transporting or offering hazardous waste for transportation offsite, a generator must label each package in accordance with the applicable Department of Transportation regulations on hazardous materials under 49 CFR Part 172.

§262.32 Marking.

- (a) Before transporting or offering hazardous waste for transportation off-site, a generator must mark each package of hazardous waste in accordance with the applicable Department of Transportation regulations on hazardous materials under 49 CFR Part 172;
- (b) Before transporting hazardous waste or offering hazardous waste for transportation off-site, a generator must mark each container of 110 gallons or less used in such transportation with the following words and information displayed in accordance with the requirements of 49 CFR 172.304:

HAZARDOUS WASTE--Federal Law Prohibits Improper Disposal. If found, contact the nearest police or public safety authority or the U.S. Environmental Protection Agency.

Generator's Name and Address

§262.33 Placarding.

Before transporting hazardous waste or offering hazardous waste for transportation off-site, a generator must placard or offer the initial transporter the appropriate placards according to Department of Transportation regulations for hazardous materials under 49 CFR Part 172, Subpart F.

§262.34 Accumulation time.

- (a) A generator may accumulate hazardous waste ontsite for 90 days or less without a permit or without having interim status provided that:
- (1) The waste is placed in containers and the generator complies with Subpart I of Part 265, or the waste is placed in tanks and the generator complies with Subpart J of Part 265 except §265.193;
- (2) The date upon which each period of accumulation begins is clearly marked and visible for inspection on each container;
- (3) While being accumulated on-site, each container and tank is labeled or marked clearly with the words, "Hazardous Waste"; and
- (4) The generator complies with the requirements for owners or operators in Subparts C and D in Part 265 and with §265.16.
- (b) A generator who accumulates hazardous waste for more than 90 days is an operator of a storage facility and is subject to the requirements of Part 264 and 265 and the permit requirement of Part 122 unless he has been granted an extension to the 10-may period. Such extension may be tranted by DNREC if bazardous wastes

must remain on-site for longer than 90 days due to unforeseen, temporary, and uncontrollable circumstances. An extension of up to 30 days may be granted at the discretion of the Secretary on a case-by-case basis.

Subpart D-Recordkeeping and Reporting

§262.40 Recordkeeping.

- (a) A generator must keep a copy of each manifest signed in accordance with §262.23(a) for three years or until he receives a signed copy from the designated facility which received the waste. This signed copy must be retained as a record for at least three years from the date the waste was accepted by the initial transporter.
- (b) A generator must keep a copy of each Annual Report and Exception Report for a period of at least three years from the due date of the report (March 1).
- (c) A generator must keep records of any test results, waste analyses, or other determinations made in accordance with §262.11 for at least three years from the date that the waste was last sent to on-site or offsite treatment, storage, or disposal.
- (d) The periods or retention referred to in this section are extended automatically during the course of any unresolved enforcement action regarding the regulated activity or as requested by the Secretary.

§252.41 Annual reporting.

- (a) A generator who ships his hazardous waste off-site must submit Annual Reports:
- (1) On DNREC forms 8700-13 and 8700-13A according to the instructions on the form (See the appendix to this Part):
- (2) To the State of Colaware, Department of Natural Coscurens and Environmental Control.

- (3) No later than March I for the preceding calendar year.
- (b) Any generator who treats, stores, or disposes of hazardous waste on-site must submit an Annual Report covering provisions of Parts 264, 265 and 122.

§262.42 Exception reporting

- (a) A generator who does not receive a copy of the manifest with the hand written signature of the owner or operator of the designated facility within thirty-five (35) days of the date the waste was accepted by the initial transporter must contact the transporter and/or the owner or operator of the designated facility to determine the status of the hazardous waste, and If It has not been delivered the generator must identify the shipment and report it by telephone to the State in which the shipment originated.
- (b) A generator must submit an Exception Report to the DNREC if he received a copy of has not the manifest/shipping paper with the handwritten signature of the owner or operator of the designated facility within 45 days of the date the waste accepted bу the generator must transporter and the also notify the State in which the manifest-designated facility located and the State to which the shipment may have been delivered or to EPA in the case of unauthorized states.

The Exception Report must include:

- (1) A legible copy of the manifest for which the generator does not have confirmation of delivery;
- (2) A cover letter signed by the generator or his authorized representative explaining the efforts taken to locate the hazardous waste and the results of those efforts.

§262.43 Additional reporting.

The Secretary, as he deems necessary under 7 Del. C. 6305(a)(10), may require generators to furnish additional reports concerning the quantities and disposition of wastes identified or listed in Part 261.

Subpart E-Special Conditions

§262.50 International shipments.

- (a) Any person who exports hazardous waste to a foreign country or imports hazardous waste from a foreign country into the United States must comply with the requirements of this Part and with the special requirements of this section.
- (b) When shipping hazardous waste outside the United States, the generator must:
- (1) Notify the Administrator and Secretary in writing four (4) weeks before the initial shipment of hazardous waste to each country in each calendar year;
- (i) The waste must be identified by its EPA hazardous waste identification number and its DOT shipping description;
- (ii) The name and address of the foreign consignee must be included in this notice;
- (iii) These notices must Office of International be sent to: Activities | A-106, United States Environmental Protection Agency. Washington, D. C. 20460, Department of Natural Resources and Evnironmental Control, P. O. Box 1401, Dover, Delaware 19903.
- (2) Require that the foreign consignee confirm the delivery of the waste in the foreign country. A copy of the manifest signed by the foreign consignee may be used for this purpose:
- (3) Meet the requirements under $\S 262.20$ (a) and $\S 262.21$ for the manifest except that:

