START

0016297

NONRADIOACTIVE DANGEROUS WASTE LANDFILL

INTERNAL SHIPPING DOCUMENTS

PARTIAL DISPOSAL EVENTS

FOR YEARS 1976 THROUGH 1985

BEST AVAILABLE COPY

SEP 1991
RECEIVED
EDMC

EDMC #16297 NOTE

This document was scanned in the order it was received. However, to assist the user in locating specific pages, the following pagination guide is provided for your use. NNP = non-numbered page

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NOTES ON PREPARATION OF THE NONRADIOACTIVE DANGEROUS WASTE LANDFILL WASTE PARTIAL DISPOSAL DOCUMENT

1. The file copy of the Nonradioactive Dangerous Waste Landfill (NRDWL) disposal records for the operational years 1975 through 1985 were reviewed and assembled into waste disposal packets.

2. Generally, the disposal record packages contain information on the waste that was disposed only at the NRDWL. However, some waste disposal events have partial disposal locations at NRDWL and an other facility. Partial disposal locations other than the NRDWL consisted of the 2727-S/200W Offsite Staging Facility, United Nuclear Industries Landfill, Hanford Solid Waste Landfill, Hanford sanitary trenches, 200W burial area, or unidentified offsite locations. This document consists entirely of these partial disposals and are segregated by year.

3. Records documenting disposal for a given year were assigned page numbers in the initial submittal of the file copy, "Manifest Records for Years 1975-1985", on February 14, 1991. Records are numbered consecutively for each year beginning with 0000001. Generally all documents relating to a single disposal event are arranged in consecutive order. Occasionally, however, disposal packets contain related documents out of consecutive order. Some pages are related to more than one disposal event and appear in more than one waste disposal packet.

4. A partial waste disposal packet number is composed of the letter P (for packet), the last two digits of the year in which partial disposal took place, and a consecutively assigned three digit number starting with 001 for the first packet of each year (i.e. P75-001 or P83-001)

DISPOSAL PACKET NUMBER

P76-011

REQUEST FOR DISPOSAL OF NONRADIOACTIVE HAZARDOUS MATERIAL

RECEIVED

JUL 26 1976

ENVIRONMENTAL PROTECTION SECTION

INSTRUCTIONS

Complete this request by providing available information in the spaces provided. Fold, staple, and return completed form by plant mail to Environmental Protection.

I. CUSTODIAN

NAME L L Burger TELEPHONE

BUILDING/AREA 375/300

II. IDENTIFICATION OF MATERIAL

TRADE NAME K & C Dieter Reagent

CHEMICAL NAME

STORAGE LOCATION Hood Rm 517

CONTAMINATED WITH RADIOACTIVE MATERIAL? YES ____ NO X

III. PACKAGING

LIQUID X . SOLID ____ GAS ____

NUMBER OF CONTAINERS 1 WEIGHT ____ EA. VOLUME 3 l EA.

TYPE OF CONTAINER glass acid bottle AGE OF CONTAINER 1 month

IV. REASON FOR DISPOSAL

Outdated, not usable

V. DATE DISPOSAL REQUIRED

Requested by L L Burger 2-3012

VI. COMMENTS

APPROVED FOR DISPOSAL BY [illegible]

DATE 8-3-76

DISPOSAL LOCATION Chemical Trench, Central Landfill

BY

DATE

0000016

9 1 1 2 2 4 5 1 0 0 3

REQUEST FOR DISPOSAL OF NONRADIOACTIVE HAZARDOUS MATERIAL

RECEIVED

JUL 26 1976

ENVIRONMENTAL PROTECTION SECTION

INSTRUCTIONS

Complete this request by providing all available information in the spaces provided. Fold, staple, and return completed form by plant mail to Environmental Protection.

I. CUSTODIAN

NAME F. T. Berger TELEPHONE _____

BUILDING/AREA 325 / 300

II. IDENTIFICATION OF MATERIAL

TRADE NAME _____

CHEMICAL NAME Hexafluorophosphoric acid 65%

STORAGE LOCATION Hood Rm 517

CONTAMINATED WITH RADIOACTIVE MATERIAL? YES ____ NO X

III. PACKAGING

LIQUID Y . SOLID ____ GAS ____

NUMBER OF CONTAINERS ____ WEIGHT ____ EA. VOLUME ____ EA.

TYPE OF CONTAINER Plastic Bottle AGE OF CONTAINER 10 years

IV. REASON FOR DISPOSAL

Out dated, not usable

V. DATE DISPOSAL REQUIRED

request by F. J. Kurt 2-30/2

VI. COMMENTS

APPROVED FOR DISPOSAL

BY _____

DATE Refused

DISPOSAL LOCATION _____

BY _____

DATE _____

0000017

9112220010 9

Atlantic Richfield Hanford Company
Federal Building
Richland, Washington 99352
Telephone 509 942-7411

August 3, 1976

Hanford Engineering Development
Laboratory
Richland, Washington 99352

Attention: Mr. L. E. Lust

Subject: REQUEST FOR DISPOSAL OF NONRADIOACTIVE HAZARDOUS MATERIAL

Dear Len:

I can not approve disposal of the hexafluorophosphoric acid in the chemical trench at the central landfill, as it is too reactive in its present state. I suggest you contact Mr. E. A. Weakley at United Nuclear Industries; maybe he can be of some assistance.

The Karl Fisher Reagent can be buried if the proper precautions are taken. The burial container must be lined with a plastic bag. The reagent bottle can then be placed in the container along with an absorbant material (e.g. vermiculite) and sealed. Label the container "Hazardous Chemical Waste, Do Not Open".

When you are ready to dispose of the material, contact Mr. M. E. Clark, at 942-6178. The original disposal request must accompany the material to the landfill. The person that performs the burial must sign the request and return it to me.

Very truly yours,

J. L. Calder
Environmental Protection Engineer

Atts. (2)

cc: JL Calder, w/atts.
ME Clark, w/o atts.
JV Panesko, w/o atts.

DISPOSAL PACKET NUMBER

P77-008

Atlantic Richfield Hanford Company
Federal Building
Richland, Washington 99352
Telephone 509 942-7411

BILL

March 7, 1977

Hanford Engineering Development Laboratory
Federal Building
Richland, Washington 99352

Attention: Mr. D. L. Powell

Subject: REQUEST FOR DISPOSAL OF HAZARDOUS MATERIAL

Gentlemen:

Attached is a revised list of the waste chemicals which you sent to me for approval for disposal in the Central Landfill.

Section I of this list gives those materials which are approved for disposal in the Central Landfill. These materials should be sealed in containers prior to packing in layers with absorbant material (such as vermiculate) and sealed in a metal drum. The drum should then be labeled to indicate that it contains hazardous chemical wastes and should not be opened. Arrangements for transportation of the materials should be made through Mr. M. E. Clark (2-6748) of Transportation, Utilities, and Maintenance, ARHCO.

Section II of the revised list gives those substances which cannot be approved for disposal in the Central Landfill. I suggest that you contact Mr. C. Caldwell (2-1445 or 2-1501) of the Fire Department regarding the possibility of burning these liquids.

Section III of the revised list gives those materials which may be sent to the chemical waste disposal system of United Nuclear, Inc. Arrangements for disposal in this manner should be made through Mr. E. A. Weakley (2-3378) of UNI.

Please include the approved Request for Disposal of Hazardous Material with the shipment of wastes sent to the Chemical Trench of the Central Landfill. The operator disposing of the material will sign the form and return it to me at the Environmental Protection Section. Thank you for your cooperation.

Very truly yours,

Roger L. Dirkes

Roger L. Dirkes
Environmental Protection Engineer

Attachments

0000013

2-2643

222T

REQUEST FOR DISPOSAL OF NONRADIOACTIVE HAZARDOUS MATERIAL

INSTRUCTIONS

Complete this request by providing all available information in the spaces provided. Fold, staple, and return completed form by plant mail to Environmental Protection.

H.E.D.L.

I. CUSTODIAN

B.

NAME D. L. Powell TELEPHONE 2-3162

BUILDING/AREA 308 / 300

II. IDENTIFICATION OF MATERIAL

TRADE NAME See Attachment

CHEMICAL NAME

STORAGE LOCATION 308 Building

CONTAMINATED WITH RADIOACTIVE MATERIAL? YES ____ NO X

III. PACKAGING

LIQUID X . SOLID X GAS ____

NUMBER OF CONTAINERS Attachment WEIGHT ____ EA. VOLUME ____ EA.

TYPE OF CONTAINER ____ AGE OF CONTAINER ____

IV. REASON FOR DISPOSAL

do not use

V. DATE DISPOSAL REQUIRED

3-1-77 at latest

VI. COMMENTS

APPROVED FOR DISPOSAL
BY [illegible]
DATE 3/7/77

DISPOSAL LOCATION Chemical Trench - Central Landfill
BY [illegible]
DATE 3-29-77

0000014

9112243101 3

I. Acceptable for Disposal in Central Landfill:

Collodion Flexible	1 lb.
Spray Paint	13 cans
Dow Corning Fluid 200	1 pt.
Paper Cement	1 gal.
Dowanol	1 qt.
Calcium Carbonate	6 lbs.
Unknown	1/4 pt.
Cyclohexane	1 qt.
Ethylene Dichloride	4 pt.
Carboline Thinner 2J	1 gal.
Fine Sulfide	2 oz.
Mineral Oil	1 qt.
Collodion	1 pt.

II. Unacceptable for Disposal in Central Landfill: Deliver to FIRE STATION 609 Bldg. 600 AREA

Chloroform	1 pt.
Benzene	14 pt.

III, Contact Mr. E. A. Weakley (UNI) -3378 for Disposal Arrangements:

Potassium Permanganate $KMnO_4$	3 lbs.
Sodium Hydroxide NaOH	10 lbs.
Nickel Chloride	5 lbs.
Nickel Sulfate	5 lbs.
Sodium Phosphate	1 lb.
Sodium Borate	1 lb.
Boric Acid	1 lb.
Cuprous Cyanide	1 lb.
Cupric Sulfate	6 lb.
Lithium Flouride	1 lb.
Aluminum Chloride	1 lb.
Lithium Carbonate Li_2CO_3	1 lb.
Sodium Flouride	1 lb.
~~2-Propanol~~	~~3 1/2 gal.~~
Sodium Cyanide	1 lb.
~~Dimethyl Formamide~~	~~1 pt.~~
Ethylene Glycol	1 pt.
Diethylene Glycol	1 pt.
~~Butyl Alcohol~~	~~6 pt.~~

Bob Hall
2-3723

Process Sewer

REQUEST FOR DISPOSAL OF NONRADIOACTIVE HAZARDOUS MATERIAL

INSTRUCTIONS

Complete this request by providing all available information in the spaces provided. Fold, staple, and return completed form by plant mail to Environmental Protection.

H.E.D.L.

I. CUSTODIAN B.

NAME D.L. Powell TELEPHONE 2-3162

BUILDING/AREA 308 / 300

II. IDENTIFICATION OF MATERIAL

TRADE NAME See Attachment

CHEMICAL NAME

STORAGE LOCATION 308 Building

CONTAMINATED WITH RADIOACTIVE MATERIAL? YES ____ NO X

III. PACKAGING

LIQUID X . SOLID X GAS ____

NUMBER OF CONTAINERS Attachment WEIGHT ____ EA. VOLUME ____ EA.

TYPE OF CONTAINER ____ AGE OF CONTAINER ____

IV. REASON FOR DISPOSAL

do not use

V. DATE DISPOSAL REQUIRED

3-1-77 at latest

VI. COMMENTS

APPROVED FOR DISPOSAL
BY Roger L. Dubea
DATE 3/7/77

DISPOSAL LOCATION Chemical Trench - Central Landfill
BY Art Garner
DATE 3/29/77

0000016

9112243101 5

I. Acceptable for Disposal in Central Landfill:

Collodion Flexible	1 lb.
Spray Paint	13 cans
Dow Corning Fluid 200	1 pt.
Paper Cement	1 gal.
Dowanol	1 qt.
Calcium Carbonate	6 lbs.
Unknown	1/4 pt.
Cyclohexane	1 qt.
Ethylene Dichloride	4 pt.
Carboline Thinner 2J	1 gal.
Fine Sulfide	2 oz.
Mineral Oil	1 qt.
Collodion	1 pt.

II. Unacceptable for Disposal in Central Landfill:

Chloroform	1 pt.
Benzene	14 pt.

III, Contact Mr. E. A. Weakley (UNI) for Disposal Arrangements:

Potassium Permanganate	3 lbs.
Sodium Hydroxide	10 lbs.
Nickel Chloride	5 lbs.
Nickel Sulfate	5 lbs.
Sodium Phosphate	1 lb.
Sodium Borate	1 lb.
Boric Acid	1 lb.
Cuprous Cyanide	1 lb.
Cupric Sulfate	6 lb.
Lithium Flouride	1 lb.
Aluminum Chloride	1 lb.
Lithium Carbonate	1 lb.
Sodium Flouride	1 lb.
2- Propanol	3 1/2 gal.
Sodium Cyanide	1 lb.
Dimethyl Formamide	1 pt.
Ethylene Glycol	1 pt.
Diethylene Glycol	1 pt.
Butyl Alcohol	6 pt.

Atlantic Richfield Hanford Company
Federal Building
Richland, Washington 99352
Telephone 509 942-7411

March 7, 1977

Hanford Engineering Development Laboratory
Federal Building
Richland, Washington 99352

Attention: Mr. D. L. Powell

Subject: REQUEST FOR DISPOSAL OF HAZARDOUS MATERIAL

Gentlemen:

Attached is a revised list of the waste chemicals which you sent to me for approval for disposal in the Central Landfill.

Section I of this list gives those materials which are approved for disposal in the Central Landfill. These materials should be sealed in containers prior to packing in layers with absorbant material (such as vermiculate) and sealed in a metal drum. The drum should then be labeled to indicate that it contains hazardous chemical wastes and should not be opened. Arrangements for transportation of the materials should be made through Mr. M. E. Clark (2-6748) of Transportation, Utilities, and Maintenance, ARHCO.

Section II of the revised list gives those substances which cannot be approved for disposal in the Central Landfill. I suggest that you contact Mr. C. Caldwell (2-1445 or 2-1501) of the Fire Department regarding the possibility of burning these liquids.

Section III of the revised list gives those materials which may be sent to the chemical waste disposal system of United Nuclear, Inc. Arrangements for disposal in this manner should be made through Mr. E. A. Weakley (2-3378) of UNI.

Please include the approved Request for Disposal of Hazardous Material with the shipment of wastes sent to the Chemical Trench of the Central Landfill. The operator disposing of the material will sign the form and return it to me at the Environmental Protection Section. Thank you for your cooperation.

Very truly yours,

Roger L. Dirkes

Roger L. Dirkes
Environmental Protection Engineer

Attachments

0000018

cc: ME Clark w/ att.
EA Weakley w/att.

	Potassium Permanganate	3 lbs.
	Sodium Hydroxide	10 lbs.
	Nichlous Chloride	5 lbs.
	Nichlous Sulfate	5 lbs.
CL	Collodion Flexible	1 lb.
	Sodium Phosphate	1 lb.
	Sodium Borate	1 lb.
	Boric Acid	1 lb.
	~~Copperous~~ Cyanide	1 lb.
	Cupric Sulfate	6 lb.
	Lithium Fluoride	1 lb.
	Alumimum Chloride	1 lb.
	Lithium Carbonate	1 lb.
	Sodium Fluoride	1 lb.
CL	Spray Paint (Pressurized)	13 cans
CL	Dow Corning Fluid 200	1 pt.
CL	Paper Cement	1 gal (1/3 full)
CL	Dowanol	1 qt.
	2 Propanol	3 1/2 gal.
CL	Calcium Carbonate	6 lbs.
CL	Unknown	1/4 pt. small amount +
	Sodium Cyanide	1 lb.
	Dimethyl Formanide	1 pt.
CL	Cyclohexane	1 qt.
CL	Ethylene Dichloride	4 pt.
CL	Carboline Thinner 2J	1 gal.
CL	Fine Sulphide	2 oz.
CL	Mineral Oil	1 qt.
[illegible]	Chloroform	1 pt. →
CL	Collodion	1 pt.
	Ethylene Glycol	1 pt.
	Diethylene Glycol	1 pt.
	Butyl Alcohol	6 pt.
[illegible]	Benzene	14 pt. → possibly burn

DISPOSAL PACKET NUMBER

P77-022

REQUEST FOR DISPOSAL OF NONRADIOACTIVE HAZARDOUS MATERIAL 3/22/77

INSTRUCTIONS

Complete this request by providing all available information in the spaces provided. Fold, staple, and return completed form by plant mail to Environmental Protection.

I. CUSTODIAN

NAME TJ McLaughlin TELEPHONE 946-2737

BUILDING/AREA OSB/3000

II. IDENTIFICATION OF MATERIAL

TRADE NAME See Attachment

CHEMICAL NAME See Attachment

STORAGE LOCATION See Attachment

CONTAMINATED WITH RADIOACTIVE MATERIAL? YES ____ NO X

III. PACKAGING

LIQUID X SOLID ____ GAS X

NUMBER OF CONTAINERS 7 WEIGHT ____ EA. VOLUME ____ EA.

TYPE OF CONTAINER glass / metal AGE OF CONTAINER >5 years

IV. REASON FOR DISPOSAL

No longer useful chemicals used for R&D

V. DATE DISPOSAL REQUIRED

May 1, 1978

* VI. COMMENTS

Only item #2 on attached list is approved for disposal in the Central Landfill.

APPROVED FOR DISPOSAL BY R.L. Durham

DATE 3/29/77

DISPOSAL LOCATION Chemical Trench - Central Landfill.

BY ____

DATE ____

0000083

* See item VI. COMMENTS

9112210020

	Chemical*	(No. Containers) Quantity	Location	Generator
1*	PCB's	(2) - 4 liters	PSL	D. Elliot/1607
2+	Unknown Organics	(3) - 10 liters	PSL	D. Elliot/1607
3+	Hydrogen Fluoride (gas)	< 1 Kg(net)	PSL	D. Elliot/1607
4*	Phenylarsene Oxide Titrant	(o.1N) - 2 liters	3720	J. Douglas/151

*It is proposed to package these materials in a drum filled with "dicasorb" for ultimate disposal in the chemical trench.

+ Only item 2 is approved for disposal in the Central Landfill. Please refer to the attached letter

Atlantic Richfield Hanford Company
Federal Building
Richland, Washington 99352
Telephone 509 942-7411

March 28, 1977

Battelle Memorial Institute
Pacific Northwest Laboratories
Richland, Washington 99352

Attention: Mr. T. J. McLaughlin

Subject: DISPOSAL OF NONRADIOACTIVE HAZARDOUS MATERIAL

Gentlemen:

I have reviewed your Request for Disposal of Nonradioactive Hazardous Material and found I cannot approve the polychlorinated biphenyl, phenylarsene oxide titrant, or the hydrogen fluoride. I will approve the unknown organics since it is of such small volume.

The polychlorinated biphenyls and the phenylarsene oxide titrant are carcinogenic in nature and therefore cannot be approved since they require concrete encasement before burial. I suggest you handle the hydrogen fluoride as we discussed during our March 22, 1977 telephone conversation and contact Mr. E. A. Weakley (2-3378) for possible disposal in the chemical waste disposal system operated by United Nuclear Industries, Incorporated.

The containers of the unknown organics should be individually sealed prior to packing with an absorbant material (such as "dicasorb") and sealing in a metal container.

Arrangements for transportation of the material should be made through Mr. M. E. Clark (2-6748) of Transportation, Utilities, and Maintenance Systems, Atlantic Richfield Hanford Company. Please include the approved disposal permit with the shipment of the material to the landfill to be signed and returned to me at the Environmental Protection Section, ARHCO, by the operator disposing of the material.

Thank you for your cooperation.

Very truly yours,

R. L. Dirkes

R. L. Dirkes
Environmental Engineer

RLD:kkc

Att.

cc: ME Clark, w/att.

0000085

polychlorinated biphenyls:

① see chlorodiphenyls

② see chlorinated diphenyls

- recognized mutagen, potential carcinogen
- highly toxic

Unknown Organics: ? small volume

Hydrogen Fluoride: (gas

① see ~~hydrogen~~ hydrofluoric acid

- highly toxic

Phenylarsine Oxide Titrant:

- arsenic compounds → carcinogenic
  → herbicide, rodenticide

0000086

DISPOSAL PACKET NUMBER

P77-025

REQUEST FOR DISPOSAL OF NONRADIOACTIVE HAZARDOUS MATERIAL

INSTRUCTIONS

Complete this request by providing all available information in the spaces provided. Fold, staple, and return completed form by plant mail to Environmental Protection.

I. CUSTODIAN

NAME L. L. OSBORNE TELEPHONE 942-3349

BUILDING/AREA 334 BLDG - 300 AREA

II. IDENTIFICATION OF MATERIAL

TRADE NAME SEE SEPARATE SHEET

CHEMICAL NAME " " "

STORAGE LOCATION HEDL STORAGE YARD

CONTAMINATED WITH RADIOACTIVE MATERIAL? YES ____ NO X

I. PACKAGING

LIQUID ____ SOLID X GAS ____ SEPARATE SHEET

NUMBER OF CONTAINERS ____ WEIGHT ____ EA. VOLUME ____ EA.

TYPE OF CONTAINER ____ AGE OF CONTAINER ____

IV. REASON FOR DISPOSAL

OLD CHEMICAL

V. DATE DISPOSAL REQUIRED

MAY 1977

VI. COMMENTS

AN ACCUMULATION OF OLD CHEM. STOCK REMOVED FROM WAREHOUSE.

APPROVED FOR DISPOSAL BY Ken L. Parker

DATE 5/3/77

DISPOSAL LOCATION Chem-Trench

BY ____

DATE ____

0000036

9112224034025

						chemical name
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Ion exchange cleaner
1	[illegible]	[illegible]	[illegible]	[illegible]	no.	odium Phosphate Tri[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	o.	Indicating-CAF-Acid Scale cleaner
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] cement
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

9 1 1 2 2 4 3 1 0 2 6

POOR COPY RECEIVED

Atlantic Richfield Hanford Company
Federal Building
Richland, Washington 99352
Telephone 509 942-7411

May 31, 1977

Hanford Engineering Development Laboratory
Federal Building
Richland, Washington 99352

Attention: Mr. L. L. Osborne

Subject: REQUEST FOR DISPOSAL OF HAZARDOUS MATERIAL

Gentlemen:

We are able to accept the following materials from your list for disposal in the Central Landfill upon meeting certain conditions. We will accept the ion exchange cleaner, sodium phosphate tribastic, cement, caustic, and salt. Because of the unstable nature of some of these materials, the following conditions shall be met. The material should be placed in 55-gallon drums with the void spaces filled with an absorbant material (such as vermiculite) and the drums sealed.

I have found a useful means of disposing of the nitrogen fertilizer. It will be used in our program involving the revegetation of disturbed areas on the site. Arrangements for transfer of the fertilizer should be made with Mr. D. A. Marsh, (2-2486). I have spoken to him concerning this matter.

We cannot accept the Indicating-SAF-acid scale cleaner due to its reactive nature. If more information were available concerning this material, it may be possible to find a satisfactory disposal method. Mr. E. A. Weakley (2-3378) of UNI may be able to handle this material if it proves to be compatible with his wastes. I suggest you contact him concerning this material.

Very truly yours,

Roger L. Dirkes

Roger L. Dirkes
Environmental Engineer

Att.

cc: ME Clark, w/att.

0000038

DISPOSAL PACKET NUMBER

P83-017

HEHF

✓ REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

P1 of 2

2-15

GENERATION: The Generator should complete Part I and forward this form to: WS&DT 202-S/200 West Rockwell

A. Generator's Name: M K Hamilton Phone: 6-6980 Address: 747 Bldg Company: HEHF

B. Custodian's Name: Same Phone: Address: Company:

C. Waste Description: (If more than five items, attach additional sheets)

	Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
EHW	1. Acetonitrile	8.5 qt.	glass bottles	13		X		EHW - U003
	2. Sulfanilic Acid	11 lb.	"	11	X			
	3. Sulfanilamide	4 kg.	"	8	X			
	4. Potassium persulfate	500 g.	"	1	X			
	5. Chloramine T (cont.)	250 g	"	1	X			

D. Have appropriate labels been affixed to containers? X Not required All original manufacturer's packaging except oils

E. Have efforts been made to recycle (e.g., excess) waste? yes - by RHO

F. Has waste been treated in any manner? No If so, how?

G. Storage Location: 747 Bldg.

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number:

Generator's Signature: Maureen K. Hamilton Date: 3-17-83

II. APPROVAL

A. Approved for disposal by Name: Gary R. Cox Phone: 3-3679 Address: 202-S/200-W Co.: Rockwell

Date: March 30, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): Number 1 goes to 212-P for storage and offsite shipment. Numbers 1 & 6 go to 2727-S for storage and offsite shipment. #2, 3, 4, 5 to Chemical Trench.

C. Disposal Location: X Chemical Trench, Asbestos Trench,

(check one) 37 212-P (Storage), 2727-S for offsite shipment Other

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: [illegible] Phone: 6-6654 Address: 1171 Company: RHO

B. Date Transported/Disposed: 4-14-83

C. Transporter(s) Signature: [illegible]

000006?

BC-6700-174.1 (N-1-82)

2-17-83 - P.2

HEHE

2 of 5

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
6. N-1-naphthylene diamine dihydrochloride	700g.	glass bottle	7	X			
7. Assorted oil (some with ~1L)		glass bottles - glass + plastic	36		X		
8. PCB - sent to EHS for analysis, mostly by EHO							
EHW 9. orthomethoxy phenol	400ml	glass	4		X		
10.							
11.							
12.							
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32.							
33.							
34.							0000063

BC-6700-174.2 (N-1-82)

9112243 1030

HAZARDOUS WASTE MANIFEST

THIS MEMORANDUM

is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy of document, covering the property named herein, and is intended solely for filing or record.

MANIFEST DOCUMENT NUMBER

XZ87-003

2/15

TO:	FROM:
T/S/D FACILITY Rockwell Hanford Op.	Generator Hanford Environmental Health Foundation
E.P.A. ID Code No.	E.P.A. ID Code No.
Address Chemical Trench/200W	Address 7A1 Bldg/700 Area
Destination	Origin
Phone 373-3679	Phone 376-6960

No.	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Hazardous Substance	EPA Waste No.	WEIGHT	LABELS REQUIRED (or Exception No.)
11	Sulfanilic acid				11 lb.	
8	Sulfanilamide				4 kg.	
1	Potassium persulfate				500 g.	
1	Chloramine T				250 g.	

PLACARDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY Rockwell Hanford Op.
E.P.A. ID Code No. _____
Address 200E/200W
Destination

EMERGENCY RESPONSE INFORMATION

CONTACT Name Gary W. Cox
Phone 373-3679

National Response Center 1-800-424-8802
in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature [illegible] Date 4 14 [illegible]

TRANSPORTER #1 [illegible] E.P.A. ID No. _____
Address [illegible]
City [illegible] State [illegible] Zip [illegible] Phone [illegible]

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature [illegible] Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____
Address _____
City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature _____ Date _____

T/S/D F COPY 0000064

DISPOSAL PACKET NUMBER

P83-020

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

1-35

I. **GENERATION:** The Generator should complete Part I and forward this form to: WS&DT, 202-S/200 West, Rockwell

A. Generator's Name: G.L. Gurwell Phone: 3-3490 Address: 2704-S, 200W Company: RHO

B. Custodian's Name: T.A. Lane Phone: 3-2426 Address: 234-5Z, 200W Company: RHO

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. BENZENE	7 pts.	GLASS	7		X		
2. P-DIOXANE	2 gal.	GLASS	4-½ gal.		X		
3. 1-OCTANOL	5½ gal	GLASS	5-½ GAL.		X		
4. TOLUENE	6 pts	GLASS	6		X		
5. THERMITE	~70 lbs	METAL CANS	~7	X			

D. Have appropriate labels been affixed to containers? _____ Not required CONTAINERS LABELLED.

E. Have efforts been made to recycle (e.g., excess) waste? Yes.

F. Has waste been treated in any manner? N/A If so, how? _____

G. Storage Location: RM 179-B + DOCK #5 234-5Z FACILITY.

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: WILL BE SURVEYED.

Generator's Signature: G.L. Gurwell Date: February 1, 1983

II. **APPROVAL**

A. Approved for disposal by Name: G.R. Cox Phone: 3-3679 Address: 202-S/200W Co.: RHO

Date: 2/10/83 Signature: G.R. Cox

B. Packaging Requirements (specify): The Extremely Hazardous Waste must be packaged in one container for offsite shipment (#1,4,7); #2,3,6,8 may be packaged together for burial at the Central Landfill; #5 hold separate and obtain the Manufacturers Data Sheet for.

C. Disposal Location: _____ Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), Offsite-Arlington OR Other

III. **TRANSPORTATION/DISPOSAL**

a. Transporter(s) Name L.L. Davis Phone 66554 Address: 1171 Company Rock

b. Date Transported/Disposed: 5-5-83

c. Transporter(s) Signature: D.E. Phelps Chemical Trench

0000047

BC-6700-174.1 (N-1-82)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
6. TRITONX-100 ★	2 qts.	GLASS	2		X		
7. ETHYLENE TETRO CHLORO- EHW	10 pts.	GLASS	10		X		
8. BENZENE 1,2,4 TRICHLORO- ~20 Kgs (reacts w/ oxidizers)		GLASS	19		X		
9.							
10.							
11. ★ Alkylaryl polyether alcohol							
12.							
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1-3

0000045

EC-4700-174.2 (N-1-82)

9112271034

DRUM # 2 — Central Lab

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. BENZENE 1,2,4 TRICHLORO -	19Kgs	~Quart Glass	19		X		13
2. TRITON X-100	2qts.	Quart Glass	2		X		
3. P-DIOXANE	2gal.	1/2 gal Jug.	4		X		
9. 1-OCTANOL	4Kg's	1/2 Gal. Jug	4		X		
10.							
11.							
12.							
13.							
14							
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31.							
12.							
33.							
34.							

0000049

9112221031035

#C-6700-174.2 (N-1-82)

5-5-83

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT, 202-S/200 West, Rockwell

A. Generator's Name: G.L. Gurwell Phone: 3-3490 Address: 2704-S, 200W Company: RHO

B. Custodian's Name: T.A. Lane Phone: 3-2426 Address: 234-5Z, 200W Company: RHO

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. Benzene EHW	7 pts.	Glass	7		X		
2. P-Dioxane	2 gal.	Glass	4-½ gal.		X		
3. 1-Octanol	5½ gal	Glass	5-½ Gal.		X		
4. Toluene EHW	6 pts	Glass	6		X		
5. Thermite Expl.	~70 lbs	Metal Cans	~ 7	X			

D. Have appropriate labels been affixed to containers? _____ Not required Containers labelled.

E. Have efforts been made to recycle (e.g., excess) waste? Yes.

F. Has waste been treated in any manner? N/A. If so, how? _____

G. Storage Location: RA 174-B + Dock #5 234-5Z Facility.

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: Will be Surveyed.

Generator's Signature: G.L. Gurwell Date: February 1, 1983

II. APPROVAL

A. Approved for disposal by Name: G.R. Cox Phone: 3-3679 Address: 202-S/200W Co.: RHO

Date: 2/10/83 Signature: Gary R. Cox

B. Packaging Requirements (specify): The Extremely Hazardous Waste must be packaged in one container for offsite shipment (#1,4,7). #2,3,6,8 may be packaged together for burial at the Central Landfill, #5 must be separate and obtain the Manufacturers Data Sheet for.

C. Disposal Location: _____ Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), Offsite-Arlington, OR Other

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name L. L. Davis Phone 66554 Address: 1171 Company Rock

B. Date Transported/Disposed: 5-5-83

C. Transporter(s) Signature: D E Phelps Chemical Trench

2-6700-174.1 (N-1-82)

- 000238

9 1 1 2 2 4 3 1 0 3 6

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
6. TRITONIX-100 ★	2 qts	GLASS	2		X		
7. ETHYLENE TETRA CHLORO- EHW	10 pts	GLASS	10		X		
8. BENZENE 1,2,4 TRICHLORO- reacts w/ oxidizers	~20 kgs	GLASS	19		X		
9.							
10.							
11. ★ alkylaryl polyether alcohol							
12.							
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9 1 1 2 2 0 1 0 3 7

DRUM # 2 — [illegible]

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. BENZENE 1,2,4 TRICHLORO-	19Kgs	QUART GLASS	19		X		
2. TRITON X-100	2qts.	QUART GLASS	2		X		
3. P-DIOXANE	2gal.	1/2 gal JUG.	4		X		
9. 1-OCTANOL	4Kg's	1/2 Gal. JUG	4		X		
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BC-6700-174.2 (N-1-82)

9 1 1 2 2 0 1 0 3 8

DISPOSAL PACKET NUMBER

P83-022

REQUEST FOR DISPOSAL OF NONRADIOACTIVE HAZARDOUS MATERIAL

2/17

INSTRUCTIONS

Complete this request by providing all available information in the spaces provided. Fold, staple, and return completed form by plant mail to Environmental Protection.

I. CUSTODIAN M.L. McCollom

NAME M.L. McCollom TELEPHONE 376-6706

BUILDING/AREA 1167-A 1100

II. IDENTIFICATION OF MATERIAL

TRADE NAME See Attached List

CHEMICAL NAME

STORAGE LOCATION 1167- (4723)

CONTAMINATED WITH RADIOACTIVE MATERIAL? YES ____ NO X

III. PACKAGING

LIQUID ____ SOLID ____ GAS ____

NUMBER OF CONTAINERS ____ WEIGHT ____ EA. VOLUME ____ EA.

TYPE OF CONTAINER ____ AGE OF CONTAINER ____

IV. REASON FOR DISPOSAL

Not usable - No interest shown by other agencys, nor any public sale interest

V. DATE DISPOSAL REQUIRED

8-1-83

VI. COMMENTS

See attached list for disposition.