- (i) In place of the name, address, and EPA identification number of the designated facility, the name and address of the foreign consignce must be used;
- (ii) The generator must identify the point of departure from the United States through which the waste must travel before entering a Toreign country.
- (c) A generator must file an Exception Report, if:
- (1) He has not received a copy of the manifest signed by the transporter stating the date and place of departure from the United States within 45 days from the date it was accepted by the initial transporter; or
- (2) Within 90 days from the date the waste was accepted by the initial transporter, the generator has not received written confirmation from the foreign consignee that the hezardous waste was received.
- (d) When importing hazardous waste a person must meet all the requirements specified in $\S 262.20$ (a) and $\S 262.21$ for the manifest except that:
- (1) In place of the generator's name, address and EPA identification number, the name and address of the foreign generator and the importer's name, address and EPA identification number must be used.
- (2) In place of the generator's signature on the certification statement, the U.S. importer or his agent must sign and date the certification and obtain the signature of the initial transporter.

§262.51 Farmers.

A farmer disposing of waste pesticides from his own use which are bazardous wastes is not required to comply with the standards in this Part other standards in Parts 122, 264

or 265 for those wastes provided he triple rinses each emptied pesticide container in accordance with $\S261.7(b)(3)$ and disposes of the pesticide residues on his own farm in a manner consistent with the disposal instructions on the pesticide label.

(Appendix I - Annual Report - (DNREC Form 8700-13))

APPENDIX I -FORM-ANNUAL REPORT (FORM 8700-13)

DNREC	HAZAROOUS WASTE REPORT	I. TYPE OF HAZARDOUS WASTE REPORT
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		THIS WEPORY IS FOR THE YEAR ENGING DEC.31
		PART B: PAGILITY ANNUAL REPORT
PLEASI	FPLACE LABEL IN THIS SPACE	THIS REPORT FOR YEAR EMOING DEC. 31.
		PART C: UNMANIFESTED WASTE REPORT
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comply under consisty	of faw that I have personally examined and am I three individuals immediately responsible for	amiliar with the informetion submitted in this and all attached documents, and the braining the information, I believe that the submitted information is true, socured if take information, including the possibility of line and imprisormant.

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General Instructions, Hazardous Waste Report (DNREC Form 8700-13)

Important: READ ALL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

Section I. Type of Hazardous Waste Report

Part A: Generator Annual Report—For generators who ship their waste off—site to facilities which they do not own or operate, fill in the reporting year for this report (e.g., 1982).

Note--Generators who ship hazardous waste off-site to a facility which they own or operate must complete the facility (Part B) report instead of the Part A report.

Part B: Facility Annual Report—For owners or operators of on—site or off—site facilities that treat, store, or dispose of hazardous waste, fill in the reporting year for this report (e.g., 1982).

Part C: Unmanifested Waste Report—For facility owners or operators who accept for treatment, storage, or disposal any hazardous waste from an off—site source without an accompanying manifest, fill in the date the waste was received at the facility (e.g. 04-12-1982).

Section II thru Section IV. Installation I.D. Number, Name of Installation, and Installation Mailing Address

If you did not receive a preprinted label, complete Section II through Section IV.

Section V. Location of Installation

If your installation location address is different than the mailing address, enter the location address of your installation.

Section VI. Installation Contact

Enter the name (last and first) and telephone number of the person who may be contacted regarding information contained in this report.

Section VII. Transportation Services Used (For Part A-Reports ONLY)

List the EPA identification Number for each transporter whose services you used during the reporting year.

Section VIII. Cost Estimates for Facilities (For Part B Reports ONLY)

- A. Enter the most recent cost estimate for facility closure in dollars. See Subpart H of Parts 264 or 265 for more detail.
- B. For disposal facilities only, enter the most recent cost estimate for post closure monitoring and maintenance. See Subpart H of Parts 264 or 265 for more detail.

Section IX. Certification

The generator or his authorized representative (Part A reports) or the owner or operator of the facility or his authorized representative (Parts 3 and C reports) must sign and date the certification where indicated. The printed or typed name of the person signing the report must also be included where indicated.

Note--Since more than one page is required for each report, enter the page number of each sheet in the lower right corner as well as the total number of pages.

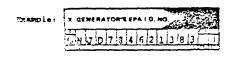
Generator Annual Report, Part A Instructions (DNREC Form 8700-13A)

Generator Annual Report for generators who ship their hazardous waste off-site to facilities which they do not own or operate.

Important: READ ALL INSTRUCTIONS REFORE COMPLETING THIS REPORT.

Section X. Generator's Identification Number

Enter your EPA identification number.



Section XI. Facility's Identification Number

Enter the EPA identification number of the facility to which you sent the waste described below in Section XIV (a separate sheet must be used for each facility to which you sent hazardous waste.)

Section XII. Facility Name

Enter the name of the facility corresponding to the facility's EPA identification number in Section XI.

Section XIII. Facility Address

Enter the address of the facility corresponding to the facility's EPA identification number in Section XI.

Section XIV. Waste Identification

All information in this section must be entered by line number. Each line entry will describe the total annual amount of each waste shipped to the facility identified in Section XI, above.

Section XIV-A. Description of Waste

For hazardous wastes that are listed under Part 261, Subpart D, onter the listed name, abbreviated if necessary. Where mixtures of listed wastes were shipped, enter the description which you believe hast that ich the waste.

For unlisted hazardous waste identified under Part 261, Subpart C. description which enter the believe best describes the waste. Include the specific manufacturing or other process generating the waste sludge from widget (e.g. green and if known, the manufacturing) chemical or generic chemical name of the waste.

Section XIV-B. DOT Hazard Class

Enter the two digit code from Table I which corresponds to the DCT hazard class of the waste described. (If the waste described has been shipped under more than one DOT hazard class, use a separate line for each DOT hazard class.)

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Section XIV-C. DNREC Hazardous Waste Number

For listed wastes, enter the DNREC Hazardous Waste Number from Part 261, Subpart D, which identifies the waste.

For a mixture of more than one listed waste, enter each of the applicable DNREC Hazardous Waste Numbers. Four spaces are provided. If more space is needed, continue on the next line(s) and leave all other information on that line blank.

For unlisted hazardous wastes, onter the DNRECHazardous Waste Numbers from Part 261. Subparts C. applicable to the waste. If more than four spaces are required. Follow the procedure described above.

Steel finishing sludge	0 .,47	S AMOUN! GP WARTE	C EPA TO A 2 A POPULA TO A 2 A	100 F	A DESCRIPTION OF WASTE	200
1 x 0 6 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6	4 1 2	x 0 e 3 x 0 e 3	0 2	Steal finishing sludge	
	П		7064			3

Section XIV-D. Amount of Waste

Enter the amount of this waste you shipped to the facility identified in Section XI and include the weight of containers if left at the treatment, storage, or disposal facility.

Section XIV-E. Unit of Measure

Enter the unit of measure code for the quantity of waste described on this line. Units of measure which must be used in this report and the appropriate codes are:

Units of measure	Code
Pounds	P
Short tons (2,000 lbs)	T
Kilograms	K
Tonnes (1,000 kg)	M

Units of volume may not be used for reporting but must be converted into one of the above units of weight taking into account the appropriate density or specific gravity of the waste.

Section XV. Comments

This space may be used to explain or clarify any entry. If used, enter a cross reference to the appropriate Section number.

Note.—Since more than one page is required for each report, enter this page number of each sheet in the lower right corner as well as the total number of large.

APPENDIX II - UNIFORM HAZARDOUS WASTE MAMITEST DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

Form 8700-22

DNREC Solid Waste Management Branch 89 Kings Highway P. O. Box 1401 Dover, DE 19903

DE-A-

INSTRUCTIONS FOR PURPARATION

Routing of the Manifest

Identify your shipment category and follow the instructions as in λ , θ , θ , θ θ :

No. of Wastes according No. of Transportors to U.S. DOT shipping name Instructions 4 or less than 4 2 07 1 so than 2 more than 4 2 + r = 93 + 13nn = 13 Survey Congress 4 or less than + more than .

(The instructions for 3, 0 a D are selected on the scintinuation sheet)

nstructions A

Cailed by Remerator to	Mailed by Facility to	Mailed Not Theility to		same i by	Petained sy
	Generator Sinte	Facility State	Comercian	Transporter .	1 22 2
	:				
reen Copy	Blue Copy	1/213/2114	·	Tunite Capy	15:11 3 10 Au

The Generator shall mail a photocopy of the Proposition to the Profility State and rotain i photocopy of the Green Copy)

The Pacific shall retain a photomapy of the Man Canal

- 1. Generator completes the Generator portion of the Manifest and has Transporter No. 1 sign and certify receipt of the shipment.
- 2. The Generator detaches the Green Copy and sends it to the Generator State and sends a photocopy of the Green Copy to the Facility State. The Generator retains a photocopy of the Green Copy.
- Transporter No. 1 carries the remaining copies of the manifest along with the shipment.
- 4. Upon delivery of the shipment to the Designated TSD Facility or Transporter No. 2, Transporter No. 1 signs and certifies delivery of the snipment, obtains the signature and certification of the TSD Facility's authorized representative or Transporter No. 2 and detaches and retains the Green Copy of the manifest.
- 5. Upon delivery of the shipment to the Designated TSD Facility, Transporter No. 2 signs and certifies delivery of the shipment, obtains the signature and certification of the TSD Facility's authorized representative and detaches and retains the White Copy of the manifest.

- 6. The TSD Facility detaches the Blue Copy and retains a photo copy and sends the Blue and Yellow Copies to the respecti Generator and Facility States and sends the Pink Copy to th Generator.
- 7. Note the above instructions hold for Interstate and Intrastate shipments. If there are any questions or clarification regarding the instruction please contact the DNREC, Solid Waste Management Branch P. O. Box 1401, 89 Kings Highway, Dover, DE 19903 or call (302) 736-4781.

UNIFORM HAZARDOUS WASTE MANIFEST INSTRUCTIONS (Form 8700-22)

READ ALL INSTRUCTIONS BEFORE COMPLETING THE FORM.

This form was designed to be used by a 12-pitch (elite) typewriter, however, a firm point pen may be used -- press down hard.

FEDERAL REGULATIONS REQUIRE USE OF UNIFORM HAZARDOUS WASTE MANIFEST FORM \$700-22A CONTINUATION SHEET (IF NECESSARY) BY OPERATORS OF HAZARDOUS WASTE MANAGEMENT FACILITIES (TEDER) AS A CONDITION OF TRANSPORTATION.