APPROVED FOR DISPOSAL BY Larry R Cox

DATE March 28, 1983

DISPOSAL LOCATION Land fill DE Pike Chemical Trench

BY

DATE 5-12-83

0000065

CHEMICALS IN METAL BUILDING

2-17

DOE #	CHEMICAL	QUANTITY
1 * 5432-02	AMMONIA SOL. STRONG reacts with oxidizers	60 - 48 LB GL JRS
- 5432-03	AMMONIUM BIFLUORIDE reacts w/acid = toxic	2
- 5432-04	CALCIUM FLUORIDE reacts w/acids = toxic	1 - 25LB JAR
- 5432-06	CHEL DTPA 41 (SODIUM SALT)	1 - 55 GAL DRM (600 LB)
- 5432-07	SODIUM SALT	1 - FIB DRM (200LB)
2 * 5432-08	MAGNESIUM NITRATE CRYSTAL oxidizer	9 - FIB DRM (100 LB)
2 * 5432-09	NITRILOTRIACETIC ACID very toxic	4 - 55 GAL DRM
- 5432-10	RARE EARTH CARBONATE	8 - FIB DRM (150 LB)
1 * 5432-11	NALCO 5 - SODIUM ALUMINATE	26 - 55 GAL. DRM
- 5432-13	SODIUM SULFATE reacts w/oxidizer	1 - FIB DRM (250 LB)
- 5432-14	STRONTIUM CARBONATE 99.7%	3 - FIB DRM (100 LB)
- 5432-24	FLOCULANT } TOTAL →	3 - FIB DRM (100 LB)
- 5432-25	FLOCULANT }	
- 5432-27	TOLFLOC COAG. FLOCULANT } TOTAL →	3 - 5 GAL BKTS
- 5432 28	" " " }	
2 * 5778-31	NICKELOUS NITRATE oxidizer	1 - FIB DRM

PDR #		
- N/A	CALCIUM reacts with oxidizers	11 - SHORT MTL DRM
1 * RHO-81-526	AEROSOL OT	18 - 1 GAL GL JG

*To 2727-S Building for storage while awaiting offsite shipment.

- To Central Landfill for disposal

0000066

HAZARDOUS WASTE MANIFEST

THIS MEMORANDUM

is an acknowledgement that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy of such Bill, covering the property named herein, and is furnished solely for filing or record.

MANIFEST DOCUMENT NUMBER

TO:		FROM:	
T/S/D FACILITY	CENTRAL LANDFILL	Generator	ROCKWELL HANFORD OPERATIONS
E.P.A. ID Code No.	WA 789-000-8967	E.P.A. ID Code No.	WA 789-000-8967
Address	HANFORD OPERATIONS	Address	BLDG. 1167, 1100 AREA
Destination	RICHLAND, WA 99352	Origin	EXCESS PROPERTY ACTIVITY
Phone	373-3679	Phone	376-6706

No.	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Hazardous Waste No.	EPA Haz Waste Code	WEIGHT	LABELS REQUIRED (or Exception No)
3	TULFLOC COAGULANT FLOCCULANT (ORGANIC)	NONE	NONE		100 lbs	NONE
1	SODIUM SALT	NONE	NONE		600 lbs	NONE
1	SODIUM SALT	NONE	NONE		200 lbs	NONE
1	CALCIUM FLUORIDE	NONE	NONE		25 lbs	NONE
8	RARE EARTH CARBONATE	NONE	NONE		1200 lbs	NONE
1	SODIUM SULFATE	NONE	NONE		250 lbs	NONE

PLACARDS REQUIRED NONE

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to the usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY _____

E.P.A. ID Code No. _____

Address _____

Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name _____

Phone _____

National Response Center 1-800-424-8802

in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature C.J. Hauser C.J. HAUSER Date 5-16-83

TRANSPORTER #1 ROCKWELL HANFORD OPERATIONS E.P.A. ID No. WA 789-000-8967

Address P.O. BOX 300, BLDG. 1171

City RICHLAND, WA State WA Zip 99352 Phone 376-6178

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature _____ Date _____

T/S/D F COPY

000008

REQUEST FOR DISPOSAL OF NONRADIOACTIVE HAZARDOUS MATERIAL

2-19

INSTRUCTIONS

Complete this request by providing all available information in the spaces provided. Fold, staple, and return completed form by plant mail to Environmental Protection.

I. CUSTODIAN M.L. McCollom

NAME M.L. McCollom TELEPHONE 376-6706

BUILDING/AREA 1167-A 1100

II. IDENTIFICATION OF MATERIAL

TRADE NAME See Attached List

CHEMICAL NAME

STORAGE LOCATION 1167-(4723)

CONTAMINATED WITH RADIOACTIVE MATERIAL? YES ____ NO X

PACKAGING

FLUID SOLID GAS

NUMBER OF CONTAINERS WEIGHT EA. VOLUME EA.

TYPE OF CONTAINER AGE OF CONTAINER

III. REASON FOR DISPOSAL

Not usable - No interest shown by Other agencys, nor any Public Sale interest

IV. DATE DISPOSAL REQUIRED

4-1-83

V. COMMENTS

For Disposal at Central Landfill.

APPROVED FOR DISPOSAL BY Leon R. Cox

DATE March 24, 1983

DISPOSAL LOCATION Land Fill Chemical Trench

BY D.E. Phelps

DATE 5-12-83

0000065

CHEMICALS IN METAL BUILDING

2-19

DOE #	CHEMICAL	QUANTITY
5432-12	SILICA GEL-ACTIVATED DESSICANT	10 FIB DRM
5432-17	SILICA GEL	4 DRM (100 LB)
5432-21	POWDERED CLAY	25 - 50 LB BAG
5432-23	OLIN 5004 COAGULANT AID	7 - 50 LB BAG

HAZARDOUS WASTE MANIFEST

THIS MEMORANDUM

MANIFEST DOCUMENT NUMBER

TO:		FROM:	
T/S/D FACILITY	CENTRAL LANDFILL	Generator	ROCKWELL HANFORD OPERATIONS
E.P.A. ID Code No.	WA 789-000-8967	E.P.A. ID Code No.	789-000-8967
Address	HANFORD RESERVATION	Address	BLDG. 1167, 1100 AREA
Destination	RICHLAND, WA 99352	Origin	EXCESS PROPERTY ACTIVITY
Phone	376-3679	Phone	376-6706

	PROPER SHIPPING NAME	HAZARD CLASS	ID	EPA Haz Waste	WEIGHT	LABELS REQUIRED (or Exception No.)
1	AMMONIUM HYDROGEN FLUORIDE, SOLID	CORROSIVE	UN-1727			CORROSIVE
11	CALCIUM, METAL	FLAMABLE SOLID	UN-1404		1000 lbs	FLAMABLE SOLID DANGEROUS WHEN WET
x3	SILICA GEL	NONE	NONE		300 lbs	NONE
25	POWDERED CLAY	NONE	NONE		1250 lbs	NONE
7	CLIN 5004 COAGULANT AID	NONE	NONE		350 lbs	NONE
10	SILICA GEL-ACTIVATED DESSICANT	NONE	NONE		1000 lbs	NONE

PLACARDS REQUIRED FLAMABLE SOLID X /CORROSIVE

NOTE - Where the rate is dependent on value, shippers are required to state specifically the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED subject to the classifications and lawful tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY NONE

E.P.A. ID Code No. _____

Address _____

Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name _____

Phone _____

National Response Center 1-800-424-8802

in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature C.D. Hansen Date 5-15-93

TRANSPORTER #1 ROCKWELL HANFORD OPERATIONS E.P.A. ID No. WA-789-000-8967

Address PO BOX 300, BLDG. 1171

City RICHLAND, WA State WA Zip 99352 Phone [redacted] 376-6178

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature _____ Date _____

0060070

T/S/D F COPY

HAZARDOUS WASTE MANIFEST

THIS MEMORANDUM

is an acknowledgement that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy of duplicate, covering the property named herein, and is intended solely for filing or record.

MANIFEST DOCUMENT NUMBER

TO:	FROM:
T/S/D FACILITY CENTRAL LANDFILL	Generator ROCKWELL HANFORD OPERATIONS
E.P.A. ID Code No. WA 789-000-8967	E.P.A. ID Code No. WA 789-000-8967
Address HANFORD RESERVATION	Address BLDG. 1167, 1100 AREA
Destination RICHLAND, WA 99352	Origin EXCESS PROPERTY ACTIVITY
Phone 373-3679	Phone 376-6796

	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	DOT UN/NA NO.	EPA Hazardous Waste No.	WEIGHT	LABELS REQUIRED (or Exemption No.)
3	STRONTIUM CARBONATE	NONE	NONE	NONE	300 lbs	NONE
3	FLOCULANT	NONE	NONE	NONE	300 lbs	NONE

PLACARDS REQUIRED NONE

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED subject to the classifications and lawful tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)	EMERGENCY RESPONSE INFORMATION
T/S/D FACILITY _____	CONTACT Name _____
E.P.A. ID Code No. _____	Phone _____
Address _____	National Response Center 1-800-424-8802
Destination _____	in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature C.D. Hansen C.D. HANSEN Date 5-26-83

TRANSPORTER #1 ROCKWELL HANFORD OPERATIONS E.P.A. ID No. WA 789-000-8967

Address PO BOX 800, BLDG. 1171

City RICHLAND, WA State WA Zip 99352 Phone 376-6173

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature _____ Date _____

T/S/D F 30.7 0000071

13.0

REQUEST FOR DISPOSAL OF NONRADIOACTIVE HAZARDOUS MATERIAL

INSTRUCTIONS

Complete this request by providing all available information in the spaces provided. Fold, staple, and return completed form by plant mail to Environmental Protection.

I. CUSTODIAN M L McCollom

NAME M L McCollom TELEPHONE 376-6706

BUILDING/AREA 1167-A 1100

II. IDENTIFICATION OF MATERIAL

TRADE NAME See Attached List

CHEMICAL NAME

STORAGE LOCATION 1167- (#723)

CONTAMINATED WITH RADIOACTIVE MATERIAL? YES ___ NO X

III. PACKAGING

LIQUID ___ SOLID ___ GAS ___

NUMBER OF CONTAINERS ___ WEIGHT ___ EA. VOLUME ___ EA.

TYPE OF CONTAINER ___ AGE OF CONTAINER ___

IV. REASON FOR DISPOSAL

Not usable - No interest shown by other agencys, nor any public sale interest

V. DATE DISPOSAL REQUIRED

5-1-83

VI. COMMENTS

See attached list for disposition.

APPROVED FOR DISPOSAL BY R Cox

DATE March 28, 1983

DISPOSAL LOCATION Land fill DE Phillips Chemical Trench

BY

DATE 5-12-83

000244

CHEMICALS IN METAL BUILDING

DOE #	CHEMICAL	QUANTITY
1 * 5432-02	AMMONIA SOL. STRONG reacts with oxidizer 60	- 48 LB GL JR
- 5432-03	AMMONIUM BIFLUORIDE reacts w/acid = toxic 2	
- 5432-04	CALCIUM FLUORIDE reacts w/acids = toxic	1 - 25LB JAR
- 5432-06	CHEL DTPA 41 (SODIUM SALT)	1 - SS GAL DRM (600 LB)
- 5432-07	SODIUM SALT	1 - FIB DRM (200 LB)
2 * 5432-08	MAGNESIUM NITRATE CRYSTAL oxidizer 9	- FIB DRM (100 LB)
2 * 5432-09	NITRILOTRIACETIC ACID very toxic	4 - SS GAL DRM
- 5432-10	RARE EARTH CARBONATE	8 - FIB DRM (150 LB)
1 * 5432-11	NALCO 5 - SODIUM ALUMINATE	26 - SS GAL. DRM
- 5432-13	SODIUM SULFATE reacts w/oxidizer	1 - FIB DRM (250 LB)
- 5432-14	STRONTIUM CARBONATE 99.7%	3 - FIB DRM (100 LB)
- 5432-24	FLOCULANT } TOTAL →	3 - FIB DRM (100 LB)
- 5432-25	FLOCULANT }	
- 5432-27	TOLFLOC COAG. FLOCULANT } TOTAL →	3 - 5 GAL BKTS
- 5432 28	" " "	
1 * 5778-31	NICKELOUS NITRATE oxidizer	1 - FIB DRM

PDR #		
- N/A	CALCIUM reacts with oxidizers	11 - SHORT MTL DRM
1 * RHO-81-526	AEROSOL OT	18 - 1 GAL GL JR

* To 2727-S Building for storage while awaiting offsite shipment.
- To Central Landfill for disposal

HAZARDOUS WASTE MANIFEST

THIS SHIPPING ORDER Must be legibly filled in, in indelible lettering, or in Carbon, and retained by the Agent.

MANIFEST DOCUMENT NUMBER

TO:		FROM:	
T/S/D FACILITY	CENTRAL LANDFILL	Generator	ROCKWELL HANFORD OPERATIONS
E.P.A. ID Code No.	WA 789-000-8967	E.P.A. ID Code No.	WA 789-000-8967
Address	HANFORD OPERATIONS	Address	BLDG. 1167, 1100 AREA
Destination	RICHLAND, WA 99352	Origin	EXCESS PROPERTY ACTIVITY
Phone	373-3679	Phone	376-6706

No.	DOT PROPER SHIPPING NAME	HAZARD CLASS	[illegible]	EPA [illegible]	WEIGHT	LABELS REQUIRED (or Exemption No.)
3	TOLFLOC COAGULANT FLOCULANT (ORGANIC)	NONE	NONE		100 lbs	NONE
1	SODIUM SALT	NONE	NONE		600 lbs	NONE
1	SODIUM SALT	NONE	NONE		200 lbs	NONE
1	CALCIUM FLUORIDE	NONE	NONE		25 lbs	NONE
8	RARE EARTH CARBONATE	NONE	NONE		1200 lbs	NONE
1	SODIUM SULFATE	NONE	NONE		250 lbs	NONE

PLACARDS REQUIRED NONE

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. This agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY _____

E.P.A. ID Code No. _____

Address _____

Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name _____

Phone _____

National Response Center 1-800-424-8802 in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature C.D. Hansen C.D. HANSEN Date 5-19-83

TRANSPORTER #1 ROCKWELL HANFORD OPERATIONS E.P.A. ID No. WA 789-000-8967

Address P.O. BOX 800, BLDG. 1171

City RICHLAND, WA State WA Zip 99352 Phone 376-6178

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature N E Thaler Chemical Trench Date 5-19-83

TRANSPORTER #1 COPY 000246

HAZARDOUS WASTE MANIFEST

THIS SHIPPING ORDER [illegible] MANIFEST DOCUMENT NUMBER

TO:	FROM:
T/S/D FACILITY CENTRAL LANDFILL	Generator ROCKWELL HANFORD OPERATIONS
E.P.A. ID Code No. WA 789-000-8967	E.P.A. ID Code No. WA 789-000-8967
Address HANFORD RESERVATION	Address BLDG. 1167, 1100 AREA
Destination RICHLAND, WA 99352	Origin EXCESS PROPERTY ACTIVITY
Phone 373-3679	Phone 376-6706

Quantity	DOT PROPER SHIPPING NAME	HAZARD CLASS	[illegible]	[illegible]	WEIGHT	LABELS REQUIRED (or Exception No.)
3	STRONTIUM CARBONATE	NONE	NONE	NONE	300 lbs	NONE
3	FLOCULANT	NONE	NONE	NONE	300 lbs	NONE

PLACARDS REQUIRED NONE

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED, subject to the classifications and lawful tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classifications and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY _____

E.P.A. ID Code No. _____

Address _____

Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name _____

Phone _____

National Response Center 1-800-424-8802

in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature C R Hansen C.R. HANSEN Date 5 12 83

TRANSPORTER #1 ROCKWELL HANFORD OPERATIONS E.P.A. ID No. WA 789-000-8967

Address PO BOX 800, BLDG. 1171

City RICHLAND, WA State WA Zip 99352 Phone 376-6178

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature [illegible] Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature D E Phebe Chemical Treat Date 5 12 83

TRANSPORTER #1 COPY 000017

HAZARDOUS WASTE MANIFEST JB 911 22 31 050

REQUEST FOR DISPOSAL OF NONRADIOACTIVE HAZARDOUS MATERIAL

INSTRUCTIONS

Complete this request by providing all available information in the spaces provided. Fold, staple, and return completed form by plant mail to Environmental Protection.

CUSTODIAN M L McCollom

NAME M. L. McCollom TELEPHONE 376-6706

BUILDING/AREA 1167-A 1100

IDENTIFICATION OF MATERIAL

TRADE NAME See Attached List

CHEMICAL NAME

STORAGE LOCATION 1167-(#723)

CONTAMINATED WITH RADIOACTIVE MATERIAL? YES ____ NO X

PACKAGING

LIQUID SOLID GAS

NUMBER OF CONTAINERS WEIGHT EA. VOLUME EA.

TYPE OF CONTAINER AGE OF CONTAINER

REASON FOR DISPOSAL

Not usable - No interest shown by Other Agencys, nor any public sale interest

DATE DISPOSAL REQUIRED

4-1-83

COMMENTS

For Disposal at Central Landfill.

APPROVED FOR DISPOSAL

BY Gary R. Cox

DATE March 24, 1983

DISPOSAL LOCATION Land Fill Chemical Trench

BY D. E. Phelps

DATE 5-12-83

000248

CHEMICALS IN METAL BUILDING

DOE #	CHEMICAL	QUANTITY
5432-12	SILICA GEL-ACTIVATED DESSICANT	10 FIB DRM
5432-17	SILICA GEL	4 DRM (100 LB)
5432-21	POWDERED CLAY	25 - 50 LB BAG
5432-23	OLIN 5004 COAGULANT AID	7 - 50 LB BAG

HAZARDOUS WASTE MANIFEST

THIS SHIPPING ORDER

MANIFEST DOCUMENT NUMBER

TO:		FROM:	
T/S/D FACILITY	CENTRAL LANDFILL	Generator	ROCKWELL HANFORD OPERATIONS
E.P.A. ID Code No.	WA 789-000-8967	E.P.A. ID Code No.	789-000-8967
Address	HANFORD RESERVATION	Address	BLDG. 1167, 1100 AREA
Destination	RICHLAND, WA 99352	Origin	EXCESS PROPERTY ACTIVITY
Phone	376-3679	Phone	376-6706

No.	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	D.O.T. ID No.	EPA Waste No.	WEIGHT	LABELS REQUIRED (or Exemption No.)
1	AMMONIUM HYDROGEN FLUORIDE, SOLID	CORROSIVE	UN-1727			CORROSIVE
11	CALCIUM, METAL	FLAMMABLE SOLID	UN-1404		1000 lbs	FLAMMABLE SO & DANGEROU WHEN WET
1 x3	SILICA GEL	NONE	NONE		300 lbs	NONE
25	POWDERED CLAY	NONE	NONE		1250 lbs	NONE
7	OLIN 5004 COAGULANT AID	NONE	NONE		350 lbs	NONE
10	SILICA GEL-ACTUATED DESSICANT	NONE	NONE		1000 lbs	NONE

PLACARDS REQUIRED FLAMMABLE SOLID X /~~CORROSIVE~~

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the terms and conditions in the governing classifications on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY NONE

E.P.A. ID Code No. _____

Address _____

Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name _____

Phone _____

National Response Center 1-800-424-8802

in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature C.D. Hansen C.D. HANSEN Date 5-12-83

TRANSPORTER #1 ROCKWELL HANFORD OPERATIONS E.P.A. ID No. WA 789-000-8967

Address PO BOX 300, BLDG. 1171

City RICHLAND, WA State WA Zip 99352 Phone ~~[illegible]~~ 376-6178

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature Joe E Phelps Chemical Tech Date 5-12-83

TRANSPORTER #1 COPY

000250

J8 WASTE

9 1 1 2 2 4 1 0 5 3

HAZAR

DISPOSAL PACKET NUMBER

P83-027

1/ed. 6-1 5-55 ml. E-87917

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

1-21

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT, 202-S/200 West, Rockwell

A. Generator's Name: W. R. Buchanan Phone: 3-2181 Address: 234-5/200 W Company: RHO

B. Custodian's Name: B. R. Fitzpatrick Phone: 3-2283 Address: 234-5/200 W Company: RHO

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. SEE ATTACHED SHEETS							
2.							
3.							
4.							
5.							

D. Have appropriate labels been affixed to containers? YES Not required

E. Have efforts been made to recycle (e.g., excess) waste? WASTE OF NO USE

F. Has waste been treated in any manner? NO If so, how?

G. Storage Location: 234-5 LAB/200 W RHO

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: HAS BEEN SURVEYED

Generator's Signature: W R Buchanan Date: 12-3-82

II. APPROVAL

A. Approved for disposal by Name: G. R. Cox Phone: 3-3679 Address: 202-S/200-W Co.: Rockwell

Date: 2/16/83 Signature: G. R. Cox

B. Packaging Requirements (specify): As specified on attached sheets. EHN will go to the new storage facility in 200-West area until disposed of offsite.

C. Disposal Location: X Chemical Trench, Asbestos Trench,

(check one) 212-P (Storage), as specified Other

III. TRANSPORTATION/DISPOSAL

Transporter(s) Name: [illegible] Phone: 6-6654 Address: 1171 Company RHO

B. Date Transported/Disposed: Chemical Trench 6-1-83

C. Transporter(s) Signature: [illegible]

0000015

BC-6700-174.1 (N-1-82)

9112231055

X = ~~save~~ +

21

Note: Those items which require separate packa will go to the Central Landfill

ROOM 133 - OK

X	~~Tetrachloroethylene~~	~~1 pt.~~ +
X	~~Potassium Carbonate~~	~~1 lb.~~ +
X	~~Potassium Carbonate, Liquid~~	~~1 qt.~~ +
X	~~8 - Quinolinol~~	~~1/4 lb.~~ +
X	~~Kodak D-19 Developer~~	~~22 lb.~~ +
X	~~Kodak D-8 Developer~~	~~45 lb.~~ +

Room 134 - O.K.

X	~~H_2SO_4~~	~~1 gal.~~ +
X	~~HCl~~	~~1 gal.~~ +
X	~~HNO_3~~	~~2 gal.~~ +
	Hydroiodic Acid	10 pts. — separate package
	Tetrachloroethylene	1 pt. — EHW

Room 135 - O.K.

	Oxalic Acid (Corrosive)	1 lb. — separate package
	Ferrous Ammonium Sulfate	1 lb. — #3
	Sodium Hydroxide (Corrosive)	1 lb. — separate package
X	~~Dowex 50 Exchange Resin~~	~~3 lbs.~~ +
X	~~Dowex 1-X8 Exchange Resin~~	~~2 lbs.~~ +
X	~~AG 50W-X8 Exchange Resin~~	~~12 lbs.~~ +

141-A CABINET WITH SLIDING DOORS - O.K.

	Aluminum Chloride - don't mix with organics may explode on opening	1 lb. — separate package
	Aluminum Nitrate - see nitrates	1 lb. — separate package
	Ammonium Acetate	2 lbs. — #3
	Ammonium Bifluoride	1 lb. — #3
	Ammonium Molybdate	2 lbs. — #3
	Ammonium Phosphate	1 lb. — #3
	Ammonium Sulfate	2 lbs. — #3
	Ascorbic Acid Powder	9 lbs. — #3
	5-Amino-2 Naphtalene Sulfonic Acid	250 g. — EHW
	Sodium Meta Bisulfate	12 lbs. — #2
	Sodium Acetate	1 lb. — #3
	Ferric Chloride	1 lb. — #3
	Cerric Nitrate	1 lb. — #3
	Potassium Iodide	1 lb. — #2
	Silver Nitrate - very reactive, corrosive	4 oz. — EHW
	Sulfamic Acid	100 g. — #4
	Hydroxylamine Hydrochloride	115 g. — #4
	Phenol Red Sodium Salt	15 g. — EHW
	Sodium Carbonate	1 lb. — #3
	Ferrous Ammonium Sulfate	2 lb. — #3

REFRIGERATOR ACROSS FROM ROOM 157 — O.K.

Hypo-phosphorous Acid (reacts w/oxidizers forms phosphine)	3 pts.	separate package
~~Butyl Alcohol~~	~~1 pt.~~	#1
.5m TTA in Xylene	1 qt.	EHW
X ~~Valeric Acid~~	~~1 qt.~~	+
~~TIOA in Xelene~~	~~1 qt.~~	#1
Dibutyl Butylphosphonate (reacts w/oxidizers)	125 ml.	#4
Nitrobenzoene	1 pt.	EHW
Xylene	1 pt.	EHW
Collodion	250 ml.	#4
Toluene	1 pt.	EHW
Methyl Isobutyl Ketone	1 pt.	#4
Hydrozine in H_2O	125 ml.	EHW
Tri-Sil Z	25 ml.	#3
Agle Sulanilic Acid in 50% Acetic Acid	1 pt.	#4
Ferrous Sulfamate	50 ml.	#3
~~Triethanolumine~~	~~1 pt.~~	#1
$KMnO_4$ (Potassium Permanganate) oxidizer	1 qt.	#3
P (KH_2SO_4)	1 qt.	#3
1-Naphthylamine-7-Sulfomic Acid 50% Acetic Acid	1 pt.	EHW
Li 10-Phenanthroline Ferrous Sulfate Complex	125 ml.	#4

Room 143 CABINET #1 — O.K.

~~Sodium Bromate~~	~~1 lb.~~	#2
Sodium Bisulfate	1 lb.	#3
Sodium Bisulfate Monohydrate	3 lbs.	#3
Sodium Carbonate	1 lb.	#3
~~Sodium Metabisulfate~~	~~1 lb.~~	#2
Sodium Chloride	6 lb.	#3
Sodium Chromate	1 lb.	#3
~~Sodium Dichromate~~	~~4 lbs.~~	#2
~~Sodium Dithionite~~	~~2 lbs.~~	#2
~~Sodium Flouride~~	~~8 lbs.~~	#2
~~Sodium Hydrosulfate~~	~~1 lb.~~	#2
Sodium Iodide	~~1/4 lb.~~	#2
Sodium Nitrate	15 lb.	#3
Sodium Phosphate	~~2 lbs.~~	#2
Sodium Oxalate	~~1 lb.~~	#2
Sodium Metasilicate	4 lbs.	#2
Sodium Sulfate	2 lbs.	#2
Sulfamic Acid	5 lbs.	#4
Sodium Tartrate	1/4 lbs.	#3
Sodium Thiosulfate	1 lb.	#3
O-tolidine Dihydrochloride	1 lb.	#4
Trioctylphosphine	25 g.	EHW
Urea	1 lb.	#3

Room 143 CABINET #1-O.K.(CONT'D)

~~Drierite $CaSO_4$~~	~~20 lbs.~~ +
Ascarite	12 lbs. — #4
Acid Potassium Phthalate	1/4 lbs. #3
~~Salicylic Acid~~	~~2 lbs.~~ #1
~~Ag-1-X8 Anion Resin~~	~~6 lbs.~~ +

Room 143 CABINET #2 — O.K.

~~Barium Chloride~~	~~8 lbs.~~ #2
~~Cerium Nitrate~~	~~1/4 lb.~~ #2
Benzion Anti-Oxime	25 g. — EHW
~~Arsenic Trioxide~~	~~1/4 lb.~~ +
~~Ceric Sulfate~~	~~1 lb.~~ +
Cuprous Chloride	1 lb. — #3
Glycolic Acid	1/4 lb. — #4
Mercuric Chloride	1/4 lb. — EHW
Ferrous Ammonium Sulfate	6 lbs. — #3
Lithium Flouride	2 lbs. — #3
Hydroxylamine Hydrochloride HH_2OH-HCl	8 lbs. — #4
Magnesium Chloride	1 lb. — #3
Magnesium Perchlorate	1 lb. — #5 Separate package
~~Sodium Iodide~~	~~1/4 lb.~~ #2
~~Ferric Ammonium Sulfate~~	6 lbs. #2
~~H_2N - A Methyl P-NitroSoaniline~~	~~25 g.~~ #1
~~Lanthanum Nitrate~~	~~100 g.~~ #2
Diethylene Triamine Penta-acetic Acid	1/4 lb. — #4
P - (Dimethylamino) - Benzaldehyde	300 g. — EHW
~~Mercuric Thiocyonate~~	~~1 lb.~~ #2
Nickel Nitrate	1 lb. — #3
Potassium Sodium Tartrate	6 1/4 ~~lbs.~~ #2
Potassium Bromate	1 1/4 lb. — #3
~~Potassium Bromide~~	~~1 lb.~~ #2
~~Potassium Carbonate~~	~~1 lb.~~ #2
~~Potassium Chloride~~	1 lb. #2
Potassium Flouride	1 lb. — #3
Potassium Iodide	250 g. — #3
Potassium Hydrogen Phthalate	1/4 lb. — #3
Potassium Persulfate	1 lb. — #3
~~Potassium Phosphate~~	~~2 lbs.~~ #2
~~Salicylic Acid~~	~~2 lbs.~~ #1
Silver Peroxide	100 g. — EHW
~~Sodium Arsenite~~	~~1 lb.~~ #2
Sodium Bicarbonate	~~1 lb.~~ #2

ROOM 143 CABINET #3 — O.K.

Bromine reacts with reducers	1 lb. — #3
Sodium Oxalate	1 lb. #2
Acid Ansenious	1 lb. — separate package

Room 141-A METAL CABINET — O.K.

	Potassium Nitrate Crystals	3 lbs. — #3
	Potassium Chloride	1 lb. — #3
	Potassium Carbonate	1 lb. — #3
	~~Cupferron~~	~~1 oz.~~ #2
	Cupric Nitrate	1/4 lb. — #3
	Ferric Nitrate	1 lb. — #3
	Hydroxylamine Hydrochloride	1 lb. — #4
	Amadac - F	50 g. — EHW
	N-Phenylbenzohydroxamic Acid	25 g. — EHW
X	~~8-Quinolinol~~	~~1 oz.~~ +
X	~~8-Hydroxyquinoline~~	~~1/4 lb.~~ +
	Tetrapropylammonium Hydroxide	25 g. — #3
	~~Ammonium Iodide~~	~~1/4 lb.~~ #2
	Ferric Nitrate	1/4 lb. — #3
	~~Formaldehyde~~	~~1 pt.~~ #1
	~~Sodium Chloride~~	~~1 lb.~~ #2
	Sodium Oxalate	1 lb. — #3
	~~Sodium Flouride~~	~~1 lb.~~ #2
	1,10 Phenonthroline	120 g. — EHW
X	~~Flouride Adjustment Buffer~~	~~1 lb.~~ +
	~~Cupric Sulfate~~	~~5 lbs.~~ #2
+	~~Orion Std. Solutions~~	~~8 pts.~~ +

Room 141-A ICE BOX — O.K.

	Dibutyl Butylphosphonate reacts w/oxidizers	200 ml. — #4
	Dichloridimethylsilane reacts w/oxidizer	200 ml. — #4
	Hydrazine 35%	500 ml. — EHW
	DBSP Dibutyl butyl phosphonate	500 ml. — #4
X	~~Iron(II) Difluoride~~	~~1 lb.~~ +
	$KMnO_4$ (Potassium Permanganate)	250 ml. — #3
	~~Sodium Acetate~~	~~250 ml.~~ #2
	Hydrogen Peroxide	250 ml. — down the sink
	N-Tridecane	125 ml. — #4
	Formic Acid	250 ml. — #4
	~~N-Butyl Alcohol~~	~~250 ml.~~ #1
	~~Chloroform~~	~~250 ml.~~ #1
	Petroleum Ether	25 ml. — separate package
	CCl_4	50 ml. — EHW
	~~Formaldehyde~~	~~250 ml.~~ #1
	Nitrobenzene	1 kg. — EHW
	Formic Acid	250 ml. — #4
	Hydrazine 65% in H_2O	500 ml. — EHW
	~~Ferric Ammonium~~ Sulfate	~~500 ml.~~ #2
	Hydroxylamine Nitrate 15% Ag Sol.	500 ml. — EHW
	.5m TTA in xylene	1 gal. — EHW
	~~Chloroform~~	~~1 gal.~~ #1
	1% Oxine in Xylene	250 ml. — #1

Room 141-A -O.K.

X	~~H_2SO_4~~	~~5 gal.~~ +
X	~~HF~~	~~4 gal.~~ +
X	~~H_3PO_4~~	~~1 gal~~ +
X	~~Hypophosphorous Acid 50%~~	~~10 pt.~~ +
X	~~HCl~~	~~8 gal~~ +
X	~~Acetic Acid~~	~~2 gal.~~ +
X	~~HNO_3~~	~~1 gal.~~ +
	Tetrachloroethylene	1 pt. — EHW

Room 151 FLAMMABLE CABINET (NEAR) O.K.

Nitrobenzene	6 pts. — EHW
~~Dibutyl Phosphate~~	~~1 pt.~~ #1
Ceric Sulfate in one Normal H_2SO_4	1 pt. — #3
1 SoAmyl Alcohol	1 pt. — #4
~~1~~ 4-Dioxane	~~1 pt.~~ #1
Amyl Acetate reacts w/oxidizer	1 pt. — #4
2 Ethylhexylhydrogen Phosphite	125 ml. — EHW
Propylene Carbonate	~~1-gal.~~ #2
~~CCl_4~~	~~3-gal.~~ #1
Methymethocylate	1 gal. — #4
TEP Tributyl phosphate	1 gal. — #4
Tetrachloroethylene	1 pt. — EHW
Butylsteorate reacts w/oxidizer	2 gal. — #4
~~1, 1, 2, 2-Tetrabromoethane~~	~~1 gal.~~ #1

FLAMMABLE CABINET NEXT TO ROOM 139 -O.K.

	150 Amyl Alcohol	1 pt. — #4
	~~Butylacetate~~	~~5 gal.~~ #1
	~~Xylene~~	~~4 pts.~~ #1
X	~~Isopropyl Alcohol~~	~~2 gal.~~ +
X	~~Methanol~~	~~36 pts.~~ +
X	~~Acetone~~	~~36 pts.~~ +
	Methylisobutyl Ketone	5 pts. — #4

141-A CABINET WITH SLIDING DOORS (CONT'D) OK.

	~~Sodium Sulfite~~	~~1 lb.~~ #2
X	~~Orion Tisab III~~	~~250 ml.~~ +
X	~~Silver Oxide~~	~~150 g.~~ +
	~~Salicylic Acid~~	~~9 lbs.~~ #1
	Bromo Oresol Purple Sodium Salt	5 g. — #3
X	~~Cation Exchange Resin Ag 50x-X8 100-200 Mesh Hydrogen Form~~	~~1 lb.~~ +
X	~~An Ion Exchange Resin Biorex 9 50-100 mesh Chloride Form~~	~~10 lb.~~ +
	~~Sodium Bisulfate Monohydrate~~	~~10 lbs.~~ #2
	Ammonium Citrate	2 lbs. — #3
X	~~Drierite~~ (~~$CaSO_4$~~)	~~10 lbs.~~ +

Room 155 O.K.