STATE LAW ALSO MAKES GENERATORS AND TRANSPORTERS OF HAZARDOUS WASTE AND OWNERS OR OPERATORS OF HAZARDOUS WASTE MANAGEMENT FACILITIES (TSDFs) RESPONSIBLE FOR COMPLETION OF THE FOLLOWING INFORMATION:

GENERATORS: ----

Item 1- MANIFEST DOCUMENT NUMBER:

Enter your EPA ID number in the first twelve spaces. In the last five spaces a number must appear which is unique to each shipment made during each calendar year by the gunerator.

For purposes of the manifest, a shipment refers to the transport of hazardous waste initially accepted for transportation in a single transport vehicle.

Item 2= PAGE LOF :

Inter the total number of ioms (Forms 8700-22 and 3700-22A, Continuation Sheet) you use to complete this For example, thaifest. the manifest only consists of the first page (Form 3700-22) ant no Continuation Sheets, then the correct entry is Tage 1 of <u>1</u>. If the manifest contains one front hage (Form 3700-22) and no Coarthuggion Sheet 3700-22A), then the correct entry is "Tame 1 of 1".

Itam 3- GENERATOR NAME AND MAILING ADDRESS:

Inter the generator's name and mailing address.

Item 4- CENERATOR PHONE NUMBER:

Enter a telephone number within your organization where a knowledgeable person may be reached who can give information in response to an emergency.

Item 5- TRANSPORTER #1:

Enter the first transporter's name.

Item 6- EPA I.D. NUMBER:

Enter the EPA ID number and phone number of the first transporter.

Item 7- TRANSPORTER #2:

finter, if applicable, the second transporter's name.

Item 8- EPA I.D. NUMBER:

Enter, if applicable, the EPA ID number and phone number of the second transporter.

(NOTE: If additional transporters are used, their names and EPA I.D. numbers must be entered in the space provided on Continuation Sheet(DNREC Form 8700-22A). Each Continuation Sheer will accommodate two additional transporters. Every transporter used between generator and designated facility must Ъe listed on the manifest in the correct order.)

Item 9- DESIGNATED FACILITY AND SITE ADDRESS:

Enter the name and site address of the designated facility to which you are sending the waste listed on this manifest. The address entered must describe the site location address and as such may be different from the site's mailing address.

Item 10- EPA I.D. NUMBER:

Enter the EPA ID number and phone number of the designated facility identified in Item 9 to which you are sending the waste listed on this manifest.

Item 11- U.S. DOT DESCRIPTION (Including Proper Shipping Name, Hazard Class, and DOT I.D. Number (UN/NA))

Enter the DOT proper shipping name, hazard class and DOT I.D. number (UN/NA) for each waste entry. The U.S. DOT (Department of Transportation) regulations must be complied with in completing this part. You can find these regulations in Title 49 of the Code of Federal Regulations (49 CFR Part 172).

Item 12- CONTAINERS: NUMBER AND TYPE

Enter the number of containers for each waste in the appropriate column followed by the appropriate abbreviation from Table I for the type of each container you are using to manage the waste described on each line.

TABLE I

(Type of Containers)

DM = Metal drums, barrels, keys DW = Wooden drums, barrels, keys

- DF = Fiberboard or plastic drums, barrols, keys
- TP = Portable tanks.
- TT = Cargo tanks (tank trucks)
- TC = Tank cars
- DT = Dump Truck
- CY = Cylinders
- CM = Metal boxes, cartons, cases (including roll-offs)
- OF = Fiber or plastic boxes, cartons, CASES
- BA = lags made of burlap, cloth, paper or plantic

Item 13- TOTAL QUANTITY AND UNIT (Wt. / Vol.), MAZARD CODE AND WASTE NUMBER: Item 14-

For the waste described on each line, enter the total quanitity of the wast in Item 13 the and the οf repropriate unit measure (from Table II, abbreviation Thyam) code and Waste Number in Item 14.

TABLE II

(Units of Measure)

only)

G = gals (liquids only) L = liters (liquidsONLY:-----

P = pounds

K = Kilograms

T = tons

N = metric tons

Y = cubic yards

M = cubic meters

(NOTE: If additional space is required for waste desciptions, this information must be entered in provided on the the space Continuation Sheet (IPA Form 770-22A).

INSTRUCTIONS

Inter any special handling instructions here. (This space is for use by the generator to indicate special transportation, treatment, storage or disposal information. Alternate facility information, if used, and point of departure from the United States (for international shipments) must also he entered in this space. States are not authorized modulte idditional, or different information in this space.)

Item 16- GENERATOR'S CERTIFICATION:

Read the certification statement. Type or print your name and sign your name on the appropriate line.

INTERNATIONAL SHIPMENTS:

Generators must enter in the "Special Handling Instructions" box the point of departure (City and State) for those shipments destined for treatment, storage or disposal outside the jurisdiction of the United States. Be sure to enough space for leave transporter to enter the date the shipment left the United States.

(NOTE: All of the above information for which the generator is responsible may be preprinted except the handwritten signature required in Item 16.)

TRANSPORTERS

Item 17- TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS:

Print or type the name of the person accepting the materials on behalf of the first transporter. That person must sign and date the manifest in this space assuming custody of the waste.

Item	18-	TRA	NSPORTER	2
LIWOYDYD.	EDGEMENT)F	RECEIPT	Q.F
MARTRIN	.s:			

In the event that a transporter is used to transport the waste, print or type the name of the person accepting materials on behalf of the second That trasnporter. person must sign and date the manifest in this space upon assuming custody of the waste.

ADDITIONAL TRANSPORTERS:

(NOTE: Additional transporters must acknowledge receipt of waste shipments from previous transporters on the Continuation Sheet (EPA Form 8700-22A). See the instruction for the Continuation Sheet.)