	Phosphorous Pentoxide	1 lb. — #3
X	~~Ferrous Ammonium Sulfate~~	~~1 lb.~~ +
	Silver Nitrate	1/4 lb. — EHW
	~~Ammonium Oxalite~~	~~1 lb.~~ #2
	Sodium Hydroxide	1 lb. #3
	~~Fuming HNO_3 Pure~~	~~1/2 gal.~~ - separately packaged
X	~~HF~~	~~1 gal.~~ +
X	~~H_2SO_4~~	~~4 gal.~~ +
X	~~HCl~~	~~5 gal.~~ +
	.25m Lead Nitrate	1 qt. - EHW

Room 154 - O.K.

	Sodium Acetate	1 lb. — #3
	Magnesium Perchlorate - explosive oxidizer	3 lb. — separate package
	Ascarite	3 lb. — #4
	Hydroiodic Acid	20 pts. — separate package

Room 152 - O.K.

X	~~HNO_3~~	~~3 gal.~~ +

Room 145 - O.K.

Ammonium Oxalate 5-lbs. — #3

Note #1 must go offsite, move to M.H. Litzinger Memorial Blo

234-5 Z Plant Lab

Extremely Harzardous Waste

Formaldehyde - 1 pint, 250 ml.
Chloroform - 250 ml, 1 gallon.
Nitrobenzene - 1 Kg., 6 pints, 1 pint EHW
Hydrazine - 65% in H_2O 500 ml, 125 ml EHW
(root of absorbent)

Xylene - 4 pints.
1% Oxine in Xylene - 250 ml.
Carbon tetrachloride - 1 gallon.
TIOA in Xylene - 1 quart.

1

Oxidizers:

Cerric Nitrate - 1 lb. #3
Potassium Nitrate Crystals - 3 lb. #3
$KMnO_4$ - 250 ml #3
Potassium Bromate - 1¼ lb. #3
Bromine - 1 lb. #3

Hydrogen Peroxide - 250 ml - Sink disposal
Sodium Nitrate - 1 lbs. #3
Magnesium Perchlorate - 1 lb. #3
Lithium Nitrate - 1 lb. #3
Fuming HNO_3 - ½ gallon
.25 Lead Nitrate - 1 quart #3

requires separate packaging
Packaged separately

1,1,2,2-Tetrabromoethane - 1 gallon.

Reacts with oxidizers.
Butyl acetate - 5 gallons.
N-Butyl Alcohol - 75 ml
Dibutyl Phosphate - 1 pint.
Triethanolamine - 1 pint.

Hypophosphorus Acid 50% - 10 pints, 3 pints
Salicylic Acid - 1 lb., 9 lb., 2 lb.
1,4-Dioxane - 1 pint.
Butyl Alcohol - 1 pint.
150 Amyl Alcohol - 1 pint.

1

Reacts with reducers
[illegible]

Potassium Persulfate - 1 lb. #3

Explosive:
Cupric Nitrate ¼ lb.
Ferric Nitrate 1 lb., ¼ lb

Petroleum Ether - 25 ml.
Formic Acid - 250 ml., 250 ml

0000025

2 234-5 Z Plant Waste

Toxic:

Potassium Iodide-1lb.
Potassium Chloride-1lb.
Potassium Carbonate-1lb.
Potassium Sodium Tartrate-6¼lb.
Potassium Bromide-1lb.
Potassium Carbonate-1lb.
Potassium Phosphate-2lb.

Cupric Sulfate-5lb.
Ferric Amm Sulfate-500ml, 5lb.
Ammonium Iodide-¼lb.
Barium Chloride-1lb.
Cerium Nitrate-¼lb.
Lanthanum Nitrate-100g.
Mercuric Thiocyonate-1lb.
Ammonium Oxalite-1lb.
~~[illegible] Acid-1qt.~~

Sodium MetaBisulfate-12lb., 1lb.
Sodium Sulfite-1lb.
Sodium Bisulfate Monohydrate-10lb
Sodium Fluoride-1lb., 7lbs.
Sodium Acetate-250ml
Sodium Chloride-1lb.
Sodium Oxalate-1lb., 1lb.
Sodium Bromate-1lb.
Sodium Dicromate-1lb.
Sodium Dithionite-4lb.
Sodium Hydrosulfate-1lb.
Sodium Iodide-¼lb, ¼lb.
Sodium Phosphate-1lb.
Sodium Metasilicate-3lb.
Sodium Sulfate-1lb.
Sodium Arsenite-1lb.
Sodium Bicarbonate-1lb.
~~Sodium Hydroxide-1lb.~~

requires separate packaging

Organics

Ferrous Sulfamate-50ml.
Hydrofluoric Acid-10pints, 20pints
~~Complete~~ 2
Amadac-F-50g.
1-Pheneyl benzohydroxamic Acid-25g
Fluoride Adjustment Buffer-1lb.
Ferric Sulfate in [illegible] 50g-1pint
Ethylhexyl Hydrogen Phosphite-[illegible]ml

1-Phenanthroline Ferrous Sulfate Complex-125ml
O-toluidine Dihydrochloride-1lb.
Acid Potassium Phthalate-¼lb
Benzin[illegible] ~~Complete~~
N,N-A Methyl P-Rosaniline-25g
Acid [illegible]
~~Complete~~ 3
Methylmethacylate-1gallon organic

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ORGANIC CHEMICALS FOR DISPOSAL #1

- Xylene - 4 pints
- 1% Oxine in Xylene - 250 mL
- Carbon Tetrachloride - 3 gallon
- TIOA in Xylene - 1 quart
- Formaldehyde - 1 pint, 250 mL
- Chloroform - 250 mL, 1 gallon
- 1, 1, 2, 2 - Tetrabromoethane - 1 gallon
- Butylacetate - 5 gallons
- N-Butyl 7 Alcohol - 250 mL
- Dibutyl Phosphate - 1 pint
- Triethanolamine - 1 pint
- Salicylic Acid - 1 lb, 9 lb, 2 lb
- 1, 4 - Dioxane - 1 pint
- Butyl Alcohol - 1 pint
- ISO Amyl Alcohol - 1 pint
- Benzion Anti-Oxime - 25 g.
- N,N-A Methyl P-Nitrosoaniline - 25 g.

INORGANIC CHEMICALS FOR DISPOSAL #2

- Potassium Iodide - 1 lb
- Potassium Chloride - 1 lb
- Potassium Carbonate - 1 lb
- Potassium Sodium Tartrate - 6½ lb.
- Potassium Bromide - 1 lb
- Potassium Carbonate - 1 lb
- Potassium Phosphate - 2 lb
- Cupric Sulfate - 5 lb
- Ferric Ammonium Sulfate - 500 mL, 6 lb
- Ammonium Iodide - ½ lb
- Barium Chloride - 8 lb
- Cerium Nitrate - ½ lb
- Lanthanum Nitrate - ½ lb
- Mercuric Thiocyonate - 1 lb
- Ammonium Oxalite - 1 lb
- Sodium MetaBisulfate - 12 lb, 1 lb
- Sodium Bisulfate Monohydrate - 10 lbs
- CupFerrion - 1 oz.
- Propylene Carbonate - 1 gallon
- Sodium Bicarbonate - 1 lb
- Sodium Arsenite - 1 lb
- Sodium Sulfate - 1 lb
- Sodium Metasilicate - 3 lb
- Sodium Phosphate - 1 lb
- Sodium Iodide - ½ lb, ½ lb
- Sodium Hydrosulfate - 1 lb
- Sodium Dithionite - 4 lb
- Sodium Dichromate - 4 lb
- Sodium Bromate - 1 lb
- Sodium Oxalate - 1 lb, 1 lb
- Sodium Chloride - 1 lb
- Sodium Acetate - 250 mL
- Sodium Fluoride - 1 lb, 7 lbs
- Sodium Sulfite - 1 lb

#3 Inorganic Chemicals for Disposal

Rm 135 – Ferrous Ammonium Sulfate – 1lb.
Rm 141A – Ammonium Acetate – 2lbs.
Ammonium Biflouride – 1lbs.
Ammonium Molybdate – 2lbs
Ammonium Phosphate – 1lb.
Ammonium Sulfate – 2 lb.
Ascorbic Acid Powder – 9lb.
Sodium Acetate – 1lb.
Ferric Chloride – 1lb.
Cerric Nitrate – 1lb.
Sodium Carbonate – 1lb.
Ferrous Ammonium Sulfate – 2lb.
Tri-Sil Z – 25ml.
Ferrous Sulfamate – 50ml.
Potassium Permanqate – 1 quart
$P(KH_2SO_4)$ 1 quart
Rm. 141-A Potassium Nitrate – 3lb.
Potassium Chloride – 1lb.
Potassium Carbonate – 1lb.
Cupric Nitrate – ¼lb.
Ferric Nitrate – 1lb., ¼lb.
Sodium Oxalate – 1lb.
Rm 141-A Potassium Permanqate 250ml.
Rm 141-A Bromo Oresol Purple Sodium – 5gram
Ammonium Citrate – 2lbs.
tetrapropylammonium Hydroxide 25grams

Rm. 143 – Sodium Bisulfate – 1l
Sodium Bisulfate Monohydrate – 3lb.
Sodium Carbonate – 1lb.
Sodium Chloride – 6lb.
Sodium Chromate – 1lb.
Sodium Nitrate – 15lb.
Sodium Tartrate – ¼lb.
Sodium Thiosulfate – 1lb.
Urea – 1lb.
Acid Potassium Phthalate ¼lb.
Cuprous Chloride – 1lb.
Ferrous Ammonium Sulfate – 6lb.
Lithium Flouride – 2lb.
Magnesium Chloride – 1lb.
Nickel Nitrate – 1lb.
Potassium Bromate – 3lb.
Potassium Flouride – 1lb.
Potassium Iodide – 250g.
Potassium Hydrogen Phthalate – ¼lb.
Potassium Persulfate – 1lb
Bromine – 1lb.
Rm 151 – Cerric Sulfate in H_2SO_4 – 1pint
Rm. 155 – Phosphorus Pentoxide – 1lb.
Sodium Hydroxide – 1lb.
Rm. 154 – Sodium Acetate – 1lb.
Rm. 145 – Ammonium Oxalate – 5lbs.

#4 Organic Chemicals for Disposal

Rm.154 Ascarite-3lb.

Rm.141-A Sulfamic Acid-100 grams (top of drum)
Hydroxylamine Hydrochloride-115 grams
Dibutyl Butylphosphonate-125ml.
Collodion-250ml.
Methyl Isobutyl Ketone-1pint
Agle Sulanilic Acid in Acetic Acid-1pint
Li-O-Phenanthroline Ferrous Sulfate-125ml.
Rm.143 Sulfamic Acid-5lbs (top of drum)
O-tolidine Dihydrochloride-1lb.
Ascarite-12lbs.
Glycolic Acid-¼lb. (top of drum)
Hydroxylamine Hydrochloride-8lbs.
Diethylene Triamine Penta acetic Acid-¼lb.
Rm141-A Hydroxylamine Hydrochloride-1lb.
Dibutyl Butyl phosphonate-200ml., 500ml.
Dichloridimethylsilane-200ml.
N-Tridecane-125ml.
Formic Acid-250ml., 250ml. (bottom of barrel)
I-So Amyl Alcohol-1pint
Amyl Acetate-1pint
Methy methocylate-1gallon
Tributyl phosphate-1gallon
Butyl steorate-2gallons
Rm139 150 Amyl Alcohol-1pint
Methylisobutyl Ketone-5pints

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X = ~~save~~ +

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Note: Those items which require separate packa will go to the Central Landfill

ROOM 133 - OK

X	~~Tetrachlorethylene~~	~~1 pt.~~ +
X	~~Potassium Carbonate~~	~~1 lb.~~ +
X	~~Potassium Carbonate, Liquid~~	~~1 qt.~~ +
X	~~8 - Quinolinol~~	~~1/4 lb.~~ +
X	~~Kodak D-19 Developer~~	~~22 lb.~~ +
X	~~Kodak D-8 Developer~~	~~45 lb.~~ +

Room 134 - O.K.

X	~~H_2SO_4~~	~~1 gal.~~ +
X	~~HCl~~	~~1 gal.~~ +
X	~~HNO_3~~	~~2 gal.~~ +
	Hydroiodic Acid	10 pts. — separate package
	Tetrachloroethylene	1 pt. — EHW

Room 135 - O.K.

	Oxalic Acid (Corrosive)	1 lb. — separate package
•	Ferrous Ammonium Sulfate	1 lb. — #3
•	Sodium Hydroxide (Corrosive)	1 lb. — separate package
X	~~Dowex 1-X8 Exchange Resin~~	~~3 lbs.~~ +
X	~~Dowex 1-X8 Exchange Resin~~	~~2 lbs.~~ +
X	~~AG 50W-X8 Exchange Resin~~	~~12 lbs.~~ +

141-A CABINET WITH SLIDING DOORS - O.K.

	Aluminum Chloride - don't mix w/ organics may explode on opening	1 lb. — separate package
	Aluminum Nitrate - see nitrates	1 lb. — separate package
•	Ammonium Acetate	2 lbs. — #3
	Ammonium Bifluoride	1 lb. — #3
•	Ammonium Molybdate	2 lbs. — #3
	Ammonium Phosphate	1 lb. — #3
	Ammonium Sulfate	2 lbs. — #3
	Ascorbic Acid Powder	9 lbs. — #3
	5-Amino-2 Naphtalene Sulfonic Acid	250 g. — EHW
	~~Sodium Meta Bisulfate~~	~~12 lbs.~~ #2
	Sodium Acetate	1 lb. — #3
	Ferric Chloride	1 lb. — #3
	Cerric Nitrate	1 lb. — #3
	~~Potassium Iodide~~	~~1 lb.~~ #2
	Silver Nitrate - very reactive, caustic	4 oz. — EHW
	Sulfamic Acid	100 g. — #4
	Hydroxylamine Hydrochloride	115 g. — #4
	Phenol Red Sodium Salt	15 g. — EHW
	Sodium Carbonate	1 lb. — #3
	Ferrous Ammonium Sulfate	2 lb. — #3

REFRIGERATOR ACROSS FROM ROOM 157 — O.K.

Hypo-phosphorous Acid (reacts w/oxidizers, forms phosphine)	3 pts.	separate package
~~Butyl Alcohol~~	~~1 pt.~~	#1
.5m TTA in Xylene	1 qt.	EHW
X ~~Valeric Acid~~	~~1 qt.~~	+
~~TIOA in Xelene~~	~~1 qt.~~	#1
Dibutyl Butylphosphonate (reacts w/oxidizers)	125 ml.	#4
Nitrobenzoene	1 pt.	EHW
Xylene	1 pt.	EHW
Collodion	250 ml.	#4
Toluene	1 pt.	EHW
Methyl Isobutyl Ketone	1 pt.	#4
Hydrozine in H_2O	125 ml.	EHW
Tri-Sil Z	25 ml.	#3
Agle Sulanilic Acid in 50% Acetic Acid	1 pt.	#4
Ferrous Sulfamate	50 ml.	#3
~~Triethanolamine~~	~~1 pt.~~	#1
$KMnO_4$ (Potassium Permanganate) oxidizer	1 qt.	#3
P (KH_2SO_4)	1 qt.	#3
1-Naphthylamine-7-Sulfomic Acid 50% Acetic Acid	1 pt.	EHW
Li 10-Phenanthroline Ferrous Sulfate Complex	125 ml.	#4

Room 143 CABINET #1 - O.K.

~~Sodium Bromate~~	~~1 lb.~~	#2
Sodium Bisulfate	1 lb.	#3
Sodium Bisulfate Monohydrate	3 lbs.	#3
Sodium Carbonate	1 lb.	#3
~~Sodium Metabisulfate~~	~~1 lb.~~	#2
Sodium Chloride	6 lb.	#3
Sodium Chromate	1 lb.	#3
~~Sodium Dichromate~~	~~4 lbs.~~	#2
~~Sodium Dithionite~~	~~2 lbs.~~	#2
~~Sodium Flouride~~	~~8 lbs.~~	#2
~~Sodium Hydrosulfate~~	~~1 lb.~~	#2
~~Sodium Iodide~~	~~1/4 lb.~~	#2
Sodium Nitrate	15 lb.	#3
~~Sodium Phosphate~~	~~2 lbs.~~	#2
~~Sodium Oxalate~~	~~1 lb.~~	#2
~~Sodium Metasilicate~~	~~4 lbs.~~	#2
~~Sodium Sulfate~~	~~2 lbs.~~	#2
Sulfamic Acid	5 lbs.	#4
Sodium Tartrate	1/4 lbs.	#3
Sodium Thiosulfate	1 lb.	#3
O-tolidine Dihydrochloride	1 lb.	#4
Trioctylphosphine	25 g.	EHW
Urea	1 lb.	#3

Room 143 CABINET #1-O.K(CONT'D)

~~Drierite $CaSO_4$~~	~~20 lbs.~~	+
Ascarite	12 lbs.	#4
Acid Potassium Phthalate	1/4 lbs.	#3
~~Salicylic Acid~~	~~2 lbs.~~	#1
~~Ag-1 X8 Anion Resin~~	~~6 lbs.~~	+

Room 143 CABINET #2 - O.K.

~~Barium Chloride~~	~~8 lbs.~~	#2
~~Cerium Nitrate~~	~~1/4 lb.~~	#2
Benzion Anti-Oxime	25 g.	EHW
~~Arsenic Trioxide~~	~~1/4 lb.~~	+
~~Ceric Sulfate~~	~~1 lb.~~	+
Cuprous Chloride	1 lb.	#3
Glycolic Acid	1/4 lb.	#4
Mercuric Chloride	1/4 lb.	EHW
Ferrous Ammonium Sulfate	6 lbs.	#3
Lithium Flouride	2 lbs.	#3
Hydroxylamine Hydrochloride HH_2OH-HCl	8 lbs.	#4
Magnesium Chloride	1 lb.	#3
Magnesium Perchlorate	1 lb.	#5 separate package
~~Sodium Iodide~~	~~1/4 lb.~~	#2
~~Ferric Ammonium Sulfate~~	6 lbs.	#2
N,N - A Methyl P-NitroSoaniline	~~25 g.~~	#1
~~Lanthanum Nitrate~~	~~100 g.~~	#2
Diethylene Triamine Penta-acetic Acid	1/4 lb.	#4
P - (Dimethylamino) - Benzaldehyde	300 g.	EHW
~~Mercuric Thiocyonate~~	~~1 lb.~~	#2
Nickel Nitrate	1 lb.	#3
~~Potassium Sodium Tartrate~~	~~6 1/4 lbs.~~	#2
Potassium Bromate	1 1/4 lb.	#3
~~Potassium Bromide~~	~~1 lb.~~	#2
~~Potassium Carbonate~~	~~1 lb.~~	#2
~~Potassium Chloride~~	~~1 lb.~~	#2
Potassium Flouride	1 lb.	#3
Potassium Iodide	250 g.	#3
Potassium Hydrogen Phthalate	1/4 lb.	#3
Potassium Persulfate	1 lb.	#3
~~Potassium Phosphate~~	~~2 lbs.~~	#2
~~Salicylic Acid~~	~~2 lbs.~~	#1
Silver Peroxide	100 g.	EHW
~~Sodium Arsenite~~	~~1 lb.~~	#2
~~Sodium Bicarbonate~~	~~1 lb.~~	#2

ROOM 143 CABINET #3 - O.K.

Bromine reacts with reducers	1 lb.	#3
Sodium Oxalate	1 lb.	#2
Acid Ansenious	1 lb.	separate package

Room 141-A METAL CABINET — O.K.

Potassium Nitrate Crystals	3 lbs.	#3
Potassium Chloride	1 lb.	#3
Potassium Carbonate	1 lb.	#3
~~Cupferron~~	~~1 oz.~~	#2
Cupric Nitrate	1/4 lb.	#3
Ferric Nitrate	1 lb.	#3
Hydroxylamine Hydrochloride	1 lb.	#4
Amadac - F	50 g.	EHW
N-Phenylbenzohydroxamic Acid	25 g.	EHW
x ~~8-Quinolinol~~	~~1 oz.~~	+
x ~~8-Hydroxyquinoline~~	~~1/4 lb.~~	+
Tetrapropylammonium Hydroxide	25 g.	#3
~~Ammonium Iodide~~	~~1/4 lb.~~	#2
Ferric Nitrate	1/4 lb.	#3
~~Formaldehyde~~	~~1 pt.~~	#1
~~Sodium Chloride~~	~~1 lb.~~	#2
Sodium Oxalate	1 lb.	#3
~~Sodium Fluoride~~	~~1 lb.~~	#2
1,10 Phenonthroline	120 g.	EHW
x ~~Fluoride Adjustment Buffer~~	~~1 lb.~~	+
Cupric Sulfate	~~5 lbs.~~	#2
+ ~~Cation Std. Solutions~~	~~8 pts.~~	+

Room 141-A ICE BOX — O.K.

Dibutyl Butylphosphonate reacts w/oxidizers	200 ml.	#4
Dichloridimethylsilane reacts w/oxidizer	200 ml.	#4
Hydrazine 35%	500 ml.	EHW
DBBP Dibutyl butyl phosphonate	500 ml.	#4
x ~~Ammonium Bifluoride~~	~~1 lb.~~	+
$KMnO_4$ (Potassium Permanganate)	250 ml.	#3
~~Sodium Acetate~~	~~250 ml.~~	#2
Hydrogen Peroxide	250 ml.	down the sink
N-Tridecane	125 ml.	#4
Formic Acid	250 ml.	#4
~~N-Butyl Alcohol~~	~~250 ml.~~	#1
~~Chloroform~~	~~250 ml.~~	#1
Petroleum Ether	25 ml.	separate package
CCl_4	50 ml.	EHW
~~Formaldehyde~~	~~250 ml.~~	#1
Nitrobenzene	1 kg.	EHW
Formic Acid	250 ml.	#4
Hydrazine 65% in H_2O	500 ml.	EHW
~~Ferric Ammonium Sulfate~~	~~500 ml.~~	#2
Hydroxylamine Nitrate 15% Ag Sol.	500 ml.	EHW
.5m TTA in xylene	1 gal.	EHW
~~Chloroform~~	~~1 gal.~~	#1
1% Oxine ~~in Xylene~~	250 ml.	#1

Room 141-A -O.K.

x	~~H_2SO_4~~	~~5 gal.~~ +
x	~~HF~~	~~4 gal.~~ +
x	~~H_3PO_4~~	~~1 gal~~ +
x	~~Hypophosphorous Acid 50%~~	~~10 pt.~~ +
x	~~HCl 37%~~	~~8 gal.~~ +
x	~~Acetic Acid~~	~~2 gal.~~ +
x	~~HNO_3~~	~~1 gal.~~ +
	Tetrachloroethylene	1 pt. — EHW

Room 151 FLAMMABLE CABINET (NEAR) O.K.

Nitrobenzene	6 pts. — EHW
~~Dibutyl Phosphate~~	~~1 pt.~~ #1
Ceric Sulfate in one Normal H_2SO_4	1 pt. — #3
1 SoAmyl Alcohol	1 pt. — #4
~~1-4-Dioxane~~	~~1 pt.~~ #1
Amyl Acetate reacts w/oxidizer	1 pt. — #4
2 Ethylhexylhydrogen Phosphite	125 ml. — EHW
~~Propylene Carbonate~~	~~1 gal.~~ #2
CCl_4	~~3-gal.~~ #1
Methymethocylate	1 gal. — #4
TBP Tributyl phosphate	1 gal. — #4
Tetrachloroethylene	1 pt. — EHW
Butylstearate reacts w/oxidizer	2 gal. — #4
~~1, 1, 2, 2-Tetrabromoethane~~	~~1 gal.~~ #1

FLAMMABLE CABINET NEXT TO ROOM 139 -O.K.

	150 Amyl Alcohol	1 pt. — #4
	~~Butylacetate~~	~~5 gal.~~ #1
	~~Xylene~~	~~4 pts.~~ #1
x	~~Isopropyl Alcohol~~	~~2 gal.~~ +
x	~~Methanol~~	~~36 pts.~~ +
x	~~Acetone~~	~~36 pts.~~ +
	Methylisobutyl Ketone	5 pts. — #4

141-A CABINET WITH SLIDING DOORS (CONT'D) O.K.

	~~Sodium Sulfite~~	~~1 lb.~~ #2
X	~~Orion Tisab III~~	~~250 ml.~~ +
X	~~Silver Oxide~~	~~150 g.~~ +
	~~Salicylic Acid~~	~~.9 lbs.~~ #1
	Bromo Oresol Purple Sodium Salt	5 g. — #3
X	~~Cation Exchange Resin Ag 50x-X8 100-200 Mesh Hydrogen Form~~	~~1 lb.~~ +
X	~~An Ion Exchange Resin Biorex 9 50-100 mesh Chloride Form~~	~~10 lb.~~ +
	~~Sodium Bisulfate Monohydrate~~	~~10 lbs.~~ #2
	Ammonium Citrate	2 lbs. — #3
X	~~Drierite~~ (~~$CaSO_4$~~)	~~10 lbs.~~ +

Room 155 O.K.

	Phosphorous Pentoxide	1 lb. — #3
X	~~Ferrous Ammonium Sulfate~~	~~1 lb.~~ +
	Silver Nitrate	1/4 lb. — EHW
	~~Ammonium Oxalite~~	~~1 lb.~~ #2
	Sodium Hydroxide	1 lb. — #3
	~~Fuming HNO_3 Pure~~	~~1/2 gal.~~ - separately packaged
X	~~HF~~	~~1 gal.~~ +
X	~~H_2SO_4~~	~~4 gal.~~ +
X	~~HCl~~	~~5 gal.~~ +
	.25m Lead Nitrate	1 qt. - EHW

Room 154 - O.K.

	Sodium Acetate	1 lb. — #3
	Magnesium Perchlorate - explosive oxidizer	3 lb. — separate package
	Ascarite	3 lb. — #4
	Hydroiodic Acid	20 pts. — #3 separate package

Room 152 - O.K.

X	~~HNO_3~~	~~3 gal.~~ +

Room 145 - O.K.

Ammonium Oxalate 5-lbs. — #3

#4 Organic Chemicals for Disposal
Central Landfill

Rm.154 Ascarite-3lb.

Rm.141-A Sulfamic Acid-100 grams (top of drum)
Hydroxylamine Hydrochloride-115 grams
Dibutyl Butylphosphonate-125ml.
Collodion-250ml.
Methyl Isobutyl Ketone-1pint
Agle Sulanilic Acid in Acetic Acid-1pint
Li-O-Phenanthroline Ferrous Sulfate-125ml.

Assume 55-gal drum

Rm.143 Sulfamic Acid-5lbs (top of drum)
O-Tolidine Dihydrochloride-1lb.
Ascarite-12lbs.
Glycolic Acid-¼lb. (top of drum)
Hydroxylamine Hydrochloride-8lbs.
Diethylene Triamine Penta acetic Acid-¼lb.

Rm141-A Hydroxylamine Hydrochloride-1lb.
Dibutyl Butylphosphonate-200ml., 500ml.
Dichloridimethylsilane-200ml.
N-Tridecane-125ml.
Formic Acid-250ml., 250ml. (bottom of barrel)
I-So Amyl Alcohol-1pint
Amyl Acetate-1pint
Methymethocylate-1gallon
Tributylphosphate-1gallon
Butylstearate-2gallons
Rm.137 I-So Amyl Alcohol-1pint
Methylisobutyl Ketone-5pints

0000037

#4 Organic Chemicals for Disposal
Central Landfill

Rm.154 Ascarite-3lb.

Rm.141-A Sulfamic Acid-100 grams (top of drum)
Hydroxylamine Hydrochloride-115 grams
Dibutyl Butylphosphonate-125ml.
Collodion-250ml.
Methyl Isobutyl Ketone-1pint
Agle Sulanilic Acid in Acetic Acid-1pint
Li-O-Phenanthroline Ferrous Sulfate-125ml.

Assume 55-gal drum

Rm.143 Sulfamic Acid-5lbs (top of drum)
O-Tolidine Dihydrochloride-1lb.
Ascarite-12lbs.
Glycolic Acid-¼lb. (top of drum)
Hydroxylamine Hydrochloride-8lbs.
Diethylene Triamine Penta acetic Acid-¼lb.

Rm141-A Hydroxylamine Hydrochloride-1lb.
Dibutyl Butylphosphonate-200ml. 500ml.
Dichloridimethyl silane-200ml.
N-Tridecane-125ml.
Formic Acid-250ml., 250ml. (bottom of barrel)
I-So Amyl Alcohol-1pint
Amyl Acetate-1pint
Methymethocylate-1 gallon
Tributylphosphate-1 gallon
Butylsteorate-2 gallons

Rm.139 15C Amyl Alcohol-1pint
Methylisobutyl Ketone-5pints

000028

Chemicals Requiring Separate Packaging (Onsite Disposal)

Rm. 135 Oxalic Acid - 1lb.
Sodium Hydroxide - 1lb.
Rm 141-A Aluminum Chloride - 1lb.
Aluminum Nitrate - 1lb.
Hypo-phosphorus Acid - 3 pints
Rm. 143 Magnesium Perchlorate - 1 lb.
Acid Arsenious - 1lb.
Rm. 141-A Petroleum Ether - 25ml.
Rm. 154 Magnesium Perchlorate - 3lb.
Rm 134 Hydroiodic Acid - 10 pints
Rm. 154 Hydroiodic Acid - 20 pints

9112243107 6

Chemicals Requiring Separate Packaging (Onsite Disposal)
Central Landfill

		Est. burial volume ft^3
Rm. 135	Oxalic Acid - 1 lb.	.03
	Sodium Hydroxide - 1 lb.	.03
Rm 141-A	Aluminum Chloride - 1 lb.	.03
	Aluminum Nitrate - 1 lb.	.03
	Hypo-phosphorus Acid - 3 pints	.05
Rm. 143	Magnesium Perchlorate - 1 lb.	.03
	Acid Arsenious - 1 lb.	.03
Rm. 141-A	Petroleum Ether - 25 ml.	.0[illegible]
Rm. 15[illegible]	Magnesium Perchlorate - 3 lb.	.05
Rm 134	Hydroiodic Acid - 10 pints	.30
154	Hydroiodic Acid - 20 pints	[illegible]

Each packaged separately.

0000040

Extremely Hazardous Waste

To be packaged separate from other columns	Package as is (separate other col.
Rm. 134 - tetrachloroethylene - 1 pint	Rm 144A - Silver Nitrate - 4oz.
Rm. 144A - 5 amino 2 naphtalene Sulfonic Acid - 250 grams	Rm 143 - Mercuric Chloride - 1/4 lb.
Phenol Red Sodium Salt - 15 gram	Rm. 143 - Silver Peroxide - 100 grams
.5 m TTA in Xylene - 1 quart	Rm 144A - Hydroxylamine Nitrate 15% Aq Solution
Nitrobenzene - 1 pint	Rm. 155 - Silver Nitrate - 1/4 lb.
Xylene - 1 pint	.25 m. Lead Nitrate - 1 quart
Toluene - 1 pint	
Hydrazine in H_2O - 125 ml.	
1-Naphthylamine-7-Sulfonic Acid - 1 pint	
Rm. 143 Trioctyl phosphine - 25 gram	
Benzion Anti Oxime - 25 gram	
P-(Dimethylamino) Benzaldehyde - 300 gram	
Rm. 141-A Amadac-F - 50 grams	
N-Phenylbenzohydroamic Acid - 25 grams	
1,10-Phenonthroline - 120 grams	
Hydrazine 35% - 500 ml.	
Carbon tetrachloride - 50 ml.	
Nitrobenzene - 1 Kg.	
Hydrazine 65% - 500 ml.	
.5 TTA in xylene - 1 gallon	
Tetrachloroethylene - 1 pint	
Rm. 151 - Nitrobenzene - 6 pints	
2-Ethylhexyl hydrogen Phosphite - 125 ml.	
Tetrachloroethylene - 1 pint	

)()()()()11

9 1 1 2 2 4 3 1 0 7 8

Offsite Disposal
Extremely Hazardous Waste

To be packaged separate from other columns

Rm. 134 - tetrachloroethylene - 1 pint
Rm. 141A - 5-amino-2 naphtalene Sulfonic Acid - 250 grams
Phenol Red Sodium Salt - 15 gram
.5 m TTA in Xylene - 1 quart
Nitrobenzene - 1 pint
Xylene - 1 pint
Toluene - 1 pint
Hydrazine in H_2O - 125 ml.
1-Naphthylamine-7-Sulfomic Acid - 1 pint
Rm. 143 Trioctyl phosphine - 25 gram
Benzion Anti Oxime - 25 gram
P-(Dimethylamino) Benzaldehyde - 300 gram
Rm. 141-A Amadac-F - 50 grams
N-Phenyl benzohydroamic Acid - 25 grams
1,10-Phenon throline - 120 grams
Hydrazine 35% - 500 ml.
Carbon tetrachloride - 50 ml.
Nitro benzene - 1 Kg.
Hydrazine 65% - 500 ml.
.5 TTA in xylene - 1 gallon
Tetrachloroethylene - 1 pint
Rm. 151 - Nitrobenzene - 6 pints
2-Ethylhexyl hydrogen Phosphite - 125 ml.
Tetrachloroethylene - 1 pint

Package as is (separate other colu

Rm 141A - Silver Nitrate - 4 oz.
Rm 143 - Mercuric Chloride - 1/4 lb.
Rm. 143 - Silver Peroxide - 100 gram
Rm 141-A - Hydroxylamine Nitrate 15% Aq Solution
Rm. 155 - Silver Nitrate - 1/4 lb.
.25 m Lead Nitrate - 1 quart

55 - [illegible]
30 [illegible]

.1 c: ✓ E-8741.

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT 202-S/200 West Rockwell

A. Generator's Name: W. R. Buchanan Phone: 3-2181 Address: 234-5/200 W Company: RHO

B. Custodian's Name: B. R. Fitzpatrick Phone: 3-2283 Address: 234-5/200 W Company: RHO

C. Waste Description: (If more than five items, attach additional sheets)

	Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1	SEE ATTACHED		SHEETS					
2								
3								
4								
5								

D. Have appropriate labels been affixed to containers? YES Not required

E. Have efforts been made to recycle (e.g., excess) waste? WASTE OF NO USE

F. Has waste been treated in any manner? NO If so, how?

G. Storage Location 234-5 LAB/200 W RHO

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: HAS BEEN SURVEYED

Generator's Signature W R Buchanan Date: 12-3-82

II. APPROVAL

A. Approved for Disposal by Name: G. R. Cox Phone: 3-3679 Address: 202-S/200-W Co.: Rockwell

Date: 2/16/83 Signature: G. R. Cox

B. Packaging Requirements (specify): As specified on attached sheets; EHW will go to the new storage facility in 200-West area until disposed of offsite.

C. Disposal Location (check one) X Chemical Trench, Asbestos Trench, 212-P (Storage), as specified Other

III. TRANSPORTATION/DISPOSAL

A. Transporter's Name: L. G. Dow Phone: 6-6654 Address: 1171 Company RHO

B. Date Transported/Disposed: Chemical Trench 6-1-83

C. Transporter's Signature Lonnie G. Dow
D E Shelpe

000224 700-174.1 (N

9112231030

Offsite Disposal
Extremely Hazardous Waste

To be packaged separate from other columns	Package as is (separate other co
Rm. 134 - Tetrachloroethylene - 1 pint	Rm 141-A - Silver Nitrate - 4oz.
Rm. 141A - 5 amino 2 naphtalene Sulfonic Acid - 250 grams	Rm 143 - Mercuric Chloride - 1/4 lb.
Phenol Red Sodium Salt - 15 gram	Rm. 143 - Silver Peroxide - 100 gra
.5 m TTA in Xylene - 1 quart	Rm 141-A - Hydroxylamine Nitrate 15% Aq Solution
Nitrobenzene - 1 pint	Rm. 155 - Silver Nitrate - 1/4 lb.
Xylene - 1 pint	.25 m Lead Nitrate - 1 quart
Toluene - 1 pint	
Hydrazine in H_2O - 125 ml.	
1-Naphthylamine-7-Sulfonic Acid - 1 pint	
Rm. 143 Trioctyl phosphine - 25 gram	
Benzion Anti Oxime - 25 gram	
P-(Dimethylamino) Benzaldehyde - 300 gram	
Rm. 141-A Amadac-F - 50 grams	
N-Phenyl benzohydroamic Acid - 25 grams	
1,10-Phenanthroline - 120 grams	
Hydrazine 35% - 500 ml.	
Carbon Tetrachloride - 50 ml.	
Nitrobenzene - 1 Kg.	
Hydrazine 65% - 500 ml.	
.5 TTA in xylene - 1 gallon	
Tetrachloroethylene - 1 pint	
Rm. 151 - Nitrobenzene - 6 pints	
2-Ethylhexyl hydrogen Phosphite - 125 ml.	
Tetrachloroethylene - 1 pint	

000225

#4 Organic Chemicals for Disposal
Central Landfill

Rm.154 Ascarite-3lb

Rm.141-A Sulfamic Acid-100 grams (top of drum)
Hydroxylamine Hydrochloride-115 grams
Dibutyl Butylphosphonate-125ml.
Collodion - 250ml.
Methyl Isobutyl Ketone-1pint
Agle Sulanilic Acid in Acetic Acid-1pint
1-10-Phenanthroline Ferrous Sulfate-125ml.

Rm.143 Sulfamic Acid-5lbs (top of drum)
O-Tolidine Dihydrochloride-1lb.
Ascarite-12lbs.
Glycolic Acid-¼lb. (top of drum)
Hydroxylamine Hydrochloride-8lbs.
Diethylene Triamine Penta acetic Acid-¼lb.

Rm141-A Hydroxylamine Hydrochloride-1lb.
Dibutyl Butyl phosphonate-200ml., 500ml.
Dichloridimethyl silane-200ml.
N-Tridecane—125ml.
Formic Acid-250ml., 250ml. (bottom of barrel)
I-So Amyl Alcohol-1pint
Amyl Acetate-1pint
Methy methocylate-1 gallon
Tributylphosphate-1 gallon
Butyl stearate-2 gallons

Rm139 I-So Amyl Alcohol-1pint
Methylisobutyl Ketone-5pints

000226

Chemicals Requiring Separate Packaging (Onsite Disposal)
Central Landfill

Rm. 135 Oxalic Acid - 1lb.
Sodium Hydroxide - 1lb.
Rm 141-A Aluminum Chloride - 1lb.
Aluminum Nitrate - 1lb.
Hypo-phosphorus Acid - 3 pints
Rm. 143 Magnesium Perchlorate - 1 lb.
Acid Arsenious - 1lb.
Rm. 141-A Petroleum Ether - 25ml.
Rm. 154 Magnesium Perchlorate - 3lb.
Rm 134 Hydroiodic Acid - 10 pints
Rm. 154 Hydroiodic Acid - 20 pints

E-87417

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE.

I. **GENERATION:** The Generator should complete Part I and forward this form to: WS&DT, 202-S/200 West, Rockwell

A. Generator's Name: W.R. Buchanan Phone: 3-2181 Address: 234-5/200 W Company: RHO

B. Custodian's Name: B.R. Fitzpatrick Phone: 3-2283 Address: 234-5/200 W Company: RHO

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. SEE ATTACHED SHEETS							
2.							
3.							
4.							
5.							

D. Have appropriate labels been affixed to containers? YES Not required

E. Have efforts been made to recycle (e.g., excess) waste? WASTE OF NO USE

F. Has waste been treated in any manner? NO If so, how?

G. Storage Location 234-5 LAB/200W RHO

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: HAS BEEN SURVEYED

Generator's Signature W.R. Buchanan Date: 12-3-82

II. **APPROVAL**

A. Approved for Disposal by Name: G.R. Cox Phone: 3-3679 Address 202-S/200-W Co.: Rockwell

Date: 2/16/83 Signature: G.R. Cox

B. Packaging Requirements (specify): As specified on attached sheets; FHN will go to the new storage facility in 200-West area until disposed of offsite.

C. Disposal Location (check one) X Chemical Trench, Asbestos Trench, 212-P (Storage), as specified Other

III. **TRANSPORTATION/DISPOSAL**

A. Transporter's Name: [illegible] Phone: 6-6654 Address: 1171 Company RHO

B. Date Transported/Disposed: Chemical Trench 6-1-88

C. Transporter's Signature: [illegible]

000228

BC-6700-174.1 (N

9112230109 4

Offsite Disposal
Extremely Hazardous Waste

To be packaged separate from other columns

Rm. 134 - tetrachloroethylene - 1 pint
Rm. 144A - 5 amino-2 naphtalene Sulfonic Acid - 250 grams
Phenol Red Sodium Salt - 15 gram
.5 m TTA in Xylene - 1 quart
Nitrobenzene - 1 pint
Xylene - 1 pint
Toluene - 1 pint
Hydrazine in H_2O - 125 ml.
1-Naphthylamine-7-Sulfonic Acid - 1 pint
Rm. 143 Trioctyl phosphine - 25 gram
Benzion Anti Oxime - 25 gram
P-(Dimethylamino) Benzaldehyde - 300 gram
Rm. 141-A Amadac-F - 50 grams
N-Phenyl benzohydroamic Acid - 25 grams
1,10-Phenon throline - 120 grams
Hydrazine 35% - 500 ml.
Carbon tetrachloride - 50 ml.
Nitro benzene - 1 Kg.
Hydrazine 65% - 500 ml.
.5 TTA in xylene - 1 gallon
Tetrachloroethylene - 1 pint
Rm. 151 - Nitrobenzene - 6 pints
2-Ethylhexyl hydrogen Phosphite - 125 ml.
Tetrachloroethylene - 1 pint

Package as is (separate other c

Rm 144-A - Silver Nitrate - 4 oz.
Rm 143 - Mercuric Chloride - 1/4 lb.
Rm. 143 - Silver Peroxide - 100 gra
Rm 141-A Hydroxylamine Nitrate 15% Aq Solution
Rm. 155 - Silver Nitrate - 1/4 lb.
.25 m Lead Nitrate - 1 quart

#4 Organic Chemicals for Disposal
Central Landfill

Rm.154 Ascarite-37lb.

Rm.141-A Sulfamic Acid- 100 grams (top of drum)
Hydroxylamine Hydrochloride-115grams
Dibutyl Butylphosphonate-125ml.
Collodion - 250ml.
Methyl Isobutyl Ketone-1pint
Agle Sulanilic Acid in Acetic Acid-1pint
1-10-Phenanthroline Ferrous Sulfate-125ml.

Rm.143 Sulfamic Acid-57lbs (top of drum)
O-Tolidine Dihydrochloride -1lb.
Ascarite- 12lbs.
Glycolic Acid- 1/4lb. (top of drum)
Hydroxylamine Hydrochloride-8lbs.
Diethylene Triamine Penta acetic Acid-1/4lb.

Rm141-A Hydroxylamine Hydrochloride-1lb.
Dibutyl Butyl phosphonate- 200ml., 500ml.
Dichloridimethylsilane-200ml.
N-Tridecane—125ml.
Formic Acid- 250ml., 250ml. (bottom of barrel)
I- So Amyl Alcohol -1pint
Amyl Acetate - 1pint
Methy methocylate -1 gallon
Tributylphosphate- 1 gallon
Butylsteorate-2 gallons

Rm139 Iso Amyl Alcohol- 1pint
Methylisobutyl Ketone- 5pints

000230

Chemicals Requiring Separate Packaging (Onsite Disposal)
Central Landfill

Rm. 135	Oxalic Acid - 1 lb.
	Sodium Hydroxide - 1 lb.
Rm 141-A	Aluminum Chloride - 1 lb.
	Aluminum Nitrate - 1 lb.
	Hypo-phosphorus Acid - 3 pints
Rm. 143	Magnesium Perchlorate - 1 lb.
	Acid Arsenious - 1 lb.
Rm. 141-A	Petroleum Ether - 25 ml.
Rm. 154	Magnesium Perchlorate - 3 lb.
Rm 134	Hydroiodic Acid - 10 pints
Rm. 154	Hydroiodic Acid - 20 pints

DISPOSAL PACKET NUMBER

P83-028

...ifest

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

PNL-83-001

1-27

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT, 202-S/200 West, Rockwell

A. Generator's Name: Jeene M. Hobbs Phone: 376-1631 Address: 3762/300 Area Company: PNL

B. Custodian's Name: Fred Burton Phone: 375-2031 Address: LSL-II/3000Area Company: PNL

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1 50:50 Methanol Water Mixture	7 gal.	1 gal-glass	7		X		flammable liquid
2 25:25:25:25 Methanol, water, benzene, hexane mix	1 gal.	1gal-glass	1		X		flammable liquid
3 50:50 benzene -hexane Mix	1 gal.	1 gal-glass	1		X		flammable liquid
4 Crude Oil	1/2 gal.	1 gal-glass	1		X		flammable liquid
* 5 50:50 PCS-acetonitrile mixture	14 gal.	1 gal-glass	14		X		flammable liquid

D. Have appropriate labels been affixed to containers? _____ Not required {Labels will be affixed after packaging if applicable

E. Have efforts been made to recycle (e.g., excess) waste? N/A

F. Has waste been treated in any manner? NO XXXXXXXX Please give packaging instructions

G. Storage Location 332 Building/300 Area

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: _____

Generator's Signature: Jeene M Hobbs Date: 26 JANUARY 83

*PCS is a proprietary xylene base scintillation solution.

II. APPROVAL

A. Approved for disposal by Name: G.R. Cox Phone: 3-3679 Address 202-S/200-W Co.: Rockwell

Date: January 28, 1983 Signature: G.R. Cox

B. Packaging Requirements (specify): _____

C. Disposal Location: #1,2,4 Chemical Trench, _____ Asbestos Trench, Now 2727-S.

(check one) _____ 212-P (Storage), #3 & 5 store at chemical trench on pallets with plastic covering for outside shipment and disposal. Other, _____

III. TRANSPORTATION/DISPOSAL

Transporter(s) Name: L.G. Davis Phone: 65859 Address: 1171 Company R-H-O

B. Date Transported/Disposed: 6-2-85

C. Transporter(s) Signature: Lane G. Davis

0000046

BC-6700-174.1 (N-1-82)

9112221039

DISPOSAL PACKET NUMBER

P83-029

9 1 1 2 2 4 3 1 0 9 0

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

PNL - 83 - 009

3/7

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT, 202-S/200 West, Rockwell

A. Generator's Name: Jeene Hobbs Phone: 6-1631 Address: 3762/300 Area Company: PNL

B. Custodian's Name: Fred Burton Phone: 5-2031 Address: LSL-2/3000 Area Company: PNL

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. 25:25:25:25 methanol, water, benzene, hexane mix	5 gal	glass	5		X		flammable liq (EHW)
2.							
3. tetrahydrofuran	12gal	glass	12		X		flammable liq (EHW)
4. ethyl ether	1 gal	glass	1		X		flammable liq (EHW)
5. isopropyl ether	10 #	2 glass 3 metal	5		X		flammable liq (EHW)

D. Have appropriate labels been affixed to containers? _____ Not required _____ The lab packs will be labeled w/flammable Liquid labels and waste labels.

E. Have efforts been made to recycle (e.g., excess) waste? no NA

F. Has waste been treated in any manner? no If so, how? _____

G. Storage Location: 332 Bldg/300 Area

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: _____

Generator's Signature: Jeene Hobbs *Jeene M Hobbs* Date: 4 May 1983

II. APPROVAL

A. Approved for disposal by Name: G.R. Cox Phone: 3-3679 Address 202-S/200-W Co.: Rockwell

Date: May 18, 1983 Signature: *Gary R. Cox*

B. Packaging Requirements (specify): #1, 3, 4, 5, 6, 9, 10 will be shipped offsite in 55 gallon drums. #7, 8, 12 will go to Central Landfill.

C. Disposal Location: X Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), 2227-S (offsite) Other

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: L.G. Dills Phone: 16654 Address: 1171 Company RHO

B. Date Transported/Disposed: 6-2-83

C. Transporter(s) Signature: *Lance G Dills*

0000096

BC-6700-174.1 (N-1-82)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class	
*6. 50:50 PCS-acetonitrile mixture	7 gal	glasss	7		X		flammable Liq (EMW)	
7. Dioxane	1 3/4 gal	glass	4		X		flammable (DW)	0.1
8. Bromine	2 qt	glass in metal	2		X		Corrosive	0.1
# 9. CO_{2m} Met	1 gal	glass	1		X		flammable & strong base poison (EMW)	
10. methylene glycol monomethyl ether	1 gal	glass	1		X		(EMW)	
11.								
12. perchloric acid	1 pt	glass	1		X		Oxidizer	0.1
13.								
14.								
15.								
16.								
17.								
18. *PCS is a proprietary xylene based scintillation solution.								
19. #CO_2 trapping agent								
20.								
21.								
22.								
23.								
24								
25.								
26.								
27.								
28.								
29.								
30.								
31.								
32.								
33.								
34.								000007

9 1 1 2 2 4 1 0 9 2

DISPOSAL PACKET NUMBER

P83-033

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

4/13

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT 202-S/200 West Rockwell

A. Generator's Name: R.A.Polk Phone: 3-2323 Address: 202-A/200-E Company: Rockwell

B. Custodian's Name: R.A.Polk Phone: 3-2323 Address: 202-A/200-E Company: Rockwell

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1.							
2. See Attached List							
3.							
4.							
5.							

D. Have appropriate labels been affixed to containers? _____ Not required X

E. Have efforts been made to recycle (e.g., excess) waste? N/A

F. Has waste been treated in any manner? N/A If so, how? _____

G. Storage location: 202-A/200-East Loading Dock

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: N/A

Generator's Signature: (Open Request) Date: June 20, 1983

II. APPROVAL

A. Approved for disposal by Name: G.R. Cox Phone: 3-3679 Address: 202-S/200-W Co.: Rockwell

Date: June 20, 1983 Signature: G.R. Cox

B. Packaging Requirements (specify): Empty Containers - Open Request

C. Disposal Location: X Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), _____ Other

III. TRANSPORTATION/DISPOSAL Open Request for material noted - document numbers only

Transporter(s) Name: J.W. Cace Phone: 6-6654 Address: 1171 Company RLO

Date Transported/Disposed: _____

C. Transporter(s) Signature: John Wayne Cace

0000156

BC-6700-174.1 (N-1-82)

9112210094

4-13

DON'T SAY IT --- *Write It!*

DATE June 20, 1983

TO R. A. Polk / Shift Manager 202-A

FROM Gary R. Cox / Hazardous Waste Coordinator

Re: Empty Container Disposal From Chemical Operations At Purex.

A review of the empty chemical containers emanating from Purex Operations (listed on your letter of May 27 - PS-017-83) indicates that the following disposal options are available: A.) The Sugar, Soda Ash, QuickSorb, Limestone, and Tartaric bags may be disposed of as trash in the dumpsters; B.) The Sodium Nitrate, Sodium Nitrite, Sulfamic Acid, Calcium Nitrate, Oxalic Acid, Ferrous Sulfamate, Potassium Permanganate, Hydrogen Peroxide, and Oxalic may be disposed of together in the designated dumpster to be placed at the 202-A loading dock; C.) The Hydrazine and Hydroxylamine Nitrate must be disposed of separately to the Central Landfill. Since these are 55 gallon metal/plastic drums, this should present no problems.

Attached you will find a copy of the approved-open disposal request for these materials. This will allow you to call Transportation (Dennis Poor) as needed to effect disposal.

cc: H. R. Newton
D. Poor

"TO MAKE LIFE LAST, PUT SAFETY FIRST"

0000157

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

4/13

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT, 202-S/200 West, Rockwell

A. Generator's Name: R.A.P.TK Phone: 3-2323 Address: 202-A/200-E Company: Rockwell

B. Custodian's Name: R.A.P.TK Phone: 3-2323 Address: 202-A/200-E Company: Rockwell

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1.							
2.							
3.							
4.							
5.							

D. Have appropriate labels been affixed to containers? _____ Not required X

E. Have efforts been made to recycle (e.g., excess) waste? N/A

F. Has waste been treated in any manner? N/A If so, how? _____

G. Storage Location: 202-A/200-East Loading Dock

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: N/A

Generator's Signature: (Open Request) Date: June 20, 1983

II. APPROVAL

A. Approved for disposal by Name: G.R. Cox Phone: 3-3679 Address: 202-S/200-W Co.: Rockwell

Date: June 20, 1983 Signature: G.R. Cox

B. Packaging Requirements (specify): Empty Containers - Open Request

C. Disposal Location: X Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), _____ Other

III. TRANSPORTATION/DISPOSAL Open Request for material noted - document numbers only

A. Transporter(s) Name: _____ Phone: _____ Address: _____ Company _____

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

0000155

9 1 1 2 2 1 3 1 0 9 6

BC-6700-174.1 (N-1-82)

Internal Letter

Rockwell International

Date: May 27, 1983

No: PS-017-83

TO: (Name, Organization, Internal Address)
G. R. Cox, EA&M
202-S/200-West
373-3679

FROM: (Name, Organization, Internal Address, Phone)
R. A. Polk
202-A/200-East
373-2323

Subject: Disposal Requirements of Empty Chemical Containers.

In our previous meeting with you at PUREX we discussed the disposal requirements of empty chemical containers. You requested a listing of the type of container and what chemical it held. At the present time we now have the following chemicals that are used at PUREX; more could be added later.

1. Sugar - Paper Bag - trash
2. Soda Ash - Paper Bag - no prob. trash
3. Quick Sorb - Paper Bag - trash
4. Sodium Nitrate - Paper Bag oxidizer
5. Sodium Nitrite - Paper Bag oxidizer
6. Sulfamic Acid - Paper Bag reacts w/acid to form
7. Limestone - Paper Bag - trash
8. Calcium Nitrate - Fiber Barrel oxid
9. Oxalic Acid - Fiber Barrel toxic oral
10. Ferrous Sulfamate - Fiber Barrel no prob.
11. Hydrazine - Metal Barrel - reducer +
12. HN - Metal Barrel, some plastic drums re
13. Pot Permanganate - tiny Metal Barrel oxi
14. Hydrogen Peroxide - Plastic Barrel oxid
15. Oxalic - Plastic Bag no problems
16. Tartaric - Burlap Bag - no problems - tras

Your suggestions and recommendations for disposal of these containers in an expediant and reasonable cost to meet the required guidelines would be appreciated.

R. A. Polk

R. A. Polk, Shift Manager
PUREX Services & UO_3 Operations

RAP/cas

cc: B. F. Campbell
J. D. McIntosh
S. M. Nielson

Lb/file

0000159

DISPOSAL PACKET NUMBER

P83-041

PNL-83-003

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

1-41

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT, 202-S/200 West, Rockwell

A. Generator's Name: Jeene Hobbs Phone: 6-1631 Address: 3762/300 Area Company: PNL

B. Custodian's Name: Russ Barrows Phone: 5-3792 Address: PSL/3000 Area Company: PNL

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1 Hi temp oil	14gal	2 metal 4 glass	6		X		Combustible liq
2 Hexane w/.7% THF (EHW)	4 gal	glass	4		X		Flammable liq
3 Iso-octane w/1% THF (EHW)	4 gal	glass	4		X		Flammable liq
4 Ammonium fluoride	3 lb	glass	3	X			ORM-B
5 Alumina chloride	1 & 1 lb	glass	2	X			

D. Have appropriate labels been affixed to containers? _____ Not required _____ Lab packs will be labeled as required.

E. Have efforts been made to recycle (e.g., excess) waste? no

F. Has waste been treated in any manner? no If so, how? _____

G. Storage Location: PSL/3000 Area; chemicals will be moved for packaging (contact Hobbs for location)

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: _____

Generator's Signature: Jeene Hobbs Date: 25 Feb 83

APPROVAL

A. Approved for disposal by Name: Gary R. Cox Phone: 3-3679 Address: 202-S/200W Co.: Rockwell

Date: March 3, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): Package #2&3 for offsite shipment (may include with PNL-83-002 offsite); #1, 4 & 5 package for Central Landfill

C. Disposal Location: X Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), X Other

III. TRANSPORTATION/DISPOSAL

9-8-83?

A. Transporter(s) Name: _____ Phone: _____ Address: _____ Company _____

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

0000050

BC-6700-174.1 (N-1-82)

6601 F 2 2 1 1 6

PNL-83-003

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

4

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT 202-S/200 West Rockwell

A. Generator's Name: Jeene Hobbs Phone: 6-1631 Address: 3762/300 Area Company: PNL

B. Custodian's Name: Russ Barrows Phone: 5-3792 Address: PSL/3000 Area Company: PNL

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1 Hi temp oil	14gal	2 metal 4 glass	6		X		Combustible liq
2 Hexane w/.7% THF (EXNV)	4 gal	glass	4		X		Flammable liq
3 Iso-octane w/1% THF (EXNV)	4 gal	glass	4		X		Flammable liq
4 Ammonium fluoride	3 lb	glass	3	X			ORM-B
5 Alumina chloride	1 ½ lb	glass	2	X			

D. Have appropriate labels been affixed to containers? _____ Not required _____ Lab packs will be labeled as required.

E. Have efforts been made to recycle (e.g., excess) waste? no

F. Has waste been treated in any manner? no If so, how? _____

G. Storage Location: PSL/3000 Area; chemicals will be moved for packaging (contact Hobbs for location)

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: _____

Generator's Signature: Jeene Hobbs Date: 25 Feb 83

II. APPROVAL

A. Approved for disposal by Name: Gary R. Cox Phone: 3-3679 Address: 202-S/200W Co.: Rockwell

Date: March 3, 1983 Signature: G R Cox

B. Packaging Requirements (specify): Package #2&3 for offsite shipment (may include with PNL-83-002 offsite); #1,4&5 package for Central Landfill

C. Disposal Location: X Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), X Other

III. TRANSPORTATION/DISPOSAL

Transporter(s) Name: _____ Phone: _____ Address: _____ Company _____

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

0000051

BC 6700-176.1 (N-1-82)

9112211100

HAZARDOUS WASTE MANIFES

THIS MEMORANDUM

MANIFEST DOCUMENT NUMBER

PNL-M-83-006

DR 1-41 (002) 3-31-(015) 3-5 (007) - 3-31-(016) 3-9 (010) 3-33 (013) 3-27 (014)

This document corresponds to disposal requests numbered PNL-003,007, 010,013, & 014 (or parts thereof) also 015 and 016

TO:	FROM:
T/S/D FACILITY Rockwell Hanford operations	Generator Battelle - PNL
E.P.A. ID Code No. WA-89-000-8967	E.P.A. ID Code No. WA7-89-000-3967
Address Richland, Wa 99352	Address Richland, Wa 99352
Destination Central Landfill Chemical trench	Origin 332 Building 300 Area
Phone Harlan Boynton 373-3516	Phone Jeene Hobbs 37616131

	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS			WEIGHT	LABELS REQUIRED (by Transportation No.)
#1	Waste combustible lab pack	Combustible liq			400 #	combustible controlled
#4	Waste flammable liquid lab pack	flammable liq			400#	flammable controlled
#5	Waste flammable liquid lab pack	flammable liq			400#	flammable controlled
#6	Waste flammable liquid	flammable liq			200#	flammable hazardous
#7	Hazardous waste liq & solid nos	ORM-E			400#	hazardous waste
#3	Waste bromine	Corrosive			60#	corrosive hazardous

PLACARDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY none

E.P.A. ID Code No.

Address

Destination

EMERGENCY RESPONSE INFORMATION

CONTACT Name Battelle Industrial Safety

Phone JM Hobbs 37641631

National Response Center 1-800-424-8802 in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature Jeene Hobbs Date

TRANSPORTER #1 E.P.A. ID No.

Address

City State Zip Phone

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature Date

TRANSPORTER #2 E.P.A. ID No.

Address

City State Zip Phone

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature Date

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature Date

T/S/D F COPY

0000052

13.0

PNL-83-003

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT, 202-S/200 West, Rockwell

A. Generator's Name: Jeene Hobbs Phone: 6-1631 Address: 3762/300 Area Company: PNL

B. Custodian's Name: Russ Barrows Phone: 5-3792 Address: PSL/3000 Area Company: PNL

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
Hi temp oil	14gal	2 metal 4 glass	6		X		Combustible liq
Hexane w/.7% THF (EHN)	4 gal	glass	4		X		Flammable liq
Iso-octane w/1% THF (EHN)	4 gal	glass	4		X		Flammable liq
Ammonium fluoride	3 lb	glass	3	X			ORM-B
Alumina chloride	1 ½ lb	glass	2	X			

D. Have appropriate labels been affixed to containers? _____ Not required _____ Lab packs will be labeled as required.

E. Have efforts been made to recycle (e.g., excess) waste? no

F. Has waste been treated in any manner? no If so, how?

G. Storage Location: PSL/3000 Area; chemicals will be moved for packaging/contact Hobbs for location

H. "I certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number:

Generator's Signature: Jeene Hobbs *Jeene M Hobbs* Date: 25 Feb 83

II. APPROVAL

A. Approved for disposal by Name: Gary R. Cox Phone: 3-3679 Address: 202-S/2040 Co.: Rockwell

Date: March 3, 1983 Signature: *Gary R. Cox*

B. Packaging Requirements (specify): Package #2&3 for offsite shipment (may include with PNL-83-002 offsite); #1,4&5 package for Central Landfill

C. Disposal Location: X Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), X Other

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: [illegible] Phone: 6-6659 Address: 1171 Company: RHO

B. Date Transported/Disposed: 9-8-83

C. Transporter(s) Signature: [illegible] Chemical Trench

RECEIVED SEP 8 1983

000210

BC-6700-174.1 (N-1-82)

9112212311102

HAZARDOUS WASTE MANIFEST

THIS SHIPPING ORDER must be legibly filled in, in ink, in Indelible Pencil, or in Carbon, and retained by the Agent.

MANIFEST DOCUMENT NUMBER: PNL-M-83-006

This document corresponds to disposal requests numbered PNL-003,007, 010,013, & 014 (or parts thereof) also 015 and 013

TO:	FROM:
T/S/D FACILITY Rockwell Hanford operations	Generator Battelle - PNL
E.P.A. ID Code No. WA-39-000-8967	E.P.A. ID Code No. WA7-89-000-8967
Address Richland, Wa 99352	Address Richland, Wa 99352
Destination Central Landfill Chemical trench	Origin 332 Building 300 Area
Phone Harlan Boynton 372-3516	Phone Jeene Hobbs ~~37631~~ 376-1631

	DOT PROPER SHIPPING NAME	HAZARD CLASS	DOT UN/NA Number	EPA Waste No.	WEIGHT	LABELS REQUIRED (or Exception No.)
#1	Waste combustible lab pack	Combustible liq			400 #	combustible controlled
#4	Waste flammable liquid lab pack	flammable liq			400#	flammable controlled
#5	Waste flammable liquid lab pack	flammable liq			400#	flammable controlled
#6	Waste flammable liquid	flammable liq			200#	flammable hazardous
#7	Hazardous waste liq & solid nos	ORM-E			400#	hazardous waste
#3	Waste bromine	Corrosive			60#	corrosive hazardous

PLACARDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY none

E.P.A. ID Code No. _____

Address _____

Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name Battelle Industrial Safety

Phone JM Hobbs 37631631

National Response Center 1-800-424-8802 in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature Jeene Hobbs Jeene M Hobbs Date 8 Sept 83

TRANSPORTER #1 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

Transporter No. 1 Signature L A Padilla This is to certify acceptance of the hazardous waste shipment. Date 9-9-83

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

Transporter No. 2 Signature L A Padilla This is to certify acceptance of the hazardous waste shipment. Date 9-9-83

TREATMENT/STORAGE/DISPOSAL FACILITY

T/S/D FACILITY Signature [illegible] This is to certify acceptance of the hazardous waste for treatment, storage, or disposal. Date 9-[illegible]-83

TRANSPORTER #1 COPY 000217

9112241103

DISPOSAL PACKET NUMBER

P83-042

DISPOSAL REQUEST (2-35) PNL-83-008
REVIEWED BY HC BOYNTON DISPOSAL REQUEST COORDINATOR
RHO 3-3516

A. Segregate EHW's and package according to hazard class for DOT approval off-site transport as follows:

(Label all drums with contents)

EWH

Form	Name	Quant.	State	Haz. Cl.	ID	Label
Oxidizer Drum						
B7	Lead Nitrate	1#	S	Oxidizer	UN1469	Oxidizer
C7	Mercurous Nitrate	1 oz	S	Oxidizer	UN1627	Oxidizer
B33	Chromium Trioxide	1#	S		UN1463	Oxidizer
C6	Chromium Oxide	1/4#	S		Unclassified	
Poison Drum						
B16	Phenylmercury actate	20 gm	S	NOS	UN2026	Poison
B15	1-Naphtoic acid	1/2#	S	ORM-E	NA9137	None
B24	lead acetate	1/4#	S	ORM-E	UN1616	None
B28	Chromium acetate	1/2#	S	Unlisted		
B30	P-nitrophenol	1/2#	S	ORM-E	UN1663	None
A24	Nickel Sulfate	1/4#	S	ORM-E	UN9141	None

B. Prepare the remaining neagents for disposal at the Hanford chemical disposal trench in accordance with the attached listings.