INTERNATIONAL SHIPMENTS:

The transporter who takes the waste identified on the manifest out of the United States must enter the date the hazardous waste leaves the United States. This entry must be made in Item 15 "Special Handling Instructions" after the generator's entry for point of departure (city and state).

OWNERS AND OPERATORS OF TSDF'S ONLY----

Item 19- DISCREPANCY INDICATION:

In this space the authorized representative of the designated (or alternate) facility's owner or operator must note any significant discrepancy between the waste described on the manifest and the waste actually received.

If you cannot resolve significant discrepancies within 15 days of receiving the waste, you must submit a letter with a copy of the manifest at issue to the Department describing the discrepancy and your attempts to reconcile it.

Item 20- FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT:

Print or type the name of the person accepting the materials represented by the manifest on behalf of the owner or operator of the facility. That person must sign and date the manifest in this space indicating receipt of the waste described on the manifest.

(NOTE: If the person accepting the shipment represents an alternate facility, that person must so indicate.)

SPECIAL NOTE CONCERNING INTERNATIONAL SHIPMENTS:

Shipments of hazardous waste destined for a foreign country but originating within the United States must comply with Sec. §262.50 and 263.20 of the Delaware regulations governing Hazardous Waste. (Generators are advised that foreign countries may require specific forms for use in their country.)

Transporters taking hazardous waste outside the jurisdiction of the United States are, in addition to their normal hazardous waste managment requirements, required to indicate the date the shipment left the United States.

Shipments hazardous of waste regulated by 7 Del.C. Ch. 63 originating outside the United States must be accompanied by a manifest. Transporters of such hazardous waste are responsible for completing hazardous manifest when waste transported into the United States from abroad (40 CFR Part 263.10(c)(1)of the Delaware regulations governing Hazardous Waste.

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Generator Name and	THE RESERVE AND ADDRESS OF THE PARTY OF THE	_ ;		Stat	e Manife	st Num	cer	7
Mailing Address								
4								
Generator Phone Number ()								`
Transporter 1 Name	6] EPA I.D. N	ımper		Dho	ne#			
Transporter 2 Name	8] EPA I.D. N	umber			ne #			
Designated Facility and Site Add	dress 10] EPA T.D.	Numbe	C		ne #	ageneratic symmetry of effective of	**************************************	
] U.S. DOT Description (includin Hazard Class, and ID Number)	g Proper Shipping N	ame,	Contair	iers	13]Tota Quantit	中的it	Haz. Code	Waste
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5] Special Handlign Instruction a								
i] Generator's Certification: To classified, described, packag transportation according to i	ed, marked, and lab he applicable regul	alad .	and are	a in	proper c	onditi	on ro	r
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Form 8700-22A

DNREC Solid Waste Management Branch 89 Kings Highway P. O. Box 1401 Dover, DE 19903

DE-A-

INSTRUCTIONS FOR PREPARATION

Routing of the Continuation Sheet

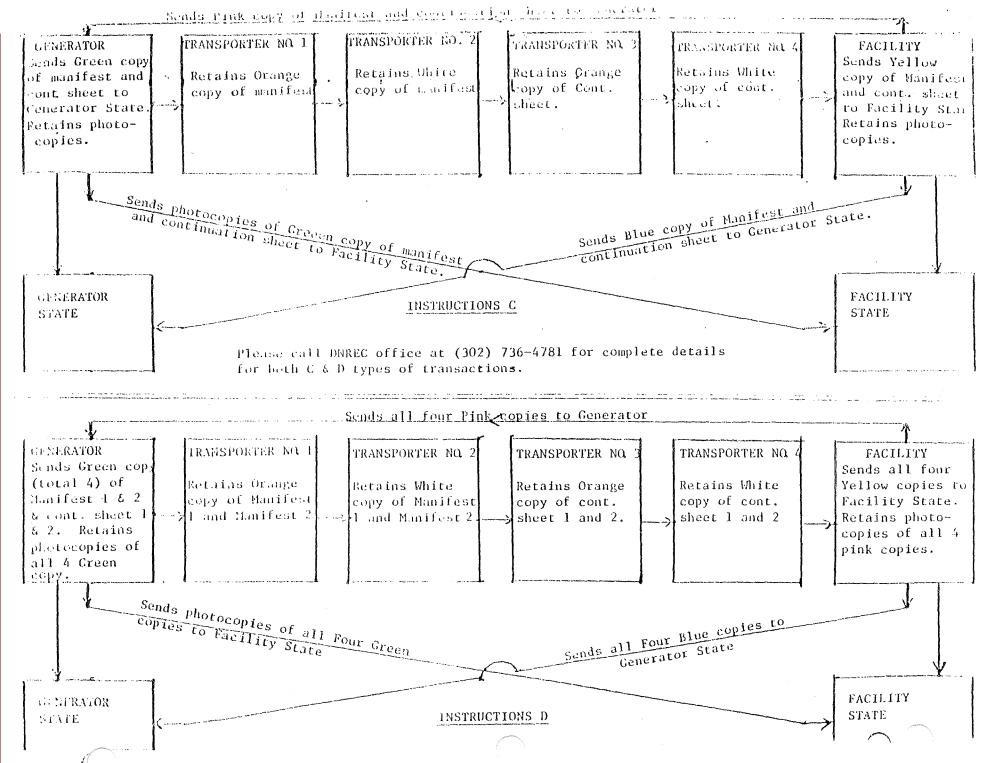
Instructions B

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Generator	Generator	Facility	Generator	Transporter	Transporte
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Manifest &	Manifest &		Manifest &	Manifest &	Manifest &
Cont. Sheet	Cont. Sheet		Cont. Sheet	Cont. Sheet	Cont. Sheet

(Generator shall mail a photocopy of the Green Copy of the Manifest & Continuation Sheet to the Facility State and retain a copy.)

(Facility shall retain a photocopy of the Blue Copy of the Manifest & Continuation Sheet.)

- 1. Generator completes Manifest and a Continuation Sheet and has Transporter No. 1 sign and certify receipt of the shipment.
- 2. Follow the instructions A-2 through A-7 for both the Manifest and the Continuation Sheet.



INSTRUCTIONS FORM 87-22A (Continuation Sheet)

INSTRUCTIONS BEFORE ALL COMPLETING THE FORM.

This form was designed to be used by a 12-pitch (elite) typewriter, however, a frim point pen may be used -- press down hard.

THIS FORM (8700-22A) HAS DESIGNATED FOR USE BY GENERATORS AND TRANSPORTERS OF HAZARDOUS WASTE AND OWNERS AND OPERATORS OF TREATMENT STORAGE AND DISPOSAL FACILITIES. IS THE RESPONSIBILITY OF THE GENERATOR TO INITIATE A CONTINUATION SHEET IF EITHER OF THE FOLLOWING CONDITIONS EXIST:

- MORE THAN TWO TRANSPORTERS ARE TO BE USED TO TRANSPORT THE SHIPMENT
- MORE THAN FOUR KINDS OF WAST/MATERIALS AND/OR TYPES OF CONTAINERS ARE PART OF THE SHIPMENT

STATE REGULATIONS REQUIRE USE OF EPA HAZARDOUS WASTE MANIFEST FORM 8700-22 AND 8700-22A CONTINUATION SHHET (IF NECESSARY) BY GENERATORS TRANSPORTS OF HAZARDOUS WASTE AND OWNERS OR OPERATORS OF HAZARDOUS WASTE MANAGEMENT FACILITIES (TSDFs) AS A CONDITION OF TRANSPORTATION.

STATE LAW ALSO MAKES GENERATORS AND TRANSPORTERS OF HAZARDOUS WASTE AND OWNERS OR OPERATORS OF HAZARDOUS WASTE (TSDFs) FACILITIES MANAGEMENT RESPONSIBLE FOR COMPLETION OF THE FOLLOWING INFORMATION:

GENERATORS:

Item 21- MANIFEST DOCUMENT NUMBER:

Enter the same Manifest Document Number here that appears on the first page of the manifest (Form 8700-22).

Item 22- PAGE OF :

Enter the page number of this form (Form 8700-22A) in the first blank and the total number of pages of this manifest [front pages (Form 8700-22) plus all Continuation Sheets (Form 8700-22A)] in the second blank. For example, if there is one front page and one Continuation Sheet, then the correct entry here is "Page 2 of 2". If there is one front page with two Continuation Sheets, then the correct entry for the first Continuation Sheet would be "Page $\underline{2}$ of $\underline{3}$ " and for the second Continuation Sheet the correct entry would be "Page 3 of 3".

Item 23- GENERATORS NAME:

Enter the generator's name as it appears in Item 3 (on Form 8700-22).

Item 24- TRANSPORTER : Item 25-

Item 26-Item 27-

> If you require more than two transporters to complete the shipment of the hazardous waste described on this manifest, enter the name, EPA I.D. Number and phone number of each additional transporter in the order in which they will transport the waste. Be sure to indicate in the space following the word "Transporter" the order in which they carry the waste (e.g., 3rd, 4th, etc.).

28- U.S. DOT Item DESCRIPTION (Includ-

ing Proper Shipping Name, Item 30- Hazard Class, DOT Identifica-Item 31- tion Number); CONTAINER AND TYPE: QUANTITY;

> If you require additional space to list the hazardous

wastes described by this manifest, enter the appropriate information here. [See Instructions for Generators (Form 3700-22).]

Item 32- SPECIAL HANDLING INSTRUCTIONS

Enter any special handling instructions here which are specific to the waste on the described same Continuation Sheet. (This space is for use by the generator to indicate special transportation, treatment, storage disposal information. Alternate facility information, if used, and point of departure from the United States for international shipments must also be entered in this space. States are not authorized to require additional, new or different information. in this space.)

[NOTE: All of the above information for which the generator is responsible may be printed.]

TRANSPORTERS ONLY-

Item 33- TRANSPORTER ACKNOWLEDGMENT
OF RECEIPT OF MATERIALS:
Item 34-

Print or type the name of the person accepting the materials on behalf of the additional transporters. Those persons must sign and date the manifest in the appropriate space. If there are no more than two this transporters, information and these signatures are not required on the Continuation Sheet.

[NOTE: The last transporter who carries waste inside the jurisdiction of the United States before it is exported must indicate the export date in item 15, Special Handling Instruction and Additional Information, on form 8700-22.]

OWNERS AND OPERATORS OF TSDFs ONLY:---

Item 35- DISCREPANCY INDICATION SPACE:

In this space you must note any significant discrepancy between the waste described on the manifest and the waste you actually received. Discrepancies should be documented on the form which contains a discrepancy.

SPECIAL NOTE CONCERNING INTERNATIONAL SHIPMENTS:

Shipments of hazardous waste destined for a foreign country but originating within the United States must comply with Section 262.50. and 263.20 of the Delaware regulations governing hazardous waste (Generators are advised that foreign countries may require specific forms for use in their country.)