Oxidizen

A12	Barium nitrate
A14	Calcium nitrate
A15	Barium chloride
A17	Strontium chloride
A23	Potassium periodate
A30	Barium chloride
C12	Potassium pyrosulfate
C17	Sodium nitrate
C21	Potassium bromide
C23	Ferric nitrate
C25	Sodium bicarbonate
C33	Ammonium bromide
C34	Iodic Acid

A18	Strontium sulfate
A6	Sodium sulfate
A8	Ferric Oxide
A16	Calcium oxide (costic)
A28	Bismath nitrate
C11	Magnesium sulfate, Anhy.
A29	Titanous sulfate
A19	Aluminum octate
A27	Sodium phosphate tribase
C29	Cuprice sulfate
C32	Sodium iodate
B9	Sodium stanate
C14	Sodium borate, tetra
C15	Ferrous sulfate
4	Potassium chloride
A15	Barium chloride
A17	Strontium chloride
C18	Potassium iodide
C24	Sodium borate
C26	Ammonium oxalate
C28	Ferric Sulfate
C30	Sodium sulfate
C31	Sodium Triosulfate

ACIDS

B15	1-Naphtoic acid
B13	Sulfuric acid crgs.
A7	Oxalic acid
A10	Chloropantinic acid
A20	Boric acid
C34	Iodic acid
B25	Anthracene 9-carboxclic acid

BASES

5	Calcium hydroxide (costic)
C11	Potassium hydroxide (corrosive)

On-Site

Organic

B10	Ammonium Chloride
B12	Hydroxalamine hydrochloride
B17	Quinhydrone
B18	N, N-Diphenyl formanide
B19	Manganese acetate
B20	Potassium biphthlate
B21	Dextrose
B22	Sacrose
B23	Starch
B29	Ferric citrate
B31	O = tolidine
B32	Phenolphtaline
C33	Ammonium bromide
B27	Diphenylamine
C13	Ferric ammonium sulfate

Reducers and Non Reactives

B14	Dinoglphtralate
B2	Sodium Thiosulfate
B3	Sodium silicate
C8	Molybdic arhydrate
C10	Potassium ferrocyaride
C27	Stannous chloride
A21	Sodium siliofluoride
A22	Sodium tungstate
A25	Iodine resublimed (corrosive)

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

PNL-83-008

GENERATION: The Generator should complete Part I and forward this form to: WS&DT, 202-S/200 West, Rockwell

A. Generator's Name: Jeene Hobbs Phone: 6-1631 Address: 3762/300area Company: PNL

B. Custodian's Name: Terry Dana Phone: _____ Address: _____ Company: _____

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1 Potassium chromate (EHW)	1#	glass	1	X			EHW ORM-E
2 Sodium thiosulfate	4#	"	4	X			—
3 Sodium silicate, meta	1#	"	1	X			—
4 Potassium chloride	1#	"	1	X			—
5 Calcium hydroxide	8#	"	2	X			CAUSTIC

D. Have appropriate labels been affixed to containers? _____ Not required _____ Lab packs will be lab as required

E. Have efforts been made to recycle (e.g., excess) waste? no

F. Has waste been treated in any manner? no If so, how? _____

G. Storage Location: 332/300 Area

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: _____

Generator's Signature: Jeene Hobbs Jeene M Hobbs Date: 20 April 1983

II. APPROVAL

A. Approved for disposal by Name: H.C. Boynton Phone: 3-3516 Address: 2727-S Co.: RHO

Date: 6-12-83 Signature: Hubert C. Boynton

B. Packaging Requirements (specify): Note Attachment

C. Disposal Location: X Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), 2727 S Other

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: _____ Phone: _____ Address: _____ Company _____

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

1030079

BC-6700-174.1 (N-1-82)

9112231108

PNL-83-008

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
6 Sodium sulfate, Anhy.	1#	glass	1	X			–
7 Oxalic Acid	1/4#	glass	1	X			–
8 Ferric Oxide	1/2#	glass	1	X			–
9 Ammonium Sulfate	1#	"	1	x			–
10 Chloroplatinic acid	1# 7gm	"	1	x			–
11 Thorium chloride	1/4#	"	1	x			–
12 Barium nitrate	1#	"	1	x			oxidizer
[redacted]	[redacted]	"	1	x			
14 Calcium nitrate	1#	"	1	x			oxidizer
15 Barium chloride	1#	"	1	x			oxidizer
16 Calcium oxide	1/4#	"	1	x			caustic
17 Strontium chloride	1/4#	"	1	x			oxidizer
18 Strontium sulfate	1/4#	"	1	x			–
19 Aluminum octoate	1/4#	"	1	x			–
20 Boric acid	1#	"	1	x			–
21 Sodium siliofluoride	1#	"	1	x			–
22 Sodium tungstate	1 oz	"	1	x			–
23 Potassium periodate	4 oz	"	1	x			oxidizer
24 Nickle sulfate (EHW)	1/4#	"	1	x			EHW ORME
25 Iodine, resublimed	3#4#	"	3	x			–
[redacted]	[redacted]	"	1	x			
27 Sodium phosphate, tribase	1#	"	1	x			ORME
28 Bismuth nitrate	1#	"	1	x			–
29 Titanous sulfate	250gm	"	1	x			–
30 Barium chloride	1#	"	1	x			oxidizer
[redacted]	[redacted]	"	1	x			
[redacted]	[redacted]	"	1	x			
33 Calcium oxide	1#	"	1	x			caustic
34 Calcium chloride	1/4#	"	1	x			

0000050

9112221109

BC-6700-174.2 (N-1-82)

PNL - 83 - 008

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
~~[illegible] metal pellets~~	~~[illegible]~~	glass	1	x			
7 Lead nitrate (EHW)	1#	"	1	x			EHW 2-35 oxidizer
~~[illegible] metal [illegible]~~		"	1	x			
9 Sodium stannate	1#	"	1	x			—
10 Ammonium chloride	1#	"	1	x			CRME
~~[illegible] amine~~	~~[illegible]~~	metal	4	x			
12 Hydroxalamine hydrochloride	1#	glass	1	x			—
13 Sulfanilic acid crystals	1/4#	"	1	x			Corrosive
14 Dinonyl phthalate O.K.	1#	"	1	x			—
15 1-Naphthoic acid O.K.	1/2#	"	1	x			—
16 Phenyl mercury acetate (EHW)	20gm	"	2	x			EHW
17 Quinhydrone toxic O.K.	1#	"	1	x			—
18 N,N-Diphenyl formamide toxic, irritant, with oxidizers O.K.	1/4#	"	1	x			—
19 Manganese acetate OK	1#	"	1	x			—
20 Potassium biphthlate OK	1/4#	"	1	x			—
21 Dextrose OK	1#	"	1	x			— } nonhazardous
22 Sucrose OK	1/2#	"	1	x			—
23 Starch OK	1/4#	"	1	x			—
24 lead acetate (EHW)	1/4#	"	1	x			EHW CRME
25 Anthracene-9-carboxylic acid 1/4# OK		"	1	x			—
26 Nickel acetate (EHW)	1/2#	"	1	x			EHW
27 Diphenylamine OK.	1/4#	"	1	x			—
28 Chromium acetate (EHW)	1/2#	"	1	x			EHW
29 Ferric Citrate O.K.	1#	"	1	x			—
30 p-nitrophenol (EHW)	1/2#	"	1	x			EHW CRME
31 o-tolidine OK.	1/2#	"	1	x			—
32 Phenolphtalien O.K.	1/4#	"	1	x			—
33 Chromium Trioxide (EHW)	1#	"	1	X.			EHW oxidizer
34							

0000051

BC-6700-174.2 (N-1-82)

0 1 1 1 3 2 2 1 1 6

c

PNL-83-008

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
6 Chromium oxide (EHW)	1/4#	glass	1	x			EHW ox
7 Mercurous nitrate (EHW)	1 oz	"	1	x			EHW ox
8 Molybdic anhydrate	1/4#	"	1	x			–
~~9 Iron metal filings~~		"	1	x			
10 Potassium ferrocyanide (EHW)	1#	"	1	x			EHW
11 Potassium hydroxide pellets	2#	"	2	x			corrosive
12 Potassium pyrosulfate	1#	"	1	x			oxidizer
13 Ferric ammonium sulfate	1#	"	1	x			–
14 Sodium borate, tetra	1#	"	1	x			–
15 Ferrous sulfate	1#	"	1	x			ORM-E
16 Magnesium sulfate, Anhy	1#	"	1	x			–
17 Sodium nitrate	1/2#	"	1	x			oxidizer
18 Potassium iodide	1#	"	1	x			–
19 Potassium cyanide (EHW)	1/2#	"	1	x			EHW
20 Potassium sulfate	1#	"	1	x			
21 Potassium bromide	1#	"	1	x			
22 Potassium persulfate	1/4#	"	1	x			– oxidizer
23 Ferric nitrate	1#	"	1	x			oxidizer
24 Sodium borate	1#	"	1	x			–
25 Sodium bicarbonate	1#	"	1	x			oxidizer
26 Ammonium oxalate	1#	"	1	x			ORM A
27 Stannous chloride	1#	"	1	x			–
28 Ferric sulfate	1#	:	1	x			ORM E
29 Cupric sulfate	L#	"	1	x			ORM E
30 Sodium sulfate	1/4#	"	1	x			–
31 Sodium thiosulfate	1#	"	1	x			–
32 Sodium iodate	1/4#	"	1	x			–
33 Ammonium bromide	1#	"	1	x			– oxidizer
34 Iodic Acid	1#	"	1	x			oxidizer

0000052

BC-6700-174.2 (N-1-82)

Disposal Request (2-35) PNL-83-008

Reviewed by HC Boynton Disposal Request Coordinator
RHO 3-35/t.

Packaging Instruction:
Lab Pack

A. Segregate EHW's and package according to hazard class for DOT approved off-site Transport as follows:
(Label all drums with contents)

EHW

Form	Name	Quant	State	Hazcl.	ID	Label
Oxidizers Drum						
B7	Lead Nitrate	1#	S	oxidizer	UN1469	oxidizer
C7	Mercurous Nitrate	1oz	S	oxidizer	UN1627	oxidizer
B 33	Chromium Trioxide	1#	S		UN1463	oxidizer
C 6	Chromium oxide	¼#	S		unclassified	
Poison Drum						
B 16	Phenylmercury acetate	20gm	S	NOS	UN2026	Poison
B 15	1-Naphtoic acid	½#	S	ORM-E	NA9137	None
B24	lead acetate	¼#	S	ORM-E	UN1616	None
B29	Chromium acetate	½#	S	unlisted.		
B 30	p-nitrophenol	½#	S	ORM-E	UN1663	None
A 24	Nickle Sulfate	¼#	S	ORM-E	UN9141	None

B. Prepair the remaining reagents for disposal at The Hanford chemical disposal Trench in accordance with The attached listings.

0000053

Oxidizer

A12 Barium nitrate
A14 Calcium nitrate
A15 Barium chloride
A17 Strontium chloride
A23 Potassium periodate
A30 Barium chloride
E12 Potassium pyrosulfate
C17 Sodium nitrate
C21 Potassium bromide
C23 Ferric nitrate
C25 Sodium bicarbonate
C33 Ammonium bromide
C34 Iodic Acid
A18 Strontium sulfate
A6 Sodium Sulfate
A5 Ferric Oxide
A16 Calcium oxide (cotic)
A28 Bismuth nitrate
C11 Magnesium sulfate, Anhy.
A27 Titanous sulfate
A19 Aluminum Octate
A27 Sodium phosphate, Tribase
~~C26 Potassium sulfate~~
C29 Cupric sulfate
C32 Sodium iodate
B9 Sodium stannate
C4 Sodium borate, Tetra
C5 Ferrous sulfate

4 Potassium chloride
A15 Barium chloride
A17 Strontium chloride
C19 Potassium iodide
C24 Sodium borate
C26 Ammonium oxalate
C29 Ferric Sulfate
C30 Sodium sulfate
C31 Sodium Thiosulfate

Acids

B15 1-Naphtoic acid
B13 Sulfamic acid (nus
A7 Oxalic Acid
A10 Chloropentitic acid
A20 Boric Acid
C34 Iodic Acid
B25 Antimonic-4-carbonyl de

Base

5 Calcium hydroxide (lim
C11 Potassium hydroxide (lear

OK

Solids

2-35

On-Site

Organic

B 10 Ammonium Chloride
B 12 Hydroxalamine hydrochloride
B 17 Quinhydrone
B 18. N, N - Diphenyl Formamide
B 19 Manganese acetate
B 20 Potassium biphthilate
B 21 Dextrose
B 22 Sucrose
B 23 Starch
B 29 Ferric Citrate
B 31 O = Tolidine
B 32 Phenolphtaline
C 33 Ammonium bromide
B 27 Diphenylamine
C 13 Ferric ammonium sulfate

Solids

2-35

On-Site

Reducers + Non Reactives

B 14 Dinoylphthalate
2 Sodium Thiosulfate
3 Sodium Silicate
C9 Molybdic anhydride
C10 Potassium ferrocyanide
C21 Stannous chloride

?

A 21 Sodium Silicofluoride
A 22 Sodium Tungstate
A 25 Iodine resublimed corrosive

0000056

4 Potassium chloride
A 15. Barium chloride
A 17 Strontium chloride

Oxidizer

A 12 Barium nitrate
A 14 Calcium nitrate
A 15 Barium chloride
A 17 Strontium chloride
A 23 Potassium periodate
A 30 Barium chloride
C 12 Potassium pyrosulfate
C 17 Sodium nitrate
C 21 Potassium bromide
C 23. Ferric nitrate
C 25 Sodium bicarbonate
C 33 Ammonium bromide
C 34 Iodic Acid
A 18 Strontium sulfate
A 6 Sodium Sulfate
A 8 Ferric Oxide
A 16 Calcium oxide (caustic)
A 28 Bismuth nitrate
C 11 Magnesium sulfate, Anhy.
A 29 Titanous sulfate
A 19 Aluminum Octate
A 27 Sodium phosphate, Tribase
~~C 28~~ ~~Potassium sulfate~~
C 29 Cupric sulfate
C 32 Sodium iodate
39 Sodium stanate
C 4 Sodium borate, Tetra
C 15 Ferrous sulfate

C 18 Potassium Iodide
C 24 Sodium borate
C 26 Ammonium oxalate
C 28 Ferric Sulfate
C 30 Sodium sulfate
C 31 Sodium Thiosulfate

Acids

B 15 1-Naphtoic acid
B 13 Sulfanic acid (nos.
A 7 Oxalic Acid
A 10 Chloropantinic acid
A 20 Boric Acid
C 34 Iodic Acid
B 25 Anthraquinone 9 carboxylic acid

Base

5 Calcium hydroxide (caustic
C 11 Potassium hydroxide (caustic

OK

0000057

Solids

2-35

On-Site

Organic

B 10 Ammonium Chloride
B 12 Hydroxalamine hydrochloride
B 17 Quinhydrone
B 18 N, N-Diphenyl Formamide
B 19 Manganese acetate
B 20 Potassium biphthlate
B 21 Dextrose
B 22 Sucrose
B 23 Starch
B 29 Ferric Citrate
B 31 O-Tolidine
B 32 Phenolphtaline
C 33 Ammonium bromide
B 27 Diphenylamine
C 13 Ferric ammonium sulfate

0000055

Solids

2-35

On-Site

Reducers + Non Reactives

B 14 Dinoylphthalate

2 Sodium Thiosulfate

3 Sodium Silicate

C8 Molybdic anhydride

C17 Potassium ferrocyanide

C27 Stannous chloride

?

A 21 Sodium Silicofluoride

A 22 Sodium Tungstate

A 25 Iodine resublimed corrosive

0000059

6-10-83

Disposal Request (2-35) PNL-83-003
Recieved by HC Boynton Disposal Request Coordinator
RHO 3-3516.

Packaging Instruction:
Lab Pack

A. Segregate EHW's and package according to hazard class for DOT approved off-site Transport as follows:
(Label all drums with contents)

EHW

Form	Name	Quant	State	Hazcl	ID	Label
Oxidizers Drum						
B7	Lead Nitrate	1#	S	oxidizer	UN1469	oxidizer
C7	Mercurous Nitrate	1oz	S	oxidizer	UN1627	oxidizer
B 33	Chromium Trioxide	1#	S		UN1463	oxidizer
C 6	Chromium oxide	1/4#	S		unclassified	
Poison Drum						
B 16	Phenyl mercury acetate	20gm	S	NOS	UN2026	Poison
B 15	1-Naphtoic acid	1/2#	S	ORM-E	NA9137	None
B24	lead acetate	1/4#	S	ORM-E	UN1616	None
B28	Chromium acetate	1/2#	S	unlisted.		
B 30	P-nitrophenol	1/2#	S	ORM-E	UN1663	None
A 24	Nickle Sulfate	1/4#	S	ORM-E	UN9141	None

B. Prepair the remaining reagents for disposal at The Hanford chemical disposal Trench in accordance with The attached listings

000009()

HAZARDOUS WASTE MANIFEST

THIS MEMORANDUM

This document corresponds to disposal requests numbered PNL-83-008.

MANIFEST DOCUMENT NUMBER

PNL-M-83-002 2-35

TO:	FROM:
T/S/D FACILITY Rockwell Hanford Operations	Generator Battelle PNL
E.P.A. ID Code No. WA7-89-000-8967	E.P.A. ID Code No. WA7-89-000-8967
Address Richland, Wa 99352	Address Richland, Wa 99352
Destination Central Landfill - Chemical Trench	Origin 332/300 Area
Phone Marlan Boynto 373-3516	Phone Jeene Hobbs 376-1631

	DOT PROPER SHIPPING NAME	HAZARD CLASS		EPA	WEIGHT	LABELS REQUIRED (or Exception No.)
1	Hazardous waste solid, n.o.s.	ORM-E	NA9189		300#	controlled
	(This is a lab pack of small quantity solids. A copy of the contents list is attached.)					

PLACARDS REQUIRED none

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED subject to the classifications and lawful tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY _____

E.P.A. ID Code No. _____

Address _____

Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name Jeene Hobbs

Phone 376-1631

National Response Center 1-800-424-8802

in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature Jeene M Hobbs Date _____

TRANSPORTER #1 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

Transporter No. 1 This is to certify acceptance of the hazardous waste shipment.

Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

Transporter No. 2 This is to certify acceptance of the hazardous waste shipment.

Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

T/S/D FACILITY This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

Signature _____ Date _____

0000031

T/S/D COPY

9111220111

HAZARDOUS WASTE MANIFEST

THIS SHIPPING ORDER must be legibly filled in, in ink, in Indelible Pencil, or in Carbon. This document corresponds to disposal requests numbered PNL-83-003.

MANIFEST DOCUMENT NUMBER: PNL-M-83-002

TO:	FROM:
T/S/D FACILITY Rockwell Hanford Operations	Generator Battelle PNL
E.P.A. ID Code No. WA7-89-000-3967	E.P.A. ID Code No. WA7-89-000-3967
Address Richland, Wa 99352	Address Richland, Wa 99352
Destination Central Landfill - Chemical Trench	Origin 332/300 Area
Phone Harlan Boynto 373-3516	Phone Jeene Hobbs 376-1631

Shipping Name	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	D.O.T. Waste ID No.	EPA Waste No.	WEIGHT	LABELS REQUIRED (or Exemption No.)
1	Hazardous waste solid, n.o.s.	ORM-E	NA9189		300#	controlled
	(This is a lab pack of small quantity solids. A copy of the contents list is attached.)					

PLACARDS REQUIRED none

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ _____ Per _____

FREIGHT CHARGES: PREPAID ☐ COLLECT ☐

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY _____

E.P.A. ID Code No. _____

Address _____

Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name Jeene Hobbs

Phone 376-1631

National Response Center 1-800-424-8802 in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature Jeene M Hobbs [signature] Date 8 Sept 83

TRANSPORTER #1 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

Transporter No. 1 Signature [signature] This is to certify acceptance of the hazardous waste shipment. Date 9-8-83

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

Transporter No. 2 Signature [signature] This is to certify acceptance of the hazardous waste shipment. Date 9-8-83

TREATMENT STORAGE/DISPOSAL FACILITY

T/S/D FACILITY Signature [signature] This is to certify acceptance of the hazardous waste for treatment, storage, or disposal. Date 9-8-83

TRANSPORTER #1 COPY

000216

9 1 1 2 2 3 1 1 2 1

DISPOSAL PACKET NUMBER

P83-044

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

PNL-83-010

3-9

I. **GENERATION:** The Generator should complete Part I and forward this form to: WS&DT, 202-S/200 West, Rockwell

A. Generator's Name: Jeene Hobbs Phone: 6-1631 Address: 3762/300 Area Company: PNL

B. Custodian's Name: Sue McPartland Phone: 6-5019 Address: 3720/300 Area Company: PNL

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class	
1. 1.5M H_3PO_4 & 0.01 M	5 gal		5		X		corrosive	OK
2. Diethylthiourea								
3. 9% sulfamic acid &	3 gal		3		X		corrosive	OK
4. 5% formaldehyde								
5. 20% HNO_3 & 30% HF	1 gal		1		X		Corrosive	OK

D. Have appropriate labels been affixed to containers? _____ Not required _____ Lab packs will be lab as required.

E. Have efforts been made to recycle (e.g., excess) waste? no

F. Has waste been treated in any manner? no If so, how? _____

G. Storage Location: 332 Bldg/ 300 Area

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: _____

Generator's Signature: Jeene Hobbs *Jeene M Hobbs* Date: 10 May 83

II. **APPROVAL**

A. Approved for disposal by Name: Gary R. Cox Phone: 3-3679 Address: 202-S/200 West Co.: Rockwell

Date: May 18, 1983 Signature: *Gary R. Cox*

B. Packaging Requirements (specify): #1, 2, 3, 4, 5, 6, 8, 9, 14, 15 to Central Landfill; #10, 11, 12, 13, Mercuric Solutions for offsite shipment in 55 gallon drums.

C. Disposal Location: X Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), 2727-S (offsite) Other

III. **TRANSPORTATION/DISPOSAL**

Transporter(s) Name: _____ Phone: _____ Address: _____ Company _____

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

0000095

BC-6700-174.1 (N-1-82)

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Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class	
6. 15% H_2SO_4 & 0.3% HF & 0.01M phenylthiourea	1 gal		1		X		Corrosive	ok.
7.								
8. Sodium Aluminate	solid	remaining	in 55 gal	drum			ORM-B } Corrosive when wet	ok.
9. Sodium Hypochlorite	12 pt	glass	12		X		Corrosive	ok.
10. Mercuric Nitrate sol.							Oxidizer	EMU
11. 0.0141 N	182 oz	glass	6		X			
12. 0.141 N	48 oz	glass	3		X			
13. 1.4	56 oz	glass	7		X			
14. Titanium chloride	3 kg	glass in metal	3		X			ok
15. Titanium isopropyl oxide	2 l	glass	1		X			ok.
16.								
17. Mercury from broken thermometer								
18. sealed & bagged in 6 containers								
19.								
20.								
21.								
22.								
23.								
24.								
25.								
26.								
27.								
28.								
29.								
30.								
31.								
32.								
33.								
34.							0000039	

9 1 1 2 2 4 3 1 1 2 4

HAZARDOUS WASTE MANIFEST

THIS SHIPPING ORDER must be legibly filled in, in ink, in indelible Pencil, or in Carbon, and released by the Agent.

MANIFEST DOCUMENT NUMBER: PNL-M-83-006

This document corresponds to disposal requests numbered PNL-003,007, 010,013, & 014 (or parts thereof) also 015 and 013

TO:	FROM:
T/S/D FACILITY Rockwell Hanford operations	Generator Battelle - PNL
E.P.A. ID Code No. WA-39-000-2967	E.P.A. ID Code No. WA7-89-000-2967
Address Richland, Wa 99352	Address Richland, Wa 99352
Destination Central Landfill Chemical trench	Origin 332 Building 300 Area
Phone Harlan Boynton 373-3516	Phone Jeene Hobbs ~~37611121~~ 376-1631

No.	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Total Quantity	Unit Wt./Vol.	EPA Waste No.	WEIGHT	LABELS REQUIRED (or Exemption No.)
#1	Waste combustible lab pack	Combustible liq				400 #	combustible controlled
#4	Waste flammable liquid lab pack	flammable liq				400#	flammable controlled
#5	Waste flammable liquid lab pack	flammable liq				400#	flammable controlled
#6	Waste flammable liquid	flammable liq				200#	flammable hazardous
#7	Hazardous waste liq & solid nos	ORM-E				400#	hazardous waste
#3	Waste bromine	Corrosive				60#	corrosive hazardous

PLACARDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ _____ per _____

FREIGHT CHARGES: PREPAID ☐ COLLECT ☐

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to the usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the terms and conditions in the governing classifications on the date of shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the bill of lading, including the terms and conditions in the governing classifications, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY none

E.P.A. ID Code No. _____

Address _____

Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name Battelle Industrial Safety

Phone JM Hobbs 37611631

National Response Center 1-800-424-8802

In D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature Jeene Hobbs Jeene M Hobbs Date 8 Sept 83

TRANSPORTER #1 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

Transporter No. 1 Signature L A Padilla This is to certify acceptance of the hazardous waste shipment. Date 9-9-83

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

Transporter No. 2 Signature L A Padilla This is to certify acceptance of the hazardous waste shipment. Date 9-8-83

TREATMENT/STORAGE/DISPOSAL FACILITY

T/S/D FACILITY Signature [illegible] This is to certify acceptance of the hazardous waste for treatment, storage, or disposal. Date 9-[illegible]-83

TRANSPORTER #1 COPY

000217

9 1 1 2 2 1 1 1 2 5

DISPOSAL PACKET NUMBER

P83-055

9 1 1 2 2 4 3 1 1 2 6

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

5-1

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT 202-S/200 West Rockwell

A. Generator's Name: W.W. TAYLOR Phone: 376-1514 Address: 1166/1100 Company: ROCKWELL

B. Custodian's Name: J.T. FOSS Phone: 376-6764 Address: 1169/1100 Company: ROCKWELL

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. TRICHLOROACETIC ACID	2 pt.	PLASTIC	1		X		UNKNOWN
2. CHLOPOFORM	6 pt.	METAL	6		X		" "
3. METHANOL/ ALCOHOL	9 pt.	GLASS	9		X		" "
4.							
5.							

D. Have appropriate labels been affixed to containers? _____ Not required X

E. Have efforts been made to recycle (e.g., excess) waste? NO

F. Has waste been treated in any manner? NO If so, how? N/A

G. Storage location: 1169/1100 ACID STORAGE BUILDING

H. "I certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: _____

Generator's Signature: W.W. TAYLOR Date: 7-26-83

II. APPROVAL

A. Approved for disposal by Name: H C Boynton Phone: 3-3516 Address: 2750E Co.: RHO

Date: 10-12-83 Signature: Harlan C Boynton

B. Packaging Requirements (specify): Refer To Internal Letter Oct 12, 1983, HC Boynton To W.W. Taylor Disposal Analysis and Instruction

C. Disposal Location: X Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), 2727 S Other

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: _____ Phone: _____ Address: _____ Company _____

B. Date Transported/Disposed: 10. 27, 83 BJ Hoyer

C. Transporter's Signature: _____

0000168

BC-6700-174.1 (N-1-82)

9112212127

HAZARDOUS WASTE MANIFEST

THIS MEMORANDUM

is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy of duplicate, covering the property named herein, and is retained solely for filing or record.

MANIFEST DOCUMENT NUMBER

3294-2 5-1

TO:		FROM:	
T/S/D FACILITY	H. C. BOYNTON CHEMICAL TRENCH	Generator	R. CALLAWAY/C.D. HANSEN NOCOLLI MATERIAL FUNCTION
E.P.A. ID Code No.	789-000-8967	E.P.A. ID Code No.	WA 789-000-8967
Address	HANFORD LANDFILL	Address	BLDG. 1166/1100 AREA
Destination		Origin	RICHLAND, WA
Phone		Phone	6-7164

	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	D.O.T. I.D. No.	EPA Haz. Waste No.	WEIGHT	LABELS REQUIRED (or Exception No.)
1	TRICHLOROACETIC ACID SOLUTION	CORROSIVE	UN-2564	D002	1 lb	CORROSIVE
1	METHYL ALCOHOL	FLAMMABLE LIQUID	UN-1230	U154	9 lbs	FLAMMABLE LIQUID

PLACARDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED subject to the classifications and lawful tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY _____

E.P.A. ID Code No. _____

Address _____

Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name R. CALLAWAY

Phone 6-7110

National Response Center 1-800-424-8802 in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature _____ Date 11.24.83

TRANSPORTER #1 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature _____ Date _____

T/S/D F COPY 0000169

9 2 1 1 2 2 1 1 6

Internal Letter

Rockwell International

Date: October 12, 1983.

No. 65950-83-1550

TO: (Name, Organization, Internal Address)

- W. W. Taylor
- Material
- 1166/1100 Area

FROM: (Name, Organization, Internal Address, Phone)

- H. C. Boynton
- Solid Waste Processing
- and Disposal Unit
- 3-3516

Subject: APPROVED DISPOSAL REQUEST 5-1 (ROCKWELL)

The disposal method for chemical reagents listed on Disposal Request 5-1 is prescribed on the attached Disposal Request Analysis. Instruction based upon chemical compatibilities is provided should reagents be combined in a common overpack. The packaging of unopened chemical containers does not require laboratory packing in metal drums, which is the method used only for unsealed containers.

All packaging, labeling, and marking of waste reagents shall be completed in accordance with Department of Transportation (DOT) regulations (49 CFR 171-179). A Hazardous Waste Manifest is required to accompany all waste shipments in accordance with 40 CFR 263.

Arrangements for transporting waste materials to the 2727-S storage facility (for forwarding to offsite disposal) and transporting onsite disposal packages directly to the Hanford Non-Radioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented upon compliance with the stated disposal request instructions and Hazardous Waste Manifest requirements.

Should you require further assistance regarding the disposition of wastes listed on Disposal Request 5-1, please contact the following Rockwell personnel:

H. C. Boynton (3-3616)	Solid Waste Processing & Disposal
G. R. Cox (3-3679)	Industrial Hygeine & Safety (2727-S Offsite Shipment Co-ordinator)
D. L. McCall (6-1651)	Material
A. D. Poor (6-1452)	Transportation

H. C. Boynton, Engineer
Solid Waste Processing
and Disposal Unit

HCB:ra

Attachments

cc: J. F. Albaugh
G. R. Cox GRC by Telecon 10-13-83
D. R. Groth DRG
D. L. McCall
A. D. Poor

0000170

Disposal Analysis 5-1

ONSITE DISPOSAL - Packaging and Waste Manifest information for those chemicals to be shipped to the Hanford Non-Radioactive Hazardous Waste Chemical Trench.

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY PE CONTAINER
Corrosive Material	1.	Trichloroacetic Acid	D002	UN2564	Corrosive	1	Plastic	1 pt.
Flammable Liquid	3.	Methyl Alcohol	U154	UN1230	Flammable Liquid	9	Glass	1 pt.

OFFSITE DISPOSAL - Packaging and Waste Manifest information for this chemical to be shipped to an offsite hazardous waste disposal facility via the 2727-S storage facility.

HAZARD CLASS	DISPOSAL	SHIPPING NAME	EPA NO.	ID NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY PE CONTAINER
ORM-A	2.	Chloroform	U044	UN1888	None	6	Metal	1 pt.

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

5-1

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT 202-S/200 West Rockwell

A. Generator's Name: W.W. TAYLOR Phone: 376-1514 Address: 1166/1100 Company: ROCKWELL

B. Custodian's Name: J.T. FOSS Phone: 376-6764 Address: 1169/1100 Company: ROCKWELL

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1 TRICHLOROACETIC ACID	2 pt.	PLASTIC	1		X		UNKNOWN
2 CHLOROFORM	6 pt.	METAL	6		X		" "
3 METHANOL/ ALCOHOL	9 pt.	GLASS	9		X		" "
4							
5							

D. Have appropriate labels been affixed to containers? _____ Not required X

E. Have efforts been made to recycle (e.g., excess) waste? NO

F. Has waste been treated in any manner? NO If so, how? N/A

G. Storage Location: 1169/1100 ACID STORAGE BUILDING

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: _____

Generator's Signature: W.W. TAYLOR Date: 7-26-83

II. APPROVAL

A. Authorized for disposal by Name: H C Boynton Phone: 3-3516 Address 275CE Co.: RHO

Date: 10-12-83 Signature: Harlan C Boynton

B. Packaging Requirements (specify): Refer To Internal Letter Oct 12, 1983, HC Boynton To W.W. Taylor Disposal Analysis and Instruction

C. Disposal Location: X Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), 2727 S Other

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: _____ Phone: _____ Address: _____ Company _____

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

000017

9 1 1 2 2 4 3 1 3 1

HC-6700-174.1 (N-1-82)

FOLD AND CREASE HERE BEFORE SNAPPING OUT CARBONS

ROCKWELL HANFORD OPERATIONS
NAME OF CONTRACTOR

PROPERTY DISPOSAL REQUEST

CONTROL NO. RHO-83-427
CROSS CONTROL NO.

PART I – DESCRIPTION OF PROPERTY AND REASON FOR DISPOSAL

ITEM NO	QTY.	UNIT	INCLUDE IDENTIFICATION NUMBERS, SUCH AS, NEW, EQUIPMENT PIECE, SERIAL NOS, BUILDING FROM WHICH REMOVED, PROJECT AFFECTED, ETC.	UNIT ACC. VALUE	ACCOUNTING USE ONLY TOTAL VALUE	PROPERTY MGT. USE ONLY DISPOSE OF AS *
1	9	PT	51-0225-225 METHANOL/ ALCOHOL			
2	2	PT	51-0100-730 TRICHLOROACETIC ACID			
3	6	PT	51-1300-125 CHLOROFORM			

Miscellaneous Material

* DISPOSITION SYMBOLS 1 – EXCESS 3 – SCRAP 5 – DESTROY
2 – SALVAGE 4 – DUMP 6. – OTHER (EXPLAIN)

REASON FOR DISPOSAL (IF CONTAMINATED, ATTACH RADIATION SURVEY REPORT)
1. INFERIOR CHEMICALS
2. INFERIOR CHEMICALS
3. INFERIOR CHEMICALS

THE PROPERTY LISTED ABOVE – ☐ IS ☒ IS NOT – TOXIC OR HAZARDOUS TO HUMANS, ANIMALS OR THE ENVIRONS.

COMPONENT		DATE	LOCATION OF MATERIAL
MATERIAL - WAREHOUSE OPERATIONS		7-26-83	
ORIGINATOR W.W. TAYLOR	BUILDING 1166	PHONE 376-1514	LOCATION OF BURIAL
RM CLEARANCE FOR PUBLIC SALE	SURVEY NO.	DATE	

SIGNATURE OF REQUESTING AUTHORITY
W.W. TAYLOR

PART II – INVESTIGATION

AN INVESTIGATION HAS BEEN MADE AND DISPOSITION INSTRUCTIONS HAVE BEEN NOTED IN PART I ABOVE

BY | DATE

PART III – DISPOSITION RECEIPT

DATE

DISPOSED OF PER INSTRUCTIONS IN PART I (BY) | DATE

NOTE: THE SIGNATURE FOR RM CLEARANCE AND THE SURVEY NUMBER MUST BE OBTAINED THE SAME DAY AS THE ARRIVAL OF THE PROPERTY AT THE STORES SALE YARD.

PART IV – APPROVAL

DISPOSITION OF THE ABOVE PROPERTY OR MATERIALS IN ACCORDANCE WITH THE ABOVE RECOMMENDATIONS IS APPROVED

SIGNATURE OF APPROVING OFFICIAL | DATE

PART V – INVENTORY CONTROL

IN THE CASE OF INVENTORY MATERIALS DESIGNATE BY ITEM NUMBER ABOVE ACCOUNT TO BE RELIEVED AND OFFSETTING ACCOUNT TO BE CHARGED

ITEM NO.	DEBIT ACCOUNT	CREDIT ACCOUNT

000017

9112243132

9 1 1 2 1 1 1 3 3

	DOT#	Shipping Name	Hazard class	ID#	Label	EPA#	container type	container quantity	# containers
	1.	Trichloroacetic Acid	Corrosive Material	UN2564	Corrosive	D002	plastic	1 pT	1
EHW	2.	Chloroform	ORM-A	UN1888	None	U044	Metal	1 pT	6
	3.	Methyl alcohol	Flammable liquid	UN1230	Fl. liq.	U154	Glass	1 pT	9

000017A

Disposal Analysis 5-1

ONSITE DISPOSAL - Packaging and Waste Manifest information for those chemicals to be shipped to the Hanford Non-Radioactive Hazardous Waste Chemical Trench.

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY PE CONTAINER
Corrosive Material	1.	Trichloroacetic Acid	D002	UN2564	Corrosive	1	Plastic	1 pt.
Flammable Liquid	3.	Methyl Alcohol	U154	UN1230	Flammable Liquid	9	Glass	1 pt.

OFFSITE DISPOSAL - Packaging and Waste Manifest information for this chemical to be shipped to an offsite hazardous waste disposal facility via the 2727-S storage facility.

HAZARD CLASS	DISPOSAL	SHIPPING NAME	EPA NO.	ID NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY PE CONTAINER
ORM-A	2.	Chloroform	U044	UN1888	None	6	Metal	1 pt.

HAZARDOUS WASTE MANIFEST

THIS SHIPPING ORDER must be legibly filled in, in ink, in Indelible Pencil, or in Carbon, and retained by the Agent.

MANIFEST DOCUMENT NUMBER

3294-2

TO: T/S/D FACILITY	H. C. BOYNTON CHEMICAL TRENCH	FROM: Generator	R. CALLAWAY/C.D. HANSEN ROCKWELL MATERIAL FUNCTION
E.P.A. ID Code No.	789-000-2967	E.P.A. ID Code No.	WA 789-000-8967
Address	HANFORD LANDFILL	Address	BLDG - 1166/1100 AREA
Destination		Origin	RICHLAND, WA
Phone		Phone	6-7494

	DOT PROPER SHIPPING NAME	HAZARD CLASS	ID No.	ERG Guide No.	WEIGHT	LABELS REQUIRED (or Exemption No.)
1	TRICHLOROACETIC ACID SOLUTION	CORROSIVE	UN-2564	B002	1 lb	CORROSIVE
1	METHYL ALCOHOL	FLAMMABLE LIQUID	UN-1230	UN54	9 lbs	FLAMMABLE LIQUID

-RDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY _____

E.P.A. ID Code No. _____

Address _____

Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name R. CALLAWAY

Phone 6-7320

National Response Center 1-800-424-8802

in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature R. Hansen Date 10-24-83

TRANSPORTER #1 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature _____ Date _____

TRANSPORTER #1 COPY

000220

9 1 1 2 2 1 1 1 3 5

POCTWELL HANFORD OPERATIONS
NAME OF CONTRACTOR

PROPERTY DISPOSAL REQUEST

CONTROL NO. RHO-83-427
CROSS CONTROL NO

PART I — DESCRIPTION OF PROPERTY AND REASON FOR DISPOSAL

ITEM NO	QTY	UNIT	INCLUDE IDENTIFICATION NUMBERS, SUCH AS: MFGR. EQUIPMENT PIECE, SERIAL NOS. BUILDING FROM WHICH REMOVED, PROJECT AFFECTED, ETC.	UNIT ACQ. VALUE	ACCOUNTING USE ONLY TOTAL VALUE	PROPERTY MGT. USE ONLY DISPOSE OF AS *
1	9	PT	~~[illegible]~~ METHANOL/ ALCOHOL			
2	2	PT	~~[illegible]~~ TRICHLOROACETIC ACID			
3	6	PT	~~[illegible]~~ CHLOROFORM			

Miscellaneous Material Not In Stock

* DISPOSITION SYMBOLS 1. — EXCESS 2. — SALVAGE 3. — SCRAP 4. — BURY 5. — DESTROY 6. — OTHER (EXPLAIN)

REASON FOR DISPOSAL (IF CONTAMINATED, ATTACH RADIATION SURVEY REPORT.)
1. INFERIOR CHEMICALS
2. INFERIOR CHEMICALS
3. INFERIOR CHEMICALS

THE PROPERTY LISTED ABOVE — ☐ IS ☒ IS NOT — TOXIC OR HAZARDOUS TO HUMANS, ANIMALS OR THE ENVIRONS.

COMPONENT		DATE	LOCATION OF MATERIAL
MATERIAL - WAREHOUSE OPERATIONS		7-26-83	
ORIGINATOR W.W. TAYLOR	BUILDING 1166	PHONE 376-1514	LOCATION OF BURIAL
RM CLEARANCE FOR PUBLIC SALE	SURVEY NO.	DATE 10/20/83	
SIGNATURE OF REQUESTING AUTHORITY W.W. TAYLOR			

PART II — INVESTIGATION

THE INVESTIGATION HAS BEEN MADE AND DISPOSITION INSTRUCTIONS HAVE BEEN NOTED IN PART I ABOVE.

BY | DATE

PART IV — APPROVAL

DISPOSITION OF THE ABOVE PROPERTY OR MATERIALS IN ACCORDANCE WITH THE ABOVE RECOMMENDATIONS IS APPROVED

SIGNATURE OF APPROVING OFFICIAL | DATE

PART III — DISPOSITION RECEIPT

BY | DATE

DISPOSED OF PER INSTRUCTIONS IN PART I (BY) | DATE

NOTE: THE SIGNATURE FOR RM CLEARANCE AND THE SURVEY NUMBER MUST BE OBTAINED THE SAME DAY AS THE ARRIVAL OF THE PROPERTY AT THE STORES SALE YARD.

PART V — INVENTORY CONTROL

IN THE CASE OF INVENTORY MATERIALS DESIGNATE BY ITEM NUMBER ABOVE ACCOUNT TO BE RELIEVED AND OFFSETTING ACCOUNT TO BE CHARGED

ITEM NO.	DEBIT ACCOUNT	CREDIT ACCOUNT

000221

INVENTORY OR PROPERTY ACCOUNTING

9112213136

HAZARDOUS WASTE MANIFEST

THIS SHIPPING ORDER must be legibly filled in, in ink, in Indelible Pencil, or in Carbon, and retained by the Agent.

MANIFEST DOCUMENT NUMBER

3294-1

TO:	H. C. BOYNTON	FROM:	R. CALLAWAY/C.D. HANSEN
T/S/D FACILITY	WASTE STORAGE	Generator	ROCKWELL MATERIAL FUNCTION
E.P.A. ID Code No.	WA 789-000-3967	E.P.A. ID Code No.	WA 789-000-0967
Address	BLDG. 2727-S	Address	BLDG. 1166/1100 AREA
Destination	HANFORD PLANT	Origin	RICHLAND, WA
Phone	3-3616	Phone	376-7494

Number	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Max Wt	EPA Waste	WEIGHT	LABELS REQUIRED (or Exemption No.)
1	CHLOROFORM	ORM-A	UN1888	U044	6 lbs	NONE

PLACARDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED subject to the classifications and lawful tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY _____

E.P.A. ID Code No. _____

Address _____

Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name R. CALLAWAY

Phone 6-7110

National Response Center 1-800-424-8802

in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature C. D. Hansen Date 10-24-83

TRANSPORTER #1 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

REATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature _____ Date _____

TRANSPORTER #1 COPY 000223

JS WASTE MANIFEST HAZARD

9 1 1 2 2 4 1 1 3 7

DISPOSAL PACKET NUMBER

P83-056

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

3-39

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT, 202-S/200 West, Rockwell

A. Generator's Name: W. R. Buchanan Phone: 3-2181 Address: 234-5/200W Company: RHO

B. Custodian's Name: R. R. Fitzpatrick Phone: 3-2283 Address: 234-5/200 W Company: RHO

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. SEE ATTACHED SHEETS							
2.							
3.							
4.							
5.							

D. Have appropriate labels been affixed to containers? _____ Not required AS YET

E. Have efforts been made to recycle (e.g., excess) waste? WASTE OF NO USE

F. Has waste been treated in any manner? NO If so, how? _____

G. Storage Location: 234-5 LAB / 200 W AREA

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: HAS BEEN SURVEYED

Generator's Signature: W R Buchanan Date: 5-12-83

II. APPROVAL

A. Approved for disposal by Name: H.C. Boynton Phone: 3-3516 Address 2750E Co.: Rockwell

Date: 10-31-83 Signature: H C Boynton

B. Packaging Requirements (specify): As required in The Disposal Analysis instruction dated Oct 31, 1983 To W R Buchanan

C. Disposal Location: X Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), 2727-S Other

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: _____ Phone: _____ Address: _____ Company _____

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

0000110

BC-6700-174.1 (N-1-82)

9112210139

Internal Letter

Rockwell International

Date: October 31, 1983

No. 65950-83-1582

TO: (Name, Organization, Internal Address)

- W. R. Buchanan, Manager
- Special Analysis
- 234-5/140B/200W

FROM: (Name, Organization, Internal Address, Phone)

- H. C. Boynton
- Solid Waste Processing &
- Disposal Unit
- 3-3516

Subject: APPROVED DISPOSAL REQUEST 3-39 (ROCKWELL)

Reference: Application, To Dispose of Nonradioactive Hazardous Waste May 12, 1983, W. R. Buchanan.

The disposal method for chemical reagents listed in the Referenced letter is prescribed on the attached Disposal Request Analysis. Chemicals listed within the same "Compatible Group" may be combined in a common overpack.

All packaging, labeling and marking of waste reagents shall be completed in accordance with the prescribed instructions which are based on Department of Transportation (DOT) regulations (49 CFR 171-179). A Hazardous Waste Manifest is required to accompany all waste shipments in accordance with 40 CFR 263.

Arrangements for transporting waste materials to the 2727-S storage facility (for forwarding to offsite disposal) and transporting onsite disposal packages directly to the Hanford Non-Radioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented upon compliance with the stated disposal request instructions and Hazardous Waste Manifest requirements.

Inspections by Rockwell of package content and integrity will be made as required to certify waste is disposed of in the manner designated in the burial analysis. Failure to package in the manner described in the burial analysis will result in suspension of disposal privileges for the offending facility.

Should you require further assistance regarding the disposition of wastes listed on Disposal Request 3-39, please contact the following Rockwell personnel:

H. C. Boynton (3-3516)	Solid Waste Processing & Disposal
G. R. Cox (3-3679)	Industrial Hygeine & Safety (2727-S Offsite Shipment Co-ordinator)

Rockwell International

W. R. Buchanan
Page two
October 31, 1983

D. L. McCall (6-1651)	Material
A. D. Poor (6-1452)	Transportation

H. C. Boynton, Engineer
Solid Waste Processing
& Disposal Unit

HCB:jss

Attachments

cc: J. F. Albaugh
G. R. Cox
D. R. Groth
D. L. McCall
A. D. Poor

0000112

Disposal Analysis 3-39

0000113

I. ONSITE DISPOSAL - Waste reagents listed in this section are to be properly packaged and Manifested for disposal at the Hanford Non-Radioactive Hazardous Waste Chemical Trench.

Chemicals in the same "Compatible Group" as listed on the disposal analysis may be placed in a common overpack.

Instruction for Packaging, Labeling and Marking the over-packs is provided on the last page of the Disposal Analysis.

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY PER CONTAINER
Compatible Group A								
Flammable Liquid	A10	Methanol	U154	UN1230	Flammable Liquid	3	Glass	1500 ml.
"	A29	Flammable liquid n.o.s. (Butyl Acetate)	D001	UN1993	"	1	Glass	500 ml.
"	A33	Flammable liquid n.o.s. (Clylohexone)	D001	UN1993	"	1	Glass	1 L
"	A34	Flammable liquid n.o.s. (Tributylamine)	D001	UN1993	"	1	Glass	100 ml.
Combustible Liquids	A19	Combustible liquid n.o.s. (Ethylexylphos-phate)	NA	NA1993	None	1	Glass	250 ml.
"	A20	Combustible liquid n.o.s. (Ethylhexylhydrogen-Phosphate)	NA	NA1993	None	1	Glass	250 ml.
"	A22	Combustible liquid n.o.s. (Hexylalochol)	NA	NA1993	None	1	Glass	500 ml.
"	A24	Combustible liquid n.o.s. (EthylTrichl-oroacetate)	NA	NA1993	None	1	Glass	500 ml.

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Compatible Group A Cont.								
Non-regulated	A16	Acetate	-	-	-	2	Glass	1 1/2 L
"	A18	Paraffin Oil	-	-	-	1	Glass	1 L
"	A25	NaCl Glycerine	-	-	-	1	Glass	1 L
"	A32	Phenathrolin Ferrous	-	-	-	1	Plastic	125 ml.
Compatible Group B								
Corrosive Material	A14	Corrosive liquid n.o.s. (Propylene)	D002	UN1760	Corrosive	2	Glass	1 gallon
"	A15	Corrosive liquid n.o.s. (Butyl Stearate)	D002	UN1760	Corrosive	2	Glass	2250 ml.
"	A35	Corrosive liquid n.o.s. (Prechloric Acid)	D002	UN1760	Corrosive	1	Glass	500 ml.
"	B12	Corrosive liquid n.o.s. (Fluoro-Lube)	D002	UN1760	Corrosive	1	Plastic	50 ml.
"	C26	Corrosive solid, n.o.s. (Disulfonic Acid)	D002	UN1759	Corrosive	1	Glass	20 gr.
"	D 6	AmoniumHydrogen-fluoride	D002	UN1727	Corrosive	1	Plastic	1 lb.
"	D30	Sodium Hydrosul-fite	D002	NA2923	Corrosive	1	Glass	1 lb.
Oxidizer	D25	Sodium Hydroxide	D002	UN1223	Corrosive	3	Glass	1 lb.

0011C3

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY PER CONTAINER
Compatible Group B Cont.								
Oxidizer	D32	Sodium Hydroxide	D002	UN1223	Corrosive	3	Glass	1 lb.
Compatible Group C								
Poison B	A26	TriButylPhosphate	NA	UN2812	Poison	1	Glass	1 L
"	A31	TriButylPhosphate	NA	UN2812	Poison	1	Glass	1 L
ORME	C12	Sodium Phosphate III	NA	NA9147	None	1	Plastic	1 lb.
"	C16	Ferrous Ammonium Sulfate	NA	NA9122	None	2	Plastic	1 lb.
"	D12	Ferrous Ammonium Sulfate	NA	NA9121	None	1	Glass	1 lb.
"	D29	Sodium Hypophos-phite	NA	NA9147	None	1	Glass	1 lb.
"	D31	Sodium Phosphate	NA	NA9147	None	1	Glass	1 lb.
ORMB	C17	Sodium fluoride	NA	NA1690	None	3	1 Plastic & 1 Glass	1 lb.
"	D24	Sodium Bisalfate Monohydrate	NA	UN1821	None	1	Glass	1 lb.
ORMA	D11	Ammonium Oxalate	NA	NA2449	None	5	Plastic	1 lb.

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Compatible Group D								
Oxidizer	B13	Nitrate n.o.s. (Nitride Nitrogen)	D003	NA1477	Oxidizer	1	Glass	1 L
"	C 6	Sodium Nitrate	D003	UN1500	Oxidizer	2	Plastic	1 lb.
"	C 7	Sodium Nitrate	D003	UN1500	Oxidizer	1	Glass	2 L
"	C21	Nitrate n.o.s. (Strontium Nitrate)	D003	NA1477	Oxidizer	1	Glass	.25 lb.
"	C30	Ferric nitrate	D003	UN1466	Oxidizer	1	Glass	.25 lb.
"	D10	Aluminium Nitrate	D003	UN1438	Oxidizer	3	Glass	1 lb.
"	D17	Nitrate n.o.s. (CerousNitrate)	D003	NA1477	Oxidizer	2	Glass	250 gm.
"	D19	Sodium Nitrate Mixture	D003	UN1498	Oxidizer	2	Glass	1 g.
"	D22	SilverNitrate	D003	UN1493	Oxidizer	2	Glass	1 g.
"	D23	Nitrate n.o.s. (Cerous nitrate)	D003	UN1493	Oxidizer	5	2 Plastic & 1 Glass	.25 lb.
"	D26	Potassium nitrate	D003	UN1486	Oxidizer	2	Glass	1 lb.
"	E19	Ferric Nitrate	D003	UN1460	Oxidizer	1	Glass	1 lb.
"	E 7	Potassium Nitrate	D003	UN1460	Oxidizer	1	Glass	1 lb.

000011 7

0000115

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Compatible Group D Cont.								
Non-Regulated	C 8	Sodium Carbonate	-	-	-	1	Glass	1 lb.
"	C 9	Sodium Meta Silicate	-	-	-	1	Glass	1 lb.
"	C11	Sodium Acetate	-	-	-	1	Plastic	1 lb.
"	C20	Siver Chloride	-	-	-	1	Glass	1 lb.
"	C25	Chlorohydrate	-	-	-	1	Glass	4 oz.
"	C32	Lithium Hydroxide Anh.	-	-	-	1	Glass	2.5 lb.
"	C33	Potassium sulfate	-	-	-	2	Glass	2.5 lb.
"	D 8	Ammonium citrate	-	-	-	1	Glass	1 lb.
"	D 9	Ammonium Molybdate	-	-	-	1	Glass	1 lb.
"	D14	Calcium Carbonate	-	-	-	1	Glass	1 lb.
"	D18	Sodium Oxalate	-	-	-	1	Glass	.25 lb.
"	D20	Cerium Dioxide	-	-	-	1	Glass	100 gm.
"	D27	Potassium carbonate	-	-	-	1	Plastic	1 lb.
"	D28	Magnesium Prechlorate	-	-	-	2	Plastic	1 lb.
"	D33	Sodium Iodide	-	-	-	1	Glass	.25 lb.
"	E12	Strontium flouride	-	-	-	1	Plastic	1 lb.
"	E13	Lithium flouride	-	-	-	1	Glass	1 lb.

EU0119

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY PER CONTAINER
Compatible Group D Cont.								
"	E16	Sodium chloride	-	-	-	1	Glass	1 lb.
"	E17	Strontium chloride	-	-	-	2	1 Plastic & 1 Glass	1 lb.
"	E21	Ammonium Persalfate	-	-	-	1	Glass	1 lb.
"	E22	Zinc Oxide	-	-	-	1	Glass	5 lb.
Compatible Group E								
Non-Regulated	C10	Sucrose	-	-	-	?	Glass	?
"	C13	Azolitmin	-	-	-	1	Glass	5 g.
"	C14	Teirabormophenol-suponephthalein	-	-	-	1	Glass	5 g.
"	C15	Oxalic Acid	-	-	-	4	3 Plastic & 1 Glass	1 lb.
"	C18	Sand	-	-	-	1	Plastic	1 lb.
"	C19	Oxalic Acid	-	-	-	1	Glass	5 lb.
"	C22	Sulfosalicylic Acid	-	-	-	1	Glass	.25 lb.
"	C24	Tangstic Acid	-	-	-	1	Glass	4 oz.
"	C27	Phenathroline	-	-	-	4	Glass	40 gr.
"	C29	Zinc dithiol	-	-	-	2	Glass	1 gr.

TP000120

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY PER CONTAINER
Compatible Group E Cont.								
"	C31	Uresae	-	-	-	2	Glass	50 gr.
"	D21	Orzan	-	-	-	1	Glass	10 g.
"	E 8	8-Hydroxyquinoline	-	-	-	1	Glass	.25 gr.
"	E 9	Rosolic Acid	-	-	-	1	Glass	15 gr.
"	E10	Trioctylphosphire Oxide	-	-	-	1	Glass	25 gr.
"	E11	Neutral Red	-	-	-	1	Glass	10 gr.
"	E14	Tolidine Dihydro-chloride	-	-	-	1	Glass	1 lb.
"	E15	Citric Acid	-	-	-	1	Glass	1 lb.
"	E18	Hyproxylamine-Hydrochloride	-	-	-	1	Plastic	1 lb.
"	E20	Salicylic Acid	-	-	-	2	Glass	2.5 lb.
"	E23	Moleular sieve	-	-	-	1	Glass	1 lb.
"	E24	8-Quinolinol	-	-	-	1	Glass	1 oz.

0000121

II. <u>OFFSITE DISPOSAL</u> - Waste reagents listed in this section are "Extremely Hazardous Waste" (EHW) and are to be properly packaged and manifested for shipment to an offsite disposal facility in accordance with state of Washington law (chapter 173-303 WAC). The Hanford generator has the responsibility for packaging shipment of EHW to the off-site staging facility 2727-S/200W. Off site disposal shipments originating from 2727-S will be organized by Rockwell.

Chemicals in the same "Computible Group" as listed on the disposal analysis may be plac Instruction for Packaging, Labeling ack is provided on the last page of the

Compatible

0900122

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY PER CONTAINER
Compatible Group I								
Flammable Liquid	A 8	Touene	U220	UN1294	Flammable Liquid	2	Glass	1 L.
"	A11	Xylene Mixture	U239	UN1307	"	2	Glass	1 L.
"	A12	Xylene Mixture	U239	UN1307	"	1	Glass	500 ml.
"	A21	1, 4, Dioxane	U108	UN1165	"	1	Glass	500 ml.
"	A23	Pyridine	U196	UN1282	"	1	Glass	500 ml.
"	B 8	Xylene Mixture	U239	UN1307	"	1	Glass	100 ml.
"	B 7	Xylene Mixture	U239	UN1307	"	1	Glass	1 L.
Compatible Group II								
Poison B	A 6	Nitrobenzene	U169	UN1662	Poison	8	Glass	4 L.
"	B 6	Nitrobenzene	U169	UN1662	Poison	2	Glass	300 ml.
"	B10	Poisonous Liquid n.o.s. (Mono-bromo Benzene)	NA	UN2810	Poison	1	Glass	150 ml.
"	C28	Arsencal compound solid n.o.s. (Arsenazo III)	D004	UN1557	Poison	1	Glass	1 gr.
ORMA	A 9	Tetrachloroethlene	U228	UN1897	None	4	Glass	1 L.
"	A17	Carbontetrachlor-ide	U211	UN1846	None	1	Glass	1 L.

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Compatible Group II Cont.								
ORMA	A28	Carbontetrachloride	U211	UN1846	None	1	Glass	1 L.
"	B11	Carbontetrachloride	U211	UN1846	None	1	Glass	100 ml.
"	B14	Carbontetrachloride Mixture	U211	UN1846	None	1	Glass	250 ml.
"	B16	Carbontetrachloride Mixture	U211	UN1846	None	1	Glass	250 ml.
"	A30	Tetrachloroethylene Mixture	U228	UN1897	None	1	Glass	300 ml.
"	A27	Tetrachlorethylene Mixture	U228	UN1897	None	1	Glass	100 ml.
Compatible Group III								
Poison B	D16	Arsonic Trioxide	P012	UN1561	Poison	2	Glass	.5 lb.
"	C23	Mercury Sulfate	D009	UN2025	Poison	1	Glass	500 gr.
ORME	E 6	Vanadium Pentoxide	P120	UN2862	None	1	Glass	1 lb.

0000124

Instruction for Packaging, Labeling, and Marking overpacked reagents for both on site and off site disposal.

- Reagents must be placed in strong-tight metal container(s). eg. 10, 30, 55 gallon metal drums.
- Inert packing material must be used to separate individual containers within the overpack, eg. Kitty Litter or Vermiculite.
- The DOT Hazard class Label(s) must be applied to the overpack.
- A weather proof listing of the reagents must be applied to the overpack. eg. a protected cut out of the above information which includes shipping name and identification may be fixed to the overpack.
- Mark on the overpack lid "This side up".
- Mark the weight of the overpack if the drum exceeds 110 lbs.
- Mark a package identification number which correlates with the Manifest information.

DISPOSAL PACKET NUMBER

P84-009

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

GENERATION: The Generator should complete Part I and forward this form to: WS&DT, 202-S/200 West, Rockwell

5-9

A. Generator's Name: Maryanne Kummerer Phone: 3-4616 Address: 1118N,100N Company: UNC

B. Custodian's Name: Ken Oberg Phone: 3-1589 Address: 1706-KE, 100K Company: UNC

C. Waste Description (If more than five items, attach additional sheets)

Generator Name	Total Quantity	Type of Container	Number of Containers	Check One: Sol.	Liq.	Gas	Hazard Class
Sodium Hydrosulfite	12 lb.	1 lb. glass jar	12	X			
Sodium Hydrosulfite	5 lb.	can	1	X			
Sodium Dichromate	6+lb.	glass jar	7	X			
Sodium Chromate	1 lb.	glass jar	1	X			
Potassium Chromate	½ lb.	glass jar	1	X			

[illegible] Are [illegible] containers? _____ [illegible] _____

[illegible] Are [illegible] excess waste? _____

[illegible] Are [illegible] manner? No. If so, how? _____

1706-KE, 100-K

[illegible] Transportation [illegible] Bill of Lading Control Form Number REF 113-23

[illegible] Signature: Lori Clary for Maryanne Kummerer Date: Aug 25, 1983

II. APPROVAL

A. Approval [illegible] Name: H. C. Boynton Phone: 3-3516 Address: 2750-E [illegible] Rockwell

Date: Jan 19, 1984 Signature: [illegible]

B. [illegible] Comments (Specify): Refer to Disposal Analysis 5-9

C. Disposal Location (check one): X Chemical Trench, _____ Asbestos Trench, _____ 212-P (Storage), X Other 2727-S

III. TRANSPORTATION DISPOSAL

A. Transporter's Name: [illegible] Phone: 376 6154 Address: _____ Company: Kirtland

B. Date Transported Disposed: 2/3/84

C. Transporter's Signature: [illegible]

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BC 5700-174.1 N-1-821

(5-9)

Generic Name	Total Quantity	Type of Container	Number of Containers	Check One: Sc	Liq.	Gas	Hazard Class
6. Potassium Bichromate	1 lb.	glass jar	1	X			
7. 1-EthylquinoliniumIodide	100 g.	glass jar	1	X			
8. Ammonium Sulfate	13 lb.	glass jar	13	X			
9. Aluminum Oxide (Ignited Powder)	2 lb.	glass jar	2	X			
10. Ammonium Sulfide	1 pt.	glass bottle	1		X		
11. Glyceryl Triacetate	32 oz.	glass bottle	1		X		
12. Sodium Metabisulfite	1 lb.	glass jar	1	X			
13. Ferrous Sulfate-$7H_2O$	6 lb.	glass jar	6	X			
14 Nickelous Chloride	½ lb.	glass jar	1	X			
15 Banox (Calgon)	1 kg.	Glass in can	1	X			
16 Gelatine Powder	1 lb.	glass jar	1	X			
17 Flexible Collodion	1 pt.	glass bottle	1		X		
18 Purifloc C-31 (Dow Chemical)	1 l.	plastic bottle	1		X		
19 Weld-on 28 Component C Promotor (Industrial Polychemical Service, Gardenia, CA)	500 g.	glass	1	X			
20 Alum	500 cc	plastic	1		X		
21 Formaldehyde	½ l.	plastic	1		X		
22 Castor Oil	250 ml.	glass	1		X		
23 Photo-Flo 200 solution (Kodak)	1 pt.	plastic	1		X		
24 Glycerin	½ lb.	glass	1		X		
25. Sulfite Indicator (Betz Laboratories)	4 lb.	glass	4	X			
27 Cupferron	200 g.	glass	2	X			
28. Cronox 272 (Creosote) (Aqueous Chemical Co.)	100 ml.	glass	1		X		
29.							
30.							
31							
32.							
33							
34							

000020

9 1 1 2 2 4 3 1 1 5 6

Rockwell Hanford Operations
Energy Systems Group
P.O. Box 800
Richland, WA 99352

Rockwell International

JAN 20 1984

In reply, refer to Letter R84-0206

Mr. K. C. Oberg
UNC Nuclear Industries
Post Office Box 490
Richland, Washington 99352

Dear Mr. Oberg:

APPROVED DISPOSAL REQUEST 5-9

Reference: Application to Dispose of Non-Radioactive Hazardous Waste, August 25, 1983

Rockwell Hanford Operations (Rockwell) has completed review of the referenced Disposal Request and prescribed the method for the disposal of the listed chemical reagents. Chemicals listed within the same "Compatible Group" may be combined in a common overpack.

All packaging, labeling, and marking of waste reagents shall be completed in accordance with the prescribed instructions which are based on Department of Transportation (DOT) regulations (49 CFR 171-179). A Hazardous Waste Manifest is required to accompany all waste shipments in accordance with 40 CFR 263.

Arrangements for transporting waste materials to the Hazardous Waste Storage Facility, 2727-S/200 West, (for forwarding to offsite disposal) and transporting onsite disposal packages directly to the Hanford Non-Radioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented upon compliance with the stated disposal request instructions and Hazardous Waste Manifest requirements. Contact Mr. A. D. Poor, extension 6-1452, for transport arrangements.

Inspection by Rockwell of package content and integrity will be made as required to certify waste is disposed of in the manner described in the burial analysis. Failure to package in the manner described in the burial analysis will result in suspension of disposal privileges by the offending facility.

Rockwell International

Mr. K. C. Oberg
Page 2
. .. 2 0 1984

Should you require further assistance regarding the disposition of wastes listed on Disposal Request 5-9, please contact me on 3-3516.

Very truly yours,

F. C. Boynton, Engineer
Solid Waste Processing & Disposal Unit

-CB:cec

Att.

cc: G. C. Cox - Rockwell, w/att
A. D. Poor - Rockwell, W/att

000002

Disposal Analysis 5-9

ONSITE DISPOSAL - Waste reagents listed on the following pages are to be properly packaged and manifested for disposal at the Hanford Non-Radioactive Hazardous Waste Chemical Trench. Compatible Group designations have been supplied to assist in organizing the loading lab packs. Reagents within a Compatible Group may be placed in a common lab pack.

Compatible Group A contains Item numbers 1, 2, 3, 4, 5, 6, 7, 12, 13, 14, 15, 16, 17, 18
Compatible Group B contains Item numbers 8, 9, 11, 19, 25
Compatible Group C contains Item numbers 10, 23, 24, 28

Instruction for Packaging, Labeling and Marking;

- Reagents must be placed in strong tight metal container(s), e.g., 10-, 30-, or 55-gallon drums.
- Inert packing material must be used to separate individual containers within the overpack; e.g., Kitty Litter or Vermiculite.
- The DOT Hazard class label (Flammable Liquid) must be applied to the lab pack containing Compatible Group C reagents.
- A weather-proof listing of the reagents must be applied to all overpacks; e.g., a protected cutout of the reagent data information which includes shipping name, DOT identification and Disposal Analysis number 5-9 may be fixed to each overpack.
- Mark on the overpack lid, "THIS SIDE UP."
- Mark the weight of the drum if it exceeds 110 pounds.
- Mark a package identification number which correlates with the Hazardous Waste Manifest information.
- The presence of an ORM-A designated reagent will further require the marking of ORM-A on the side of the drum. The designation must be placed within a rectangle that is approximately 1/4-inch larger on each side than the lettering width.

000053

COMPATIBLE GROUP A:

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINER	CONTAINER TYPE	QUANTITY PER CONTAINER
ORM-B	1.	Sodium hydrogen sulfide	NA	NA2693	None	12	Glass	1 lb.
ORM-B	2.	Sodium hydrogen sulfide	NA	NA2693	None	1	Can	5 lb.
ORM-A	3.	Sodium bichromate	NA	NA1470	None	7	Glass	1 lb.
ORM-E	4.	Sodium chromate	NA	NA9145	None	1	Glass	1 lb.
ORM-E	5.	Potassium chromate	NA	NA9142	None	1	Glass	.5 lb.
ORM-E	7.	Hazardous Waste Solid n.o.s. (1-Ethyquinelinium Iodide)	NA	NA9189	None	1	Glass	10 oz.
ORM-B	12.	Sodium Metabisulfite	NA	NA2893	None	1	Glass	1 lb.
ORM-E	13.	Ferrous Sulfate (hydrate)	NA	NA9125	None	6	Glass	1 lb.
ORM-E	14.	Nickel chloride (Nickelous chloride)	NA	NA9139	None	1	Glass	.5 lb.
	15.	Calgon	-Non-regulated			1	Glass	1 Kg.
	16.	Gelatine powder	-Non-regulated			1	Glass	1 lb.
	17.	Flexible collodion	-Non-regulated			1	Glass	1 pt.
	18.	Polyelectrolyts	-Non-regulated			1	Plastic	1 L.
	26.							
	27.							

430309

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINER	CONTAINER TYPE	QUANTITY PER CONTAINER
COMPATABILITY GROUP B:								
ORM-E	8.	Hazardous Waste solid n.o.s. (Ammonium Sulfate)	NA	NA9189	None	13	Glass	1 lb.
ORM-A	9.	ORM-A n.o.s. (Aluminium Oxide)	NA	NA1693	None	2	Glass	1 lb.
ORM-E	11.	Hazardous Waste liquid n.o.s. (Glycenyl triacetate)	NA	NA9189	None	1	Glass	32 oz.
ORM-E	19.	Hazardous Waste solid n.o.s. (Weldon 28 Component C)	NA	NA9189	None	1	Glass	800 g.
	25.	Glycerin	-Non-regulated			1	Glass	.5 lb.
COMPATABILITY GROUP C:								
Flammable liquid	10.	Ammonium Sulfide solution	D001	UN2683	Fl-liquid	1	Glass	32 oz.
	23.	Castor oil	-Non-regulated			1	Glass	250 ml.
Combustible liquid	24.	Alcohol n.o.s. (Photo-flo 200)	D001	UN1987	None	1	Plastic	1 pt.
ORM-E	28.	Hazardous waste liquid n.o.s (Creosote)	NA	NA9189	None	1	Glass	100 g.

Disposal Analysis 5-9

OFFSITE DISPOSAL - Reagent number 22 listed on this disposal request must be properly packaged and manifested for shipment to an offsite disposal facility. Waste constituents within the solutions were determined to contain "Extremely Hazardous Waste" (EHW) and in accordance with Washington State Law (Chapter 173-303 WAC) cannot be disposed of at the Hanford Hazardous Waste Chemical Trench.

The Hanford generator has the responsibility for packaging and shipment arrangements of EHW to secure its delivery to the Chemical Offsite Staging Facility 2727-S/200 West. Further offsite EHW shipment originating from 2727-S will be arranged by Rockwell Hanford Operations.

Instructions for Packaging, Labeling and Marking;

- The one-half liter of Formaldehyde solution noted on Disposal Request 5-9 may be packaged in a five gallon metal can. Use Vermiculite or Kitty-Litter to separate containers and fill void spaces.
- The proper shipping name "Formaldehyde solution," the DOT I.D.# UN2209, and the Disposal Analysis Number (5-9) must be posted on the can lid.
- Mark an identification number on the can which correlates with the Hazardous Waste Manifest.

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY PER CONTAINER
ORM-A	22.	Formaldehyde solution	U122	UN2209	None	1	Plastic	.5L

930000

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT 202-S 200 West Rockwell

5-9

A. Generator's Name: Maryanne Kummerer Phone: 3-4616 Address: 1118N,100N Company: UNC

B. Custodian's Name: Ken Oberg Phone: 3-1589 Address: 1706-KE, 100K Company: UNC

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	Check One: Sol	Liq.	Gas	Hazard Class
Sodium Hydrosulfite	12 lb.	1 lb. glass jar	12	X			
Sodium Hydrosulfite	5 lb.	can	1	X			
Sodium Dichromate	6+lb.	glass jar	7	X			
Sodium Chromate	1 lb.	glass jar	1	X			
Potassium Chromate	½ lb.	glass jar	1	X			

D. [illegible] containers? _____ [illegible] _____

E. [illegible] been made to recycle (e.g., excess) waste? _____

F. [illegible] any manner? No. If so, how? _____

G. [illegible] 1706-KE, 100-K

[illegible] material has been released to Radiation [illegible] form has [illegible] my knowledge." Survey Card Number REF 113-23

Signature: [illegible] for Maryanne Kummerer Date: Aug 25, 1983

II. APPROVAL

A. Approved for disposal by Name: H. C. Boynton Phone: 3-3516 Address: 2750-E Co Rockwell

Date: Jan 19, 1984 Signature: [illegible]

B. Packaging Requirements (specify): Refer to Disposal Analysis 5-9

C. Disposal Location: X Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), X Other 2727-S

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: _____ Phone: _____ Address: _____ Company _____

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

000027

SC-6700-174.1 (N-1-82)

9 1 1 2 2 4 3 1 1 6 3

(5-9)

Generic Name	Total Quantity	Type of Container	Number of Containers	Check One: Sol.	Liq.	Gas	Hazard Class
6. Potassium Bichromate	1 lb.	glass jar	1	X			
7. 1-EthylquinoliniumIodide	100 g.	glass jar	1	X			
8. Ammonium Sulfate	13 lb.	glass jar	13	X			
9. Aluminum Oxide (Ignited Powder)	2 lb.	glass jar	2	X			
10. Ammonium Sulfide	1 pt.	glass bottle	1		X		
11. Glyceryl Triacetate	32 oz.	glass bottle	1		X		
12. Sodium Metabisulfite	1 lb.	glass jar	1	X			
13. Ferrous Sulfate-$7H_2O$	6 lb.	glass jar	6	X			
14. Nickelous Chloride	½ lb.	glass jar	1	X			
15. Banox (Calgon)	1 kg.	Glass in can	1	X			
16. Gelatine Powder	1 lb.	glass jar	1	X			
17. Flexible Collodion	1 pt.	glass bottle	1		X		
18. Purifloc C-31 (Dow Chemical)	1 l.	plastic bottle	1		X		
19. Weld-on 28 Component C Promotor	500 g.	glass	1	X			
20. (Industrial Polychemical Service, Gardenia, CA)							
21. Alum	500 cc	plastic	1		X		
22. Formaldehyde	½ l.	plastic	1		X		
23. Castor Oil	250 ml.	glass	1		X		
24. (Kodak) Photo-Flo 200 solution	1 pt.	plastic	1		X		
25. Glycerin	½ lb.	glass	1		X		
26. Sulfite Indicator (Betz Laboratories)	4 lb.	glass	4	X			
27. Cupferron	200 g.	glass	2	X			
28. Cronox 272 (Creosote)	100 ml.	glass	1		X		
29. (Aqueous Chemical Co.)							
30.							
31.							
32.							
33.							000028
34							

9 1 1 2 2 4 3 1 1 6 4

PG[illegible]ED

5-[illegible]9

Done
10/7/84

Jim, Hal — Marianne Summers

Enclosed is a copy of the list of chemicals at RE-1726 that we took to Phoenix. The original of this form was sent by Fen Oleg to the addresses at the top.

We would like your advice on packaging, labeling, ~~etc~~ etc of this material.

A similar list is being prepared for 1651 Rm 50.

MK

Harlan, Have at it!

000023

Copy Original To

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

5-3

I. GENERATION: The Generator should complete Part I and forward this form to:

WS&DT
2026/200 West
Rockwell

3-1973

A. Generator's Name: Maryanne Kummerer Phone: 3-4616 Address: 1118N,100N Company: UNC

B. Custodian's Name: Ken Oberg Phone: 3-1589 Address: 1706-KE, 100K Company: UNC

C. Waste Description (If more than five items, attach additional sheets)

	Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1	Sodium Hydrosulfite	12 lb.	1 lb.glass jar	12	X			
2	Sodium Hydrosulfite	5 lb.	can	1	X			
3	Sodium Dichromate	6+lb.	glass jar	7	X			
4	Sodium Chromate	1 lb.	glass jar	1	X			
5	Potassium Chromate	½ lb.	glass jar	1	X			

D. Has appropriate labels been affixed to containers? _____ Not required _____

E. Has efforts been made to recycle (e.g. excess) waste? _____

F. Has waste been treated in any manner? No. If so, how? _____

G. Storage Location 1706-KE, 100-K

H. I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge. Survey Card Number KER 112-83

Generator's Signature for Ken Oberg for Maryanne Kummerer Date Aug 25, 1983

II. APPROVAL

A. Approved for disposal by Name: _____ Phone: _____ Address _____ Co. _____

Date: _____ Signature: _____

B. Packaging Requirements (specify): _____

C. Disposal Location: _____ Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), _____ Other

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: _____ Phone: _____ Address: _____ Company _____

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

000030

BC-4700-174.1 (N-1-82)

9112243111166

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
6. Potassium Bichromate	1 lb.	glass jar	1	X			
7. 1-Ethylquinoliniumiodide	100 g.	glass jar	1	X			
8. Ammonium Sulfate	13 lb.	glass jar	13	X			
9. Aluminum Oxide (Ignited Powder)	2 lb.	glass jar	2	X			
10. Ammonium Sulfide	1 pt.	glass bottle	1		X		
11. Glyceryl Triacetate	32 oz.	glass bottle	1		X		
12. Sodium Metabisulfite	1 lb.	glass jar	1	X			
13. Ferrous Sulfate-$7H_2O$	6 lb.	glass jar	6	X			
14. Nickelous Chloride	½ lb.	glass jar	1	X			
15. Banox (Calgon)	1 kg.	Glass in can	1	X			
16. Gelatine Powder	1 lb.	glass jar	1	X			
17. Flexible Collodion	1 pt.	glass bottle	1		X		
18. Purifloc C-31 (Dow Chemical)	1 l.	plastic bottle	1		X		
19. Weld-on 28 Component C Promotor	500 g.	glass	1	X			
20. (Industrial Polychemical Service, Gardenia, CA)							
21. Alum	500 cc	plastic	1		X		
22. Formaldehyde	½ l.	plastic	1		X		
23. Castor Oil	250 ml.	glass	1		X		
24. (Kodak) Photo-Flo 200 solution	1 pt.	plastic	1		X		
25. Glycerin	½ lb.	glass	1		X		
26. Sulfite Indicator (Betz Laboratories)	4 lb.	glass	4	X			
27. Cupferron	200 g.	glass	2	X			
28. Cronox 272 (Creosote)	100 ml.	glass	1		X		
29. (Aqueous Chemical Co.)							
30.							
31.							
32.							
33.							
34.							

alcohol - 2 g.

Q Kodak - Lab.
NY - 3-13-5.5.
(455) 724-4976
716-724-4976
John Cooke A-37
716-724-4237

00001

BC-4700-174.2 (N-1-82)

DISPOSAL PACKET NUMBER

P84-010

9 1 1 2 2 4 3 1 1 6 8

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

PNL-83-025

GENERATION: The Generator should complete Part I and forward this form to: WS&DT 202-S/200 West Rockwell 5-21

A. Generator's Name: Jeene Hobbs Phone: 6-1631 Address: 3762/300 Area Company: PNL

B. Custodian's Name: Bill Rossitor Phone: 6-5946 Address: ~~325~~/300 Area 324 Company: PNL

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	Check One: Sol.	Liq.	Gas	Hazard Class
Anhydrous borax		55 gal metal	2	X			
Sodium nitrate		55 gal metal	3	X			
" "		30 gal metal	3	X			
Boric acid		55 gal metal	2	X			
" "		30 gal metal	2	X			

Labels will be applied as necessary.

E. [illegible] yes

F. [illegible] no [illegible]

[illegible] JA Jones lot/1100 area

[illegible] Radiation [illegible] Part [illegible] Survey Card Number

[illegible] Jeene Hobbs Date: 24 August 83

APPROVAL

A. [illegible] Name: H. C. Boynton Phone: 3-3516 Address: 2750 E Co.: Rockwell

Date: 11/3/83 Signature: [illegible]

B. Packaging Requirements (specify): Refer to disposal analysis 5-21 same date

C. Disposal Location: X Chemical Trench, ____ Asbestos Trench,

(check one): ____ 212-P (Storage), sanitary landfill Other

III. TRANSPORTATION DISPOSAL

A. Transporter's Name: D.E. Phelps Phone: Landfill Address: Central Landfill Company: RHO

Date Transported Disposed: 2-9-84

C. [illegible] D.E. Phelps

000046

BC 3700-174.1 N-1-82

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
6. Sodium nitrite		30 gal metal	8	X			
7. Sodium nitrite, borax,		55 gal metal	1	X			
8. frit, sand, gravel		30 gal metal	3	X			
9. Boric acid, frit,		55 gal metal	4	X			
10. soda ash, silica, and							
11. warehouse sweepings							
12. Boric acid, anhydrous		30 gal metal	4	X			
13. borax, brown sand							
14 Boric Acid, borax,		55 gal metal	1	X			
15. KNO_3		30 gal metal	4	X			
16 Boric Acid, sand, fine		55 gal metal	3	X			
17 frit, borax, sodium nitrate							
18 Boric acid, frit,		55 gal metal	4	X			
19 borax, sodium nitrate							
20 Borax, sand, frit,		55 gal metal	3	X			
21 MT chemical bags		30 gal metal	1	X			
22 Collodial silica		55 gal metal	2	X	X		
23.							
24							
25. These chemicals are from several palates down in the JAJones lot. They were outside							
26. without much protection. Over a couple of years the bags disintegrated and the chemicals							
27. are now useless. These drums are on 13 palates.							
28. low sodium nitrate sludge		55 gal	1	X	X		
29. normal sodium nitrate sludge		55 gal	1	X	X		
30. sodium carbonate sludge spiked		55 gal	5	X	X		
31 A copy of the PR for these chemical mixtures is attached for your information.							
32.							
33. Fine frit		55 gal metal	57	X			00[illegible]
34							

9111221311170

HAZARDOUS WASTE MANIFEST

THIS MEMORANDUM

is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy of manifest, covering the property named herein, and is intended solely for filing or record.

MANIFEST DOCUMENT NUMBER

PHL-K-83-003 5-21

This document refers to disposal request #PHL-83-025

TO:	FROM:
T/S/D FACILITY Rockwell Hanford Operation	Generator Battelle - PNL
E.P.A. ID Code No. WA-890-090-067	E.P.A. ID Code No. WA-890-090-067
Address Richland WA 99352	Address Richland, WA 99352
Destination Central Landfill - chemical trench	Origin 3A Jones lot/3000 Area
Phone Marlan Boynton 372-2516	Phone Jeene Hobbs 376-1631

No. Shipping Units	DOT PROPER SHIPPING NAME	HAZARD CLASS	DOT Hazard No. & No.	EPA Waste Code	WEIGHT	LABELS REQUIRED (or Exemption No.)
19	Anhydrous borax	Unregulated				
1	Sodium nitrate	oxidizer	UN 1498	D003	55 gal	oxidizer
1	Waste sodium nitrate	oxidizer	UN 1498	D003	55 gal	oxidizer
1	Waste corrosive solids n.o.s. (boric acid)	corrosive mat.	UN 1759	D002	55 gal	corrosive
1	Waste corrosive liquid n.o.s. (boric acid)	corrosive mat	UN 1760	D002	55 gal	corrosive
	Waste sodium nitrate	oxidizer	UN 1498	D003	55 gal	oxidizer

PLACARDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY _____

E.P.A. ID Code No. _____

Address _____

Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name Jeene Hobbs

Phone 376-1631

National Response Center 1-800-424-8802 in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature Jeene Hobbs Date _____

TRANSPORTER #1 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT, STORAGE, DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature _____ Date _____

000018

T/S/D F COPY

POUR COPY RECEIVED

HAZARDOUS WASTE MANIFEST

THIS MEMORANDUM

is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

MANIFEST DOCUMENT NUMBER

PNL-4-33-009 page 2 of 2

TO:	FROM:
T/S/D FACILITY Rockwell Hanford Operations	Generator Battelle - PNL
E.P.A. ID Code No. WA-39-000-2967	E.P.A. ID Code No. WA-39-000-6967
Address Richland, WA 99352	Address Richland, WA 99352
Destination Central Landfill - chemical trench	Origin JA Jones lot/ 3000 Area
Phone Marlan Boynton 373-3516	Phone Joene Hobbs 376-1631

No. Shipping Units	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Haz. Waste I.D. No.	EPA Haz Waste No.	WEIGHT	LABELS REQUIRED (or Exemption No.)
1	Waste sodium nitrite mixture	oxidizer	UN 1500	D003	55 gal	oxidizer
1	Waste corrosive solids n.o.s. (boric acid, frit, soda ash, silica sweepings)	corrosive mat.	UN 1759	D002	55 gal	corrosive
14	Waste corrosive solids n.o.s.	corrosive mat	UN1759	D002	55 gal	corrosive
1	Waste corrosive solids n.o.s. mix (boric acid, sand, borax, frit, soda ash)	corrosive mat	UN 1759	D002	55 gal	corrosive
1	Waste sodium nitrate mixture	oxidizer	UN 1498	D001	55 gal	oxidizer
1	(boric acid, sand, frit, borax, borax, sand, frit, 1 NT bags	sodium nitrate) Unregulated				

PLACARDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any part of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY _____

E.P.A. ID Code No. _____

Address _____

Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name [illegible]

Phone [illegible]

National Response Center 1-800-424-8802

in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature [illegible] Date _____

TRANSPORTER #1 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT, STORAGE, DISPOSAL FACILITY

000043

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature _____ Date _____

T/S/D F COPY

POOR COPY RECEIVED

R83-4000

Rockwell Hanford Operations
Energy Systems Group
P.O. Box 800
Richland, WA 99352

Rockwell International

In reply refer to letter R83-4000

NOV 0 3 1983

Ms. J. M. Hobbs
Development Engineer
Laboratory Safety Department
Pacific Northwest Laboratory
P. O. Box 999
Richland, Washington 99352

Dear Ms. Hobbs:

APPROVED DISPOSAL REQUEST 5-21 (PNL-83-025)

Reference: Application to Dispose of Non-radioactive Hazardous Waste, August 24, 1983, J. M. Hobbs

Rockwell Hanford Operations (Rockwell) has completed review of the Reference Disposal Request for bulk useless chemicals. The disposal methods for these wastes are prescribed on the attached Disposal Request Analysis.

All packaging, labeling, and marking of waste reagents shall be completed in accordance with Department of Transportation (DOT) regulations (49 CFR 171-179). A Hazardous Waste Manifest is required to accompany all waste shipments in accordance with 40 CFR 263.

Arrangements for transporting onsite disposal packages directly to the Hanford Non-Radioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented upon compliance with the stated disposal request instructions and Hazardous Waste Manifest requirements.

Inspection by Rockwell of package content and integrity will be made as required to certify waste is disposed of in the manner described in the burial analysis. Failure to package in the manner described in the burial analysis will result in suspension of disposal privileges by the offending facility.

000050

Rockwell
International

Should you require further assistance regarding the disposition of wastes listed on Disposal Request 5-21 please contact me on 3-3516.

Very truly yours,

H. C. Boynton, Engineer
Solid Waste Processing & Disposal Unit

HC3:bjb

Att.

cc: A. D. Poor - RHO, w/att
G. C. Cox - RHO, w/att

Rockwell Hanford Operations
Energy Systems Group
P.O. Box 800
Richland, WA 99352

Rockwell International

In reply refer to letter R83-4000

NOV 0 3 1983

Ms. J. M. Hobbs
Development Engineer
Laboratory Safety Department
Pacific Northwest Laboratory
P. O. Box 999
Richland, Washington 99352

Dear Ms. Hobbs:

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Reference: Application to Dispose of Non-radioactive Hazardous Waste, August 24, 1983, J. M. Hobbs

Rockwell Hanford Operations (Rockwell) has completed review of the Reference Disposal Request for bulk useless chemicals. The disposal methods for these wastes are prescribed on the attached Disposal Request Analysis.

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Inspection by Rockwell of package content and integrity will be made as required to certify waste is disposed of in the manner described in the burial analysis. Failure to package in the manner described in the burial analysis will result in suspension of disposal privileges by the offending facility.

Rockwell International

Should you require further assistance regarding the disposition of wastes listed on Disposal Request 5-21 please contact me on 3-3516.

Very truly yours,

H. C. Boynton, Engineer
Solid Waste Processing & Disposal Unit

HCB:bjb

Att.

cc: A. D. Poor - RHO, w/att
G. C. Cox - RHO, w/att

Packaging and Waste Manifest information for those chemicals to be shipped to the Hanford Non-Radioactive Hazardous Waste Chemical Trench.

DISPOSAL REQUEST NO	SHIPPING NAME	HAZARD CLASS	ID. NO.	LABEL EPA NO.	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
1.	Anhydrous borax	(unregulated chemical)			2	Metal Drum 17 H	55 gallon
2.	Sodium nitrate	Oxidizer	UN1498	Oxidizer D001	3	"	55 gallon
3.	Sodium nitrate	Oxidizer	UN1498	Oxidizer D001	3	"	30 gallon
4.	Boric acid (corrosive solids n.o.s.)	Corrosive Material	UN1759	Corrosive D002	2	"	55 gallon
5.	Boric acid (corrosive solids n.o.s.)	Corrosive Material	UN1759	Corrosive D002	2	"	30 gallon
6.	Sodium nitrate	Oxidizer	UN1498	Oxidizer D001	8	"	30 gallon
7.	Sodium nitrate, Mixture (borax, frit, sand, gravel)	Oxidizer	UN1498	Oxidizer D001	1	"	55 gallon
9.	Corrosive solids n.o.s. Mixture (Boric acid, frit, soda ash silica, & sweepings)	Corrosive Material	UN1759	Corrosive D002	4	"	55 gallon
12.	Corrosive solids n.o.s. Mixture (Boric acid, anhydrous borax brown sand)	Corrosive Material	UN1759	Corrosive D002	4	"	30 gallon

DISPOSAL REQUEST NO.	SHIPPING NAME	HAZARD CLASS	ID. NO.	LABEL EPA NO.	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
14.	Corrosive solids n.o.s., Mixture (Boric Acid, borax, KNO_3)	Corrosive Material	UN1759	Corrosive D002	1	Metal Drum 17 H	55 gallon
16.	Sodium nitrate, mixture (Boric Acid, sand, frit, borax sodium nitrate)	Oxidizer	UN1498	Oxidizer D001	4	"	30 gallon
18.	Sodium nitrate, mixture (Boric Acid, frit, borax Sodium nitrate)	Oxidizer	UN1498	Oxidizer D001	3	"	55 gallon
20.	Borax, sand, frit, & MT Chemical bags	(unregulated chemical)			3 1	" "	55 gallon 30 gallon
28.	Sodium nitrate, Mixture (low sodium nitrate, ferric hydroxide)	Oxidizer	UN1498	Oxidizer D001	1	"	55 gallon
29.	Sodium nitrate, Mixture (normal sodium nitrate, ferric hydroxide)	Oxidizer	UN1498	Oxidizer D001	1	"	55 gallon
30.	Corrosive solids nox, Mixture (ferric hydroxide, sodium Carbonate)	Corrosive Material	UN1759	Corrosive D002	5	"	55 gallon

The following waste shall be Transported to The Hanford Central land fill for disposal

22.	Collodial silica	(unregulated waste)			2	Metal Drum	55 gallon
33.	Fine frit	(unregulated waste)			46	"	55 gallon

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

PNL-83-025

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT 202-S/200 West Rockwell 5-21

A. Generator's Name: Jeene Hobbs Phone: 6-1631 Address: 3762/300 Area Company: PNL

B. Custodian's Name: Bill Rossitor Phone: 6-5946 Address: ~~325~~ 324/300 Area Company: PNL

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1 Anhydrous borax		55 gal metal	2	X			
2 Sodium nitrate		55 gal metal	3	X			
3 " "		30 gal metal	3	X			
4 Boric acid		55 gal metal	2	X			
5 " "		30 gal metal	2	X			

D. Have labels been affixed to containers? _____ Not required: _____ Labels will be applied as necessary.

E. Have efforts been made to recycle (e.g., excess) waste? yes

F. Has waste been treated in any manner? no If so, how? _____

G. Storage location: JAJones lot/1100 area

H. I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge. Survey Card Number _____

Generator's Signature: Jeene Hobbs Date: 24 August 83

II. APPROVAL

A. Approved for disposal by Name: H. C. Boynton Phone: 3-3516 Address 2750 E Co.: Rockwell

Date: 11/3/83 Signature: _____

B. Packaging Requirements (specify): Refer to disposal analysis 5-21 same date

C. Disposal Location: X Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), sanitary landfill Other

III. TRANSPORTATION/DISPOSAL

A. Transporter's Name: _____ Phone: _____ Address: _____ Company _____

B. Date Transported/Disposed: _____

C. Transporter's Signature: _____

000056

BC 6700-174.1 (N-1-82)

9 1 1 2 2 3 1 1 7 9

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol	Liq.	Gas	Hazard Class
6. Sodium nitrite		30 gal metal	8	X			
7. Sodium nitrite, borax,		55 gal metal	1	X			
8. frit, sand, gravel		30 gal metal	3	X			
9. Boric acid, frit,		55 gal metal	4	X			
10. soda ash,silica, and							
11. warehouse sweepings							
12. Boric acid, anhydrous		30 gal metal	4	X			
13. borax, brown sand							
14 Boric Acid, borax,		55 gal metal	1	X			
15. KNO_3		30 gal metal	4	X			
16 Boric Acid, sand, fine		55 gal metal	3	X			
17 frit, borax, sodium nitrate							
18 Boric acid, frit,		55 gal metal	4	X			
19 borax, sodium nitrate							
20 Borax, sand, frit,		55 gal metal	3	X			
21 MT chemical bags		30 gal metal	1	X			
22. Collocial silica		55 gal metal	2	X	X		
23.							
24							
25. These chemicals are from several palates down in the JAJones lot. They were outside							
26. without much protection. Over a couple of years the bags disintegrated and the chemicals							
27. are now useless. These drums are on 13 palates.							
28. low sodium nitrate sludge		55 gal	1	X	X		
29. normal sodium nitrate sludge		55 gal	1	X	X		
30. sodium carbonate sludge spiked		55 gal	5	X	X		
31 A copy of the PR for these chemical mixtures is attached for your information.							
32.							
33 Fine frit		55 gal metal	46	X			
34							

000057

HAZARDOUS WASTE MANIFEST

THIS SHIPPING ORDER must be legibly filled in, in ink, in indelible Pencil, or in Carbon, and retained by the Agent.

MANIFEST DOCUMENT NUMBER

PNL-M-83-009

This document refers to disposal request #PNL-83-025

TO:	FROM:
T/S/D FACILITY Rockwell Hanford Operation	Generator Battelle - PNL
E.P.A. ID Code No. WA-89-000-8967	E.P.A. ID Code No. WA-89-000-8967
Address Richland, WA 99352	Address Richland, WA 99352
Destination Central Landfill - chemical trench	Origin JA Jones lot/1000 Area
Phone Harlan Boynton 373-3516	Phone Jeene Hobbs 376-1631

No. Shipping Units	DOT PROPER SHIPPING NAME	HAZARD CLASS	Mat'l ID No.	EPA Waste No.	WEIGHT	LABELS REQUIRED (or Exemption No.)
59 2	FRIT 200 MESH Anhydrous borax	UNREGULATED Unregulated			55 gal	
3	Sodium nitrate	oxidizer	UN 1498	D003	55 gal	oxidizer
3	Waste sodium nitrate	oxidizer	UN 1498	D003	30 gal	oxidizer
2	Waste corrosive solids n.o.s. (boric acid)	corrosive mat.	UN 1759	D002	55 gal	corrosive
2	Waste corrosive solids n.o.s. (boric acid)	corrosive mat	UN 1759	D002	30 gal	corrosive
8	Waste sodium nitrite	oxidizer	UN 1500	D003	30 gal	oxidizer

PLACARDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

Shipper or Consignor

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)	EMERGENCY RESPONSE INFORMATION
T/S/D FACILITY none	CONTACT Name Jeene Hobbs
E.P.A. ID Code No.	Phone 376-1631
Address	National Response Center 1-800-424-8802
Destination	in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature Jeene Hobbs Jeene M Hobbs Date

TRANSPORTER #1 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature D E Phelps Chemical Trench Date 8-9-84

TRANSPORTER #1 COPY

000387

HAZARDOUS WASTE MANIFEST

THIS SHIPPING ORDER must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent.

MANIFEST DOCUMENT NUMBER

PNL-M-83-009 page 2

TO:	FROM:
T/S/D FACILITY Rockwell Hanford Operations	Generator Battelle - PNL
E.P.A. ID Code No. WA-89-000-8967	E.P.A. ID Code No. WA-89-000-8967
Address Richland, WA 99352	Address Richland, WA 99352
Destination Central Landfill - chemical trench	Origin JA Jones lot/ 3000 Area
Phone Harlan Boynton 373-3516	Phone Jeene Hobbs 376-1631

No. Shipping Units	DOT PROPER SHIPPING NAME	HAZARD CLASS	Haz Mat ID. No.	EPA Haz Waste No	WEIGHT	LABELS REQUIRED (or Exemption No.)
1	Waste sodium nitrite mixture	oxidizer	UN 1500	D003	55 gal	oxidizer
4	Waste corrosive solids n.o.s. (boric acid,frit,soda ash, silica &sweepings)	corrosive mat.	UN 1759	D002	55 gal	corrosive
$4	Waste corrosive solids n.o.s. (boric acid, anhydrous, and brown sand)	corrosive mat	UN1759	D002	30 gal	corrosive
1	Waste corrosive solids n.o.s. mix (boric acid, borax, & KNO_3)	corrosive mat	UN 1759	D002	55 gal	corrosive
4	Waste sodium nitrate mixture (boric acid, sand, frit, borax, & sodium nitrate)	oxidizer	UN 1498	D003	30 gal	oxidizer
4	Borax, sand, frit, & MT bags	Unregualted				

PLACARDS REQUIRED 7 PLASTIC DRUMS 55gal - Sodium Nitrite Sludge Oxidizer

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Signature of Consignor

FREIGHT CHARGES
PREPAID ☐ COLLECT ☐

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY none
E.P.A. ID Code No. _____
Address _____
Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name Jeene Hobbs
Phone 376-1631

National Response Center 1-800-424-8802
in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature Jeene Hobbs Jeene M Hobbs Date _____

TRANSPORTER #1 [signature] E.P.A. ID No. _____
Address _____
City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____
Address _____
City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature D E Phelps Chemical Trench Date 2 9 84

TRANSPORTER #1 COPY 000388

DISPOSAL PACKET NUMBER

P84-025

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT 202-S/200 West Rockwell 6-35

3-2248

A. Generator's Name: D. G. SHEPARD Phone: 3-2450 Address: MO-922/200E Company: RHO

B. Custodian's Name: _____ Phone: _____ Address: _____ Company: _____

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. URETHANE COMPONENT A	2 GAL	M	2 + 1 PT		✓		
2. " COMPONENT B	1 PT	M	1		✓		
3. CON CHEM A/B	2 GAL	M	2		✓		
4. XYLENE	2 PTS	G	2		✓		
5. PARAFFIN OIL	1 PT	G	1		✓		

D. Have appropriate labels been affixed to containers? YES Not required _____

E. Have efforts been made to recycle (e.g., excess, waste)? YES

F. Has waste been treated in any manner? NO If so, how? _____

G. Storage Location 3rd Floor AMV - 202 S - 200 W

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: _____

Generator's Signature: David Shepard Date: 1/12/84

II. APPROVAL

A. Approved for disposal by Name: H. C. Boynton Phone: 3-3516 Address 2750-E Co.: Rockwell

Date: Jan 17, 1984 Signature: Harlan C. Boynton

B. Packaging Requirements (specify): Refer to Disposal Analysis 6-35

C. Disposal Location: X Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), X Other 2727-S

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: HI MAXEX Phone 6886 Address: 1171 Key Company RHO

B. Date Transported, Disposed: 5-1-84

C. Transporter(s) Signature: [illegible]

000093

BC 6700-174.1 (N-1-82)

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

GENERATION: The Generator should complete Part I and forward this form to:

WS&DT
202-S/200 West
Rockwell

PAGE TWO
6-35

A. Generator's Name: _____ Phone: _____ Address: _____ Company: _____

B. Custodian's Name: _____ Phone: _____ Address: _____ Company: _____

C. Waste Description: (If more than five items, attach additional sheets)

	Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
6	Red Ind Oil	1 PT	G	1		✓		
7	Xylenes	1 PT	G	1		✓		
8	DBBP	1 Liter	P	1		✓		
9	Glycerol	1 GAL	P	1		✓		
10	Xylan	1 PT	P	1		✓		
11	NPH	2 QT	P	1		✓		

D. [illegible] been put back into container? _____ [illegible] _____

E. [illegible] been made to recycle (e.g., excess waste)? _____

F. [illegible] been treated in any manner? _____ If so, how? _____

G. [illegible] _____

[illegible] material has been released by Radiation Monitoring [illegible] applicable) and that Part One of this form has [illegible] to the best of my knowledge. Survey Card Number _____

Generator Signature _____ Date: _____

II. APPROVAL

A. Approved for Disposal by Name: _____ Phone: _____ Address _____ Co: _____

Date: _____ Signature: _____

B. Packaging Requirements (specify): _____

C. Disposal Location: _____ Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), _____ Other

III. TRANSPORTATION/DISPOSAL

A. Transporter's Name: R. J. Mackey Phone 68860 Address: 11 [illegible] Company RHO

Date Transported Disposed: 5-1-84

C. Transporter's Signature: R. J. Mackey

000100

BC 6700-174.1 (N-1-82)

Internal Letter

Rockwell International

Date: January 16, 1984

No. 65950-84-30

TO: (Name, Organization, Internal Address)
D. G. Shepard
MO-922/200E

FROM: (Name, Organization, Internal Address, Phone)
H. C. Boynton
Solid Waste Processing
& Disposal Unit
3-3516

Subject: APPROVED DISPOSAL REQUEST 6-35 (Rockwell)

Ref: Application To Dispose of Non-Radioactive Waste, January 12, 1984, D. G. Shepard

The disposal method for chemical reagents listed in the referenced application is prescribed on the attached Disposal Request Analysis.

All packaging, labeling and marking of waste reagents shall be completed in accordance with the prescribed instructions which are based on Department of Transportation (DOT) regulations (49 CFR 171-179). A Hazardous Waste Manifest is required to accompany all waste shipments in accordance with 40 CFR 263.

Arrangements for transporting waste materials to the 2727-S storage facility (for forwarding to offsite disposal) and transporting onsite disposal packages directly to the Hanford Non-Radioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented upon compliance with the stated disposal request instructions and Hazardous Waste Manifest requirements. Contact A. D. Poor (6-1452) for transport arrangements.

Inspections by Rockwell of package content and integrity will be made as required to certify waste is disposed of in the manner designated in the burial analysis. Failure to package in the manner described in the burial analysis will result in suspension of disposal privileges for the offending facility.

Should you require further assistance regarding the disposition of wastes listed on Disposal Request 6-35, please contact the following Rockwell personnel:

H. C. Boynton	Solid Waste Processing & Disposal (3-3516)
G. R. Cox	Industrial Hygiene & Safety (2727-S Offsite Shipment Coordinator) (3-3679)

Rockwell International

D. L. McCall	Material (6-1651)
A. D. Poor	Transportation (6-1452)

H. C. Boynton, Engineer
Solid Waste Procesing & Disposal Unit

HCB:peb

Att.

cc: C. R. Cox
D. R. Groth
A. D. Poor
L. H. Rodgers

ONSITE DISPOSAL - Waste reagents numbered 1, 2, 3, 5, 6, 8, 9, 10 and 11 from the attached Listing are to be properly packaged and manifested for disposal at the Hanford Non-Radioactive Hazardous Waste Chemical Trench.

Instructions for Packaging, Labeling and Marking:

- The above identified reagents are compatible for packaging in a single 17H 55-gallon drum. Use vermiculite to separate individual containers and to fill void space.
- Place a "Flammable liquid" label on the side of the drum.
- Post on the drum lid a listing of reagents contained within the drum. Include reagent shipping names, EPA identification No. #, DOT identification No. #, and the Disposal Analysis Number (6-35).
- Mark on the drum lid "This End Up."
- Mark an identification number on the drum which correlates with the Hazardous Waste Manifest.

Disposal Analysis 6-35

OFFSITE DISPOSAL - Reagents numbered 4 and 7 listed on this disposal request must be properly packaged and manifested for shipment to an offsite disposal facility. Waste constituents within the solutions were determined to contain "Extremely Hazardous Waste" (EHW) and in accordance with Washington State Law (Chapter 173-303 WAC) cannot be disposed of at the Hanford Hazardous Waste Chemical Trench.

The Hanford generator has the responsibility for packaging and shipment arrangements of EHW to secure its delivery to the chemical offsite staging facility 2727-S/200W. Further offsite EHW shipment originating from 2727-S will be arranged by Rockwell Hanford Operations.

Instructions for Packaging, Labeling and Marking

- The three pints of Xylene noted on Disposal Request 6-35 may be packaged in a five gallon metal can. Use Vermiculite or Kitty-Litter to separate containers and fill void spaces.
- The DOT Hazard class "Flammable Liquid" label must be applied to the can.
- The proper shipping name "Xylene," the DOT I.D.# UN1307, and the Disposal Analysis Number (6-35) must be posted on the can lid.
- Mark an identification number on the can which correlates with the Hadardous Waste Manifest.

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY TOTAL
Flammable Liquid	1.	Flammable liquid n.o.s. Urethane Component A	D001	UN1993	Flammable Liquid	3	Metal	2 gal.
Flammable Liquid	2.	Flammable liquid n.o.s. Urethan Component B	D001	UN1993	"	1	Metal	1 pt.
Flammable Liquid	3.	Flammable liquid n.o.s. Con Chem A/B	D001	UN1993	"	2	Metal	2 gal.
Flammable Liquid	4.	Xylene	D001	UN1307	"	2	Glass	2 pts.
Flammable Liquid	5.	Flammable liquid n.o.s. Paraffin Oil	D001	UN1993	"	1	Glass	1 pt.
———	6.	Red Ind Oil	Unregulated			1	Glass	1 pt.
Flammable Liquid	7.	Xylene (Xytol)	D001	UN1307	Flammable Liquid	1	Glass	1 pt.
Flammable Liquid	8.	Flammable liquid n.o.s. DBBP	D001	UN1993	"	1	Plastic	1 L.
———	9.	Glycerol	Unregulated			1	Plastic	1 gal.
———	10.	Xylan (Dye) #2014	Unregulated			1	Plastic	1 pt.
Flammable Liquid	11.	Flammable liquid n.o.s. NPH	D001	UN1993	Flammable Liquid	1	Plastic	2 qts.