Transporters taking hazardous waste outside the United States are required to indicate the date the shipment leaves the United States.

Shipments of hazardous waste regulated by 7 Del. C. Chapter 63 and originating outside the United States must be accompanied by a manifest. Transporters of such hazardous waste are responsible for completing the manifest when hazardous waste is transported into the United States form abroad [Section 263.10(c)(1) of the Delaware Regulations Governing Mazardous Waste].

,	UNIFORM HAZARDOUS	21] Manifest Document Number	-	[22]		formati		
(Co	WASTE MANIFEST Form	EPA I.D. Number		Page of	3i	aded ar	ea 13 07 13	not W
`3]	Generator Name	,		(5)	tate Ma	nifest	Numbe	er
				<u> </u>				
24]	Transporter Name 25] EPA I.D. Number Phone #							
_	Transporter Name	[27] EPA I.D. Numbe			ne #		,,, , , , , , , , , , , , , , , , , , 	
28]	U.S. DOT Description (inc Hazard Class, and ID Num	cluding Proper Shipping Name, ber)	Conta:	iners Type	30] Çütal Qüantı	31j Lty W2j∜ o	Haz. Code	Waste
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32]	Special Handling Instruc	tion and Additional Informati	on					
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PART 263--STANDARDS APPLICABLE TO TRANSPORTERS OF HAZARDOUS WASTE

Subpart A-General

Section

263.10 Scope

263.11 EPA identification numbers.

263.12 Transfer facility requirements

Subpart B-Compliance With the Manifest System and Recordkeeping

263.20 The manifest system

263.21 Compliance with the manifest

263.22 Recordkeeping.

Subpart C-Hazardous Waste Discharges

263.30 Immediate action.

263.31 Discharge clean up.

Subpart A-General

§263.10 Scope.

(a) These regulations establish standards which apply to persons transporting hazardous waste within the United States if the transportation requires a manifest under Part 262.

Note: The regulations set forth in 262 and 263 establish responsibilities οf generators and transporters of hazardous waste in the transportation, management of that waste. In these DNREC regulations, has expressly adopted certain regulations of (DOT) Department οĨ Transportation governing the transportation hazardous materials. These regulations concern, among other things, labeling, marking, placarding, using proper containers, and reporting DNREC's adoption of these discharges. regulations ensures consistency with the require ments of DOT and thus avoids the of duplicative establishment conflicting requirements with respect These DNREC regula to these matters. which apply to intrastate tions transportation of hazardous waste are enforceable by DNREC.

DOT has revised its hazardous materials transportation regulations in order to encompass the transporta tion οf hazardous Waste and regulate intrastate, well as transportation of interstate, hazardous waste. Transporters of hazardous waste are cautioned DOT's regulations are fully applicable to their activities and enforceable by These DOT regulations codified in Title 49, Code of Federal Regulations, Subchapter C.

- (b) These regulations do not apply to on-site transportation of hazardous waste by generators or by owners or operators of permitted hazardous waste management facilities.
- (c) A transporter of hazardous waste must also comply with Part 262, Standards Applicable to Generators of Hazardous Waste, if he:
- (1) Transports hazardous waste into the United States from abroad; or
- (2) Mixes hazardous wastes of different DOT shipping descriptions by placing them into a single container.

§263.11 EPA Identification number

- (a) A transporter must not transport hazardous wastes without having received an EPA identification number from the Secretary.
- transporter who has received an EPA identification number may obtain one by applying "State Secretary using οī Delaware Notification of Hazardous Activity" form and EPA Form 8700-12. Upon receiving the request Secretary will assign an EPA identification number the to transporter.

§263.12 Transfer Facility Requirements

A transporter who stores manifested shipments of hazardous waste in containers meeting the requirements of $\S262.30$ at a transfer facility for a period of ten (10) days or less is not

subject to regulation under Parts 122, identification 264 and Part 265 of these Regulations with certification, respect to the storage of those wastes.

Subpart B-Compliance With the Manifest System and Recordkeeping

§263.20 The manifest system.

- (a) A transporter may not accept hazardous waste from a generator unless it is accompanied by a manifest, signed by the generator in accordance with the provisions of Part 262.
- (5)Before transporting the hazardous waste, the transporter must and date the manifest acknowledging of acceptance hazardous waste from the generator. The transporter must return a signed copy to the generator before leaving the generator's property.
- (c) The transporter must ensure that the manifest accompanies the hazardous waste.
- (d) A transporter who delivers a hezardous waste to another transporter er to the designated facility must:
- (1) Obtain the date of dolivery and the handwritten signature of that transporter or of the owner or operator of the designated facility on the manifest; and
- (2) Retain one copy of the manifest in accordance with $\S 263,22;$ and
- (3) Give the remaining copies of the manifest to the accepting transporter or designated facility
- (a) The requirements of paragraph
 (c), (d) and (f) of this section do not
 apply to water (bulk shipment)
 transporters if:
- (1) The hazardous waste is delivered by water (bulk shipment) to the designated facility; and
- (2) A shipping paper containing all the information required on the manifest (excluding the EPA

identification numbers, generator certification, and signatures) accompanies the hazardous waste; and