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

I. **GENERATION:** The Generator should complete Part I and forward this form to: WS&DT 202-S/200 West Rockwell

6-35

A. Generator's Name: D. E. SHEPARD Phone: 3-2450 Address: MO-922/200E Company: RHO

B. Custodian's Name: _____ Phone: _____ Address: _____ Company: _____

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. URETHANE COMPONENT A	2 GAL	M	2 + 1 PT		✓		
2. " COMPONENT B	1 PT	M	1		✓		
3. CONCHEM A/B	2 GAL	M	2		✓		
4. XYLENE	2 PTS	G	2		✓		
5. PARAFFIN OIL	1 PT	G	1		✓		

D. Have appropriate labels been affixed to containers? YES Not required _____

E. Have efforts been made to recycle (e.g., excess) waste? YES

F. Has waste been treated in any manner? NO If so, how? _____

G. Storage Location: 3rd Floor AMU - 202 S - 200 W

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: _____

Generator's Signature: David Shepard Date: 1/12/84

II. **APPROVAL**

A. Approved for disposal by Name: H. C. Boynton Phone: 3-3516 Address 2750-E Co.: Rockwell

Date: Jan 17, 1984 Signature: Harlan C. Boynton

B. Packaging Requirements (specify): Refer to Disposal Analysis 6-35

C. Disposal Location: X Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), X Other 2727-S

III. **TRANSPORTATION/DISPOSAL**

Transporter(s) Name: _____ Phone: _____ Address: _____ Company _____

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

000106

BC-6700-174.1 (N-1-82)

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

PAGE TWO
6-35

GENERATION: The Generator should complete Part I and forward this form to: WS&DT
202-S/200 West
Rockwell

A. Generator's Name: _____ Phone: _____ Address: _____ Company: _____

B. Custodian's Name: _____ Phone: _____ Address: _____ Company: _____

C. Waste Description: (If more than five items, attach additional sheets)

	Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
6	Red Ind Oil	1 PT	G	1		✓		
7	Xylenes	1 PT	G	1		✓		
8	DBBP	1 Liter	P	1		✓		
9	Glycerol	1 GAL	P	1		✓		
10	XYLAN	1 PT	P	1		✓		
11	NPH	2 QT	P	1		✓		

D. Have appropriate labels been affixed to containers? _____ Not required _____

E. Have efforts been made to recycle (e.g., excess) waste? _____

F. Has waste been treated in any manner? _____ If so, how? _____

G. Storage Location: _____

"I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: _____

Generator's Signature: _____ Date: _____

II. APPROVAL

A. Approved for disposal by Name: _____ Phone: _____ Address _____ Co.: _____

Date: _____ Signature: _____

B. Packaging Requirements (specify): _____

C. Disposal Location: _____ Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), _____ Other

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: _____ Phone: _____ Address: _____ Company _____

Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

000107

BC 6700-174.1 (N-1-82)

DISPOSAL PACKET NUMBER

P84-028

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

4-9

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT 202-S/200 West Rockwell

A. Generator's Name: R.E. CALLAWAY Phone: 6-0906 Address: 1100/1166 Company: RHO

B. Custodian's Name: R.E. CALLAWAY Phone: 6-7110 Address: 1100/1166 Company: RHO

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. SEE ATTACHED LIST							
2.							
3.							
4.							
5.							

D. Have appropriate labels been affixed to containers? YES Not required _____

E. Have efforts been made to recycle (e.g., excess) waste? YES

F. Has waste been treated in any manner? NO If so, how? _____

G. Storage location: 1166 BLGD. 1100 AREA

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: NOT APPLICABLE

Generator's Signature: R.E. Callaway Date: 6/8/93

II. APPROVAL

A. Approved for disposal by Name: R.C. Bagley Phone: 3-3516 Address: 2750E Co.: RHO

Date: 9-20-93 Signature: R.C. Bagley

B. Packaging Requirements (specify): Per Sent To Internal Letter Sept. 1993 RC Bagley To RE Callaway including Disposal analysis

C. Disposal Location: ✓ Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), 2727-S Other

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: L.D. Padilla Phone: 6-6654 Address: 1171 Company: RHO

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

93-0000131

SC-6700-174.1 (N-1-82)

HAZARDOUS WASTE MANIFEST

THIS MEMORANDUM

is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

MANIFEST DOCUMENT NUMBER

3293-1 U-9

T/S/D FACILITY	FROM:
E.P.A. ID Code No. WA 789-000-8967	Generator RAY CALLAWAY/C.D. HANSEN
Address CHEMICAL TRENCH	E.P.A. ID Code No. WA 789-000-8067
Destination HANFORD LANDFILL	Address BLDG. 1166/1100 AREA
Phone	Origin MATERIALS WAREHOUSE
	Phone 376-7110/376-7484

No. Containers	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Hazardous Waste ID No.	EPA Hazardous Waste No.	WEIGHT	LABELS REQUIRED (or Exemption No.)
~~7~~	~~ACETONE~~	~~FLAMMABLE LIQUID~~	~~UN-1090~~	~~D-001~~	~~7 lbs~~	~~FLAMMABLE LIQUID~~
31	BUTYL ALCOHOL	FLAMMABLE LIQUID	NA-1120	D-001	31 lbs	FLAMMABLE LIQUID
2	ALCOHOL, NOS (GLYCERIDE)	COMBUSTIBLE LIQUID	UN-1987	NONE	23 lbs	NONE
1	SODIUM PHOSPHATE	CORROSIVE	NA-9147	NONE	4 lbs	NONE

PLACARDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY _____

E.P.A. ID Code No. _____

Address _____

Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name _____

Phone _____

National Response Center 1-800-424-8802 in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature _____ Date _____

TRANSPORTER #1 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature _____ Date _____

T/S/D F COPY 93-0000132

9112281111195

HAZARDOUS WASTE MANIFEST

THIS MEMORANDUM

is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

MANIFEST DOCUMENT NUMBER

3293 -1

TO:	FROM:
T/S/D FACILITY	Generator RAY CALLAWAY / C.D. HANSEN
E.P.A. ID Code No. WA 789-890-8967	E.P.A. ID Code No. WA 789-000-8967
Address CHEMICAL TRENCH	Address BLDG. 1166/1100 AREA
Destination HANFORD LANDFILL	Origin MATERIALS WAREHOUSE
Phone	Phone 376-7110/376-7494

No. of Containers	Proper Shipping Name	Hazard Class	War Veterans ID No.	EPA War Waste No.	Weight	Labels Required (or Exemption No.)
100	HYDROFLUORIC ACID	CORROSIVE	UN-1790	U-134	100 lbs	CORROSIVE
3/5	CORROSIVE SOLID, NOS (SULFAMIC ACID)	CORROSIVE	UN-1759	NONE	5 lbs	CORROSIVE
6/20	CORROSIVE SOLID, NOS (TRICHLOROACETATE)	CORROSIVE	UN-1759	NONE	20 lbs	CORROSIVE
1/5	CORROSIVE SOLID, NOS LITHIUM HYDROXIDE	CORROSIVE	UN-1759	D-002	5 lbs	CORROSIVE
2/10	SODIUM HYDROXIDE	CORROSIVE	UN-1823	D-002	20 lbs	CORROSIVE
1/2	AMMONIUM CHLORIDE	CORROSIVE	NA-9085	NONE	2 lbs	NONE

PLACARDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY _____
E.P.A. ID Code No. _____
Address _____
Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name _____
Phone _____

National Response Center 1-800-424-8802
in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature _____ Date _____

TRANSPORTER #1 _____ E.P.A. ID No. _____
Address _____
City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____
Address _____
City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature _____ Date _____

T/S/D F COPY 83-0000133

HAZARDOUS WASTE MANIFEST

THIS MEMORANDUM

is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

MANIFEST DOCUMENT NUMBER

3253 -1

T/S/D FACILITY	FROM:
E.P.A. ID Code No. WA 789-0008967	Generator RAY CALLAWAY/C.D. HANSEN
Address CHEMICAL TRENCH	E.P.A. ID Code No. WA 789-000-8967
Destination HANFORD LANDFILL	Address BLDG. 1166/1100 AREA
Phone	Origin MATERIALS WAREHOUSE
	Phone 376-7110/376-7494

No. Containers	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Material ID No.	EPA Haz Waste Code	WEIGHT	LABELS REQUIRED (or Exemption No.)
2	POTASSIUM NITRATE	OXIDIZER	UN-1486	D-002	18 lbs	OXIDIZER
7	POTASSIUM PERMANGANATE	OXIDIZER	UN-1490	D-002	79 lbs	OXIDIZER
1	SILVER NITRATE	OXIDIZER	UN-1493	D-002	12 oz	NONE
1	SODIUM NITRATE	OXIDIZER	UN-1500	D-003	1 lb	OXIDIZER
1	STRONTIUM NITRATE	OXIDIZER	UN-1507	D-003	9 lbs	OXIDIZER
1	ZIRCONYL NITRATE	OXIDIZER	UN-2728	D-003	9 oz	NONE

PLACARDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)	EMERGENCY RESPONSE INFORMATION
T/S/D FACILITY _____	CONTACT Name _____
E.P.A. ID Code No. _____	Phone _____
Address _____	National Response Center 1-800-424-8802 in D. C. 426-2675
Destination _____	

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature _____ Date _____

TRANSPORTER #1 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature _____ Date _____

T/S/D F COPY 83-0000134

HAZARDOUS WASTE MANIFEST

THIS MEMORANDUM

is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

MANIFEST DOCUMENT NUMBER

3293 - 1

TO:	FROM:
T/S/D FACILITY	Generator RAY CALLAWAY/C.D. HANSEN
E.P.A. ID Code No. WA 789-000-8967	E.P.A. ID Code No. WA 789-000-8967
Address CERICAL TRENCH	Address BLDG. 1166/1100 AREA
Destination HANFORD LANDFILL	Origin MATERIALS WAREHOUSE
Phone	Phone 376-7110/376-7494

No. Shipping Units	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Motor Vehicle D.O.T. No.	EPA Haz Waste No.	WEIGHT	LABELS REQUIRED (or Exemption No.)
1	DEXTROSE ANALYDROUS	NONE	NONE	NONE	3 lbs	NONE
1	POTASSIUM DICHLORIDE	NONE	NONE	NONE	8 lbs	NONE
24	SODIUM CHLORIDE	NONE	NONE	NONE	125 lbs	NONE
30	SODIUM SILICA	NONE	NONE	NONE	30 lbs	NONE
23	CALCIUM CARBONATE	NONE	NONE	NONE	30 lbs	NONE
48	FERRIC OXIDE	NONE	NONE	NONE	48 lbs	NONE

PLACARDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED, subject to the classifications and lawful tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY _____

E.P.A. ID Code No. _____

Address _____

Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name _____

Phone _____

National Response Center 1-800-424-8802 in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature _____ Date _____

TRANSPORTER #1 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature _____ Date _____

T/S/D F COPY 93-0000135

HAZARDOUS WASTE MANIFEST

THIS MEMORANDUM

is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

MANIFEST DOCUMENT NUMBER

3293-1

T/S/D FACILITY	FROM: Generator RAY CALLAWAY/C.D. HANSEN
E.P.A. ID Code No. WA 789-000-8967	E.P.A. ID Code No. WA-789-000-8967
Address CHEMICAL TRENCH	Address BLDG. 1166/1100 AREA
Destination HANFORD LANDFILL	Origin MATERIALS WAREHOUSE
Phone	Phone 376-7110/376-7494

No. Shipping Units	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Hazardous Waste ID No.	EPA Hazardous Waste No.	WEIGHT	LABELS REQUIRED (or Exemption No.)
1	18 ALUMINUM NITRATE	OXIDIZER	UN-1438	D-003	11 lbs	OXIDIZER
1	19 CUPRIC NITRATE	OXIDIZER	NA-1479	D-003	4 lbs	OXIDIZER
1	18 MAGNESIUM NITRATE	OXIDIZER	UN-1474	D-003	13 lbs	OXIDIZER
1	3 ALUMINUM OXIDE	ORM-A	NA-1693	NONE	3 lbs	NONE
1	21 AMMONIUM CARBONATE	ORM-A	NA-9084	NONE	21 lbs	NONE
1	1 POTASSIUM HYDROGEN SULFATE	ORM-B	UN-2509	NONE	1 lb	NONE

PLACARDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$_____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY _____

E.P.A. ID Code No. _____

Address _____

Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name _____

Phone _____

National Response Center 1-800-424-8802

in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature _____ Date 11-21-77

TRANSPORTER #1 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature _____ Date _____

T/S/D F COPY 66-0000136

HAZARDOUS WASTE MANIFEST

THIS MEMORANDUM

is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

MANIFEST DOCUMENT NUMBER

3273-1

T/S/D FACILITY	FROM: Generator BAY CALLAWAY/C.D. HANSEN
E.P.A. ID Code No. WA 789-000-8967	E.P.A. ID Code No. WA 789-000-8967
Address CHEMICAL TRENCH	Address BLDG. 1166/1100 AREA
Destination HANFORD LANDFILL	Origin MATERIALS WAREHOUSE
Phone	Phone 376-7110/376-7494

Containers	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Shipper's D.O.T. No.	EPA Hazardous Waste No.	WEIGHT	LABELS REQUIRED (or Exemption No.)
1	POTASSIUM PHOSPHATE	NONE	NONE	NONE	5 lbs	NONE
1	POTASSIUM PHOSPHATE	NONE	NONE	NONE	2 lbs	NONE
1	SODIUM ACETATE	NONE	NONE	NONE	3 lbs	NONE
1	SODIUM BICARBONATE	NONE	NONE	NONE	9 lbs	NONE
1	[illegible] OXIDE	[illegible]	[illegible]	[illegible]	[illegible] lbs	[illegible]

PLACARDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

_____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY _____

E.P.A. ID Code No. _____

Address _____

Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name _____

Phone _____

National Response Center 1-800-424-8802

in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature _____ Date _____

TRANSPORTER #1 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature _____ Date _____

T/S/D F COPY 88-0000137

Internal Letter

Rockwell International

Date: September 21, 1983

No. 65950-83-1475

TO: (Name, Organization, Internal Address)
R. E. Callaway
Material
1166/1100 Area

FROM: (Name, Organization, Internal Address, Phone)
H. C. Boynton (3-3516)
Solid Waste Processing & Disposal Unit
2750E/A104/200E

Subject: Approved Disposal Request 4.9 (Rockwell)

The disposal methods for chemical reagents listed on Disposal Request 4-9 is prescribed on the attached Disposal Request Analysis. Instructions based upon chemical compatibilities is provided should reagents be combined in a common overpack. The packaging of unopened chemical containers does not require laboratory packing in metal drums, which is the method used only for unsealed containers.

All packaging, labeling, and marking of waste reagents shall be completed in accordance with Department of Transportation (DOT) regulations (CFR 171-179). A Hazardous Waste Manifest is required to accompany all waste shipments in accordance with 40 CFR 263.

Arrangements for transporting waste materials to the 2727-S storage facility (for forwarding to offsite disposal) and transporting onsite disposal packages directly to the Hanford Non-Radioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented upon compliance with the stated disposal request instructions and Hazardous Waste Manifest requirements.

Should you require further assistance regarding the disposition of wastes listed on Disposal Request 4-9, please contact the following Rockwell personnel.

H. C. Boynton (3-3516)	Solid Waste Processing & Disposal
G. C. Cox (3-3679)	Industrial Hygiene & Safety (2727-S Coordinator)
D. L. McCall (6-1651)	Material
A. D. Poor (6-1420)	Transportation

H. C. Boynton, Engineer
Solid Waste Processing & Disposal Unit

HC3/cls

Attachments

cc w/out attachments: J. F. Albaugh
G. R. Cox
D. R. Groth
D. L. McCall
A. D. Poor

93- 0000138

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

4-9

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT 202-S/200 West Rockwell

A. Generator's Name: R.E. CALLAWAY Phone: 6-0906 Address: 1100/1166 Company: RHO

B. Custodian's Name: R.E. CALLAWAY Phone: 6-7110 Address: 1100/1166 Company: RHO

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
SEE ATTACHED LIST							

D. Have hazardous waste labels been affixed to containers? YES Not required

E. Have efforts been made to recycle (e.g., excess) waste? YES

F. Has waste been treated in any manner? NO If so, how?

G. Location: 1166 BLGD, 1100 AREA

H. "I certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: NOT APPLICABLE

Signature: R.E. Callaway Date: 6/8/83

APPROVAL

A. Approved for disposal by Name: R.C. Sayler Phone: 3-3516 Address: 275-E Co.: RHO

Date: 9-26-83 Signature: [illegible]

B. Disposal Requirements (specify): Per Sayler To Terrell Letter Sept. 1983 Re Remarks To RE Callaway including Disposal analysis

C. Disposal Location: ✓ Chemical Trench, Asbestos Trench,

(check one) 212-P (Storage), 2727-S Other

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: Phone: Address: Company

B. Date Transported/Disposed:

C. Transporter(s) Signature:

85-0000139

BC-6700-174.1 (N-1-8)

DISPOSAL ANALYSIS 4-9 (ONSITE DISPOSAL)

Packaging and Waste Manifest information for those chemicals to be shipped to the Hanford Non-Radioactive Hazardous Waste Chemical Trench.

Hazard class and packaging compatibility:

DISPOSAL REQUEST NO.	SHIPPING NAME	EPA NO.	ID NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Flammability Liquid							
1.	Acetone	U002	UN1090	Flammable Liquid	7	Glass	1 pint
2.	Butyl alcohol	U031	NA1120	Flammable Liquid	31	Glass	1 pound
Combustible Liquid							
21.	Glycerine (alcohol n.o.s.)	NA	UN1997	None	23	Glass	1 pint
15.	Dextrose analydrous		Non-Hazardous		3	Plastic	1 pound
27.	Potassium dichloride		"		8	Plastic	1 pound
36.	Sodium chloride		"		24	Plastic	5 pounds
40.	Sodium silica		"		30	Plastic	1 pound

88- 0000140

DISPOSAL REQUEST NO.	SHIPPING NAME	EPA NO.	ID NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Corrosive Material Acids							
2.	Hydrofluoric acid	U134	UN1790	Corrosive	100	Plastic	1 pound
3.	Sulfamic acid (corrosive solid n.o.s.)	NA	UN1759	Corrosive	25	Plastic	100 grams
4.	Trichloroacetate (corrosive solid n.o.s.)	NA	UN1759	Corrosive	79	Plastic	1 pound
Corrosive Material Base							
23.	Lithium hydroxide (corrosive solid n.o.s.)	D002	UN1759	Corrosive	5	Plastic	1 pound
37.	Sodium hydroxide	D002	UN1223	Corrosive	18	Plastic	5 pounds
Oxidizers							
6.	Aluminum nitrate	D003	UN1438	Oxidizer	11	Plastic	1 pound
14.	Capric nitrate	D003	NA1479	Oxidizer	16	Glass	1/4 pound
24.	Magnesium nitrate	D003	UN1474	Oxidizer	18	Plastic	1 pound
25.	Magnesium oxide	D003	UN1476	Oxidizer	11	5-Plastic 6-Glass	1 pound 1 pound
28.	Potassium nitrate	D002	UN1486	Oxidizer	18	Plastic	1 pound
29.	Potassium permanganate	D002	UN1490	Oxidizer	79	Plastic	1 pound
33.	Silver nitrate	D002	UN1493	Oxidizer	3	Plastic	4 ounces

DISPOSAL REQUEST NO.	SHIPPING NAME	EPA NO.	ID NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
38.	Sodium nitrate	D003	UN1500	Oxidizer	1	Plastic	1 pound
42.	Strontium nitrate	D003	UN1507	Oxidizer	9	Plastic	1 pound
44.	Zirconyl nitrate	D003	UN2728	Oxidizer	9	Glass	1 ounce
12.	Calcium carbonate		NON-HAZARDOUS		23	Plastic	1 pound
17.	Ferric oxide		"		48	Plastic	1 pound
30.	Potassium phosphate		"		5	Plastic	1 pound
31.	Potassium phosphate		"		2	Glass	1 pound
34.	Sodium acetate		"		3	Plastic	1 pound
35.	Sodium bicarbonate		"		9	Plastic	1 pound
ORM-A							
7.	Aluminum oxide (ORMA n.o.s.)	NA	NA1693	None	8	Plastic	1 pound
8.	Ammonium carbonate	NA	NA9084	None	21	Plastic	1 pound
ORM-B							
26.	Potassium hydrogen sulfate	NA	UN2509	None	1	Plastic	1 pound
ORM-E							
9.	Ammonium chloride	NA	NA9085	None	2	Glass	1 pound
39.	Sodium phosphate	NA	NA9147	None	4	Plastic	1 pound

DISPOSAL ANALYSIS 4-9 (OFFSITE DISPOSAL)

Packaging and Waste Manifest information for those chemicals to be shipped to an offsite hazardous waste disposal facility via the 2727-S storage facility.

Hazard class and packaging compatibility:

DISPOSAL REQUEST NO.	SHIPPING NAME	EPA NO.	ID NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Flammable Liquid							
32.	Pyrodine	U196	UN1282	Flammable Liquid	19	Glass	1 pint
43.	Xylene	U239	UN1307	Flammable Liquid	4	Glass	8 pints
Corrosive Material							
11.	Barium nitrate	D005	NA1446	Oxidizer	5	Glass	1 pound
13.	Chromium nitrate (nitrate n.o.s.)	D007	NA1477	Oxidizer	12	Plastic	1 pound
ORM-A							
16.	Dimethylaminobenzal-dehydroxide (ORM-A n.o.s.)	NA	NA1693	None	3	Plastic	100 grams
18	Formaldehyde	U122	NA1198	None	27	Plastic	1 pint
19.	Formaldehyde	U122	NA1198	None	5	Plastic	8 pints
22.	Hydroxylamine (ORM-A n.o.s.)	NA	NA1693	None	1	Plastic	1 pound

00000143

4-9

200/W 202S

DON'T SAY IT --- *Write It!*

DATE 4-27-83

TO GARY Cox (3-3679)

FROM R.E. CALLAWAY

REF: ATTACHED LIST OF CHEMICALS.

PLACE REVIEW ATTACHED LIST AND CIRCEL THE CHEMICALS THAT MAY BE BURIED ON SITE.

R E Callaway
Manager Disposal

Please note I have circled the chemicals which must go offsite for disposal and specified that the heavy metal concentration for Barium, chromium and silver must be below certain levels for burial onsite.

Call if you have any questions.

"TO MAKE LIFE LAST, PUT SAFETY FIRST"

Gary ~~[illegible]~~ 32202 A-9
COX

	7	ea	51-0050-030	Acetone (Chemwest) O.K. UN1090	1.69	CL.	1 Pt	FLAMMABLE LI
2 100	98	ea	51-0100-260	Hydrofluoric acid (Chemwest) O.K. UN1790	3.15	PL.	1LB.	CORROSIVE
3	25	ea	51-0100-620	Sulfamic acid (chemwest) O.K. CORROSIVE SOLID	4.47	PL.	100 GR.	CORROSIVE
4	79	ea	51-0100-730	Trichloroacetate (Argent) O.K. CORROSIVE SOLIDS UN1759	8.87	PL.	1LB.	CORROSIVE
5	31	ea	51-0225-300	Butyl alchohol (Chemwest) O.K. NA1120	3.08	CL.	1LB.	FLAMMABLE LI
6	11	ea	51-0330-580	Aluminum nitrate (Chemwest) O.K. UN1438	4.17	PL.	1LB.	OXIDIZER
7 8	13	ea	51-0330-630	Aluminum oxide (Chemwest) O.K.	3.69	PL.	1LB.	~~ORM-E~~
8	21	ea	51-0370-160	Ammonium Carbonate (Chemwest) O.K. NA9084	5.10	PL.	1LB.	ORM-A
9 2	5	ea	51-0370-170	Ammonium Chloride (Argent) O.K. NA9085	4.57	GL	1LB.	ORM-E
10	10	ea	51-0525-350	Barium Nitrate (Chemwest) O.K. * UN1446	4.15	[redacted].	[redacted].	OXIDIZER
11 S	5	ea	51-0525-350	Barium Nitrate (Argent) O.K. * UN1446	4.15	GL.	1LB.	OXIDIZER
12	23	ea	51-1050-150	Calcium carbonate (Chemwest) O.K.	1.98	PL.	1LB.	NON-HAZARDOU
13	12	ea	51-1325-150	Chromium Nitrate (Chemwest) O.K. ** ATTACHE MOS NA1477	10.40	PL.	1LB.	OXIDIZER
	16	ea	51-1450-275	Cupric Nitrate (Argent) O.K. UN1479	4.54	GL.	1/4 LB.	OXIDIZER
15	3	ea	51-1675-375	Dextrose Anydrous (Chemwest) O.K.	2.09	PL.	1LB.	NON-HAZARDOU
16	3	ea	51-1615-100	Dimethylaminobenzaldehydroxide (Chemwest) No-offsite EHW	11.19	PL.	100 GR.	ORM-E
~~[illegible]~~	~~[illegible]~~	~~ea~~	~~[illegible]~~	~~benchmark)~~	~~[illegible]~~			
17	48	ea	51-2325-180	Ferric Oxide (Chemwest) O.K.	2.80	PL.	1LB.	~~[illegible]~~
18	27	ea	51-2400-360	Formaldehyde (Chemwest) No-EHW	1.75	PL.	1 Pt.	~~[illegible]~~
19	5	ea	51-2400-365	Formaldehyde (Chemwest) No-EHW	2.02	PL.	3 Pt.	~~[illegible]~~
20	13	ea	51-2950-150	Glycerine Water (Chemwest) O.K.	16.58			~~[illegible]~~
21	23	ea	51-2850-175	Glycerine (Argent) O.K.	3.48	GL.	1 Pt.	~~[illegible]~~
22	1	ea	51-3500-125	Hydroxlamine (Chemwest) O.K.	11.95	PL	1LB	~~[illegible]~~

PL - PLASTIC
GL - GLASS

* Barium concentration must be > 10,000 mg
** Chromium concentration must be > 500 mg/L

93-0000145

5	ea	51-5025-150	Lithium Hydroxide (Chemwest) O.K.	7.30	PL.	1LB.	CORROSIVE
18	ea	51-5325-150	Magnesium nitrate (Argent) O.K.	4.49	PL.	1LB.	OXIDIZER
12	ea	51-5325-160	Magnesium Oxide (Argent) O.K.	15.31	5PL 6GL.	1LB. 1LB.	OXIDIZER
1	ea	51-7000-225	Potassium Bisulfate (Chemwest) O.K.	11.14	PL	1LB.	~~CRME~~
8	ea	51-7000-525	Potassium Dichloride (Chemwest) O.K.	6.09	PL	1LB.	~~CRME~~
18	ea	51-7000-750	Potassium Nitrate (Argent) O.K.	2.56	PL.	1LB.	OXIDIZER
82	ea	51-7000-770	Potassium Permanganate (Chemwest) O.K.	3.88	PL	1LB.	OXIDIZER
5	ea	51-7000-780	Potassium Phospate (Chemwest) O.K.	4.95	PL.	1LB.	~~CRME~~
2	ea	51-7000-790	Potassium Phosphate (Argent) O.K.	6.07	GL.	1LB.	~~CRME~~
19	ea	51-7075-125	Pyridine (Argent) No-EHW	11.59	GL.	1Pt	FLAMMABLE
3	ea	51-8090-180	Silver Nitrate (Chemwest) O.K.*	39.29	PL.	4oz.	OXIDIZER
3	ea	51-8175-100	Sodium acetate (Chemwest) O.K.	5.00	PL.	1LB.	~~CRME~~
11	ea	51-8175-115	Sodium Bicarbonate (Chemwest) O.K.	3.14	PL	1LB.	NON-HAZARD
32	ea	51-8175-160	Sodium Chloride (Chemwest) O.K.	5.21	PL.	5LB.	NON-HAZARD
18	ea	51-8175-200	Sodium Hydroxide (Chemwest) O.K.	8.01	PL.	5LB.	CORROSIVE
3	ea	51-8175-255	Sodium Nitrite (Chemwest) O.K.	8.92	PL.	1LB	OXIDIZER
6	ea	51-8175-290	Sodium Phosphate (Argent) O.K.	4.41	PL.	1LB.	CRM-E
30	ea	51-8175-310	Sodium Silica (Chemwest) O.K.	6.72	PL.	1LB.	NON-HAZARD
30	ea	51-8175-400	Sodium Thiosulfate (Chemwest) O.K.	3.97			~~CRME~~
9	ea	51-8350-175	Strontium Nitrate (Chemwest) O.K.	5.58	PL.	1LB	OXIDIZER
10	ea	51-9600-150	Xylene (Chemwest) No-EHW	5.83	GL	8Pt	FLAMMABLE L
9	ea	51-9920-180	Zirconyl nitrate (Argent) O.K.	2.03	GL	1oz.	OXIDIZER

* Silver concentration must be > 500 mg/L concentration

	EPA #		No.	Cont	WT.	Haz cl	Id	Label	other
1.	U002	Acetone	7	Gl.	1 PT	Fl liq	UN1090	Fl liq	DW
	U134	Hydrofluoric acid	100	PL	1 LB.	Corrosive	UN ~~1790~~ 1790	Cor.	DW
3.	NA	Sulfamic acid	25	PL	100g	Corrosive	UN1759	Cor	Corrosive
4.	NA	Trichloroacetate	79	PL	1 LB	"	"	"	"
5.	U031	Butyl alcohol	31	GL	1 LB	Fl. liq.	NA1120	Fl. liq	DW
6.	NA	Aluminum nitrate	11	PL	1 LB	Ox	UN1438	Ox	
		~~Haz Solid NOS~~ ~~Poisons solid NOS~~ ORMA NO.3.				~~ORM-E NA9189 None~~			ORMA-NA 1
7	* NA	Aluminum oxide	8	PL	1 LB	~~Poisons~~	~~UN2811~~	~~Poison~~	
8.	NA	Ammonium Carbonate	21	PL	1 LB	ORM-A	NA 9094	None	
9.	NA	Ammonium Chloride	2	GL	1 LB	ORM-E	NA 9085	None	
10	D005 EHW	Barium Nitrate	5	GL	1 LB	Ox	NA 1446	Ox	
12	NA	Calcium carbonate	23	PL	1 LB	~~Ox~~	~~NA 1452~~	~~Ox~~	Not Haz
13	D007 EHW	Nitrate NO.3. Chromium Nitrate	12	PL	1 LB	Ox	NA1477	Ox	
	NA	Cupric Nitrate.	16	GL	1 LB	Ox	NA 1479	Ox	
15	NA	Dextrose Anhydrous	3	PL	1 LB	— Non-Haz		Oxidizer	
		~~Haz Solid. U003~~ ~~Poisons solid NOS~~ ORMA NO.3				ORMA	NA1693	None	
16	NA EHW	Dimethylaminobenzaldehydroxide	3	PL	100 cm.	~~ORME~~ ~~Poisons~~	~~NA1101~~ ~~UN2811~~	~~None~~ ~~Poison~~	
17	*	Ferric Oxide	47	PL	1 LB	— not Haz			
18	EHW U122	Formaldehyde	27	PL	1 PT	ORM-A	UN1198	None	U
19	EHW	"	3	PL	2 PT	"	"	"	U
20		—	0						
21		Alcohol NO.3 Glycerine	23	GL	1 PT	Combly liq	UN1787	None	
22	EHW	~~Hazardous waste NOS~~ Hydroxylamine ORMA NO.3	1	PL	1 LB.	~~ORME~~ ~~UN9189~~ ~~None~~ ORMA	NA1693	None	

9

		119	264	245	125	182	[illegible]	510
	1. 118-119	x						
	2 264 510 continuous not to exceed 25 lbs x			Page 511 b				
lidnos	3 244 245b			x				
	4 "			x				
	5. 118-125				x			
	6 153-182 a					x		
	7 ~~244-85~~ N ~~1300~~ 505 510						x	
	8 505 510							x
	9 N - 510							x
	10 193 182					x		
	12							
	13 153-182					x		
	14 153 182 a					x		
	15							
~~22~~	16 ~~244-365~~ N 1300 505 510						x	
	17							
12	18 505 510							x
22	19 [illegible]							x
	21 118 - N							
	22 ~~N-1300~~ 505 510						x	

	No.	Cat	WT	Haz Cl	ID	Label	other
D002	23. Lithium Hydroxide	5	PL	ILB	Corrosive	UN1[illegible]	Corrosive	Corrosive
D003	24. Magnesium Nitrate	18	PL	ILB	ox	UN1474	ox	
D003	25. Magnesium Oxide	11	SPL GL	ILB ILB	ox	UN1476	ox	
NA	26. Potassium Bisulfate (Potassium hydrogen sulfate)	1	PL	ILB	ORMB	UN2509	None	
NA	27 Potassium Dichloride	7	PL	ILB		—		non
D002	28. Potassium Nitrate	17	PL	ILB	ox	UN1486	ox	
173.54 144 D002	29. Potassium Permanganate	79	PL	ILB	ox	UN1490	ox	173.53 #2511
NA	30 Potassium Phosphate	5	PL	ILB				Non Haz
NL	31 Potassium Phosphate	2	GL	ILB				Non Haz
EHW U196	32 Pyridine	19	GL	DPT	Fl liq	UN1282	Fl liq	Fl liq
D002	33 Silver Nitrate	3	PL	4oz	ox	UN1493	ox	
NL	34. Sodium acetate	3	PL	ILB				Non Haz
	35. Sodium Bicarbonate	9	PL	ILB		non Haz		
	36. Sodium Chloride	24	PL	SLB		non-Haz		
D002	37 Sodium Hydroxide	18	PL	SLB	cor	UN1823	cor	#2511
D003	38. Sodium Nitrite	1	PL	ILB	ox	UN1500	ox	
	39. Sodium Phosphate	4	PL	ILB	ORME	NA9147	None	
NA	40 Sodium silica	30	PL	ILB		non Haz		
	~~41 Sodium Thiosulfate~~							
	42 Strontium Nitrate	9	PL	ILB	ox	UN1507	ox	
EHW U239	43 Xylene	9	GL	8oz	Fl liq.	UN1307	Fl liq.	Fl liq
	44 Zirconyl nitrate	1	GL	1oz	ox	UN2728	ox	

12B ~~Fiberboard~~ box
⇒ in