- (3) The delivering transporter obtains the date of delivery and handwritten signature of the owner or operator of the designated facility on either the manifest or the shipping paper; and
- (4) The person delivering the hazardous waste to the initial water (bulk shipment) transporter obtains the date of delivery and signature of the water (bulk shipment) transporter on the manifest and forwards it to the designated facility; and
- (5) A copy of the shipping paper or manifest is retained by each water (bulk shipment) transporter in accordance with §263.22.
- (f) For shipments involving rail transportation, the requirements of paragraphs (c), (d) and (e) do not apply and the following requirements do apply:
- (1) When accepting hazardous waste from a non-rail transporter, the initial rail transporter must:
- (i) Sign and date the manifest acknowledging acceptance of the hazardous waste;
- (ii) Return a signed copy of the manifest to the non-rail transporter;
- (iii) Forward at least
 three copies of the manifest to:
- (Λ) The next non-rall transporter, if any; or
- (B) The designated facility, if the shipment is delivered to that facility by rail; or
- (C) The last rail transporter designated to handle the waste in the United States;
- (iv) Retain one copy of the manifest and rail shipping paper in open dance with §253.02.

(2) Rail transporters must that shipping paper ensure а containing all the information required on the manifest (excluding EPA identification certification, generator signatures) accompanies the hazardous waste at all times.

Note: Intermediate rail transporters are not required to sign either the manifest or shipping paper.

- (3) When delivering hazardous waste to the designated facility, a rail transporter must:
- (i) Obtain the date of delivery and handwritten signature of the owner or operator of the designated facility on the manifest or the shipping paper (if the manifest has not been received by the facility); and
- (ii) Retain a copy of the manifest or signed shipping paper in accordance with §263.22.
- (4) When delivering hazardous waste to a non-rail transporter a rail transporter must;
- (i) Obtain the date of delivery and the handwritten signature of the next non-rail transporter on the manifest; and
- (ii) Retain a copy of the manifest in accordance with §263.22.
- (5) Before accepting hazardous waste from a rail transporter, a non-rail transporter must sign and date the manifest and provide a copy to the rail transporter.
- (g) Transporters who transport hazardous waste out of the United States must:
- (1) Indicate on the manifest the date the hazardous waste left the United States; and
- (2) Sign the manifest and retain one copy in accordance with §263.22 (c); and

(3) Return a signed copy of the manifest to the generator.

§263.21 Compliance with the manifest.

- (a) The transporter must deliver the entire quantity of hazardous waste which he has accepted from a generator or a transporter to:
- (1) The designated facility listed on the manifest; or
- facility, if the hazardous waste cannot be delivered to the designated facility because an emergency prevents delivery; or
- (3) The next designated transporter, or
- (4) The place outside the United States designated by the generator.
- (b) If the hazardous waste cannot be delivered in accordance with paragraph (a) of this section, the transporter must contact the generator for further directions and must revise the manifest according to the generator's instructions.

§263.22 Recordkeeping.

- (a) A transporter of hazardous waste must keep a copy of the manifest signed by the generator, himself, and the next designated transporter or the owner or operator of the designated facility for a period of three years from the date the hazardous waste was accepted by the initial transporter.
- (b) For shipments delivered to the designated facility by water (bulk shipment), each water (bulk shipment) transporter must retain a copy of the shipping paper containing all the information required in §263.20(e)(2) for a period of three years from the date the hazardous waste was accepted by the initial transporter.

- (c) For shipments of hazardous waste by rail within the United States:
- (i) The initial rail transporter must keep a copy of the manifest and shipping paper with all the information required in $\S263.20(f)(2)$ for a period of three years from the date the hazardous waste was accepted by the initial transporter; and
- (ii) The final rail transporter must keep a copy of the signed manifest (or the shipping paper if signed by the designated facility in lieu of the manifest) for a period of three years from the date the hazardous waste was accepted by the initial transporter.

Note: Intermediate rail transporters are not required to keep records pursuant to these regulations.

- (d) A transporter who transports hazardous waste out of the United States must keep a copy of the manifest indicating that the hazardous waste left the United States for a period of three years from the date the hazardous waste was accepted by the initial transporter.
- periods of (e) The retention referred to in this Section automatically during extended course of any unresolved enforcement regarding the regulated action 57 activity or as requested Secretary.

Subpart C - Hazardous Waste Discharges

§263.30 Immediate action.

- (a) In the event of a discharge hazardous waste during transportation, the transporter must take appropriate immediate action to health and protect human the environment (e.g., notify local authorities, dike the discharge area).
- (b) If a discharge of hazardous waste occurs during transportation and

an official (State or local government or a Federal Agency) acting within the scope of his official responsibilities determines that immediate removal of the waste is necessary to protect human health or the environment, that official may authorize the removal of the waste by transporters who do not have EPA identification numbers and without the preparation of a manifest.

- (c) An air, rail, highway, or water transporter who has discharged hazardous waste must:
- (1) Give notice, if required by 49 CFR 171.15, to the National Response Center (800-424-8802 or (202) 426-2675), and give notice to the Department of Natural Resources and Environmental Control ((302)-736-4781 or (302) 736-4580) immediately; and
- (2) Report in writing 49 CFR 171.16 required bу to the Office οf Director, Hazardous Regulations, Materials Materials Transportation Bureau, Department of Transportation, Washington, D.C. 20590.
- (d) A water (bulk shipment) transporter who has discharged hazardous waste must give the same notice as required by 33 CFR 153.203 for oil and hazardous substances.

263.31 Discharge clean up.

A transporter must clean up any hazardous waste discharge that occurs furing transportation and restore the spill area to the original condition existing before the spill or take such action as may be required or approved by Federal, State, or local officials so that the hazardous waste discharge no longer presents a hazard to human health or the environment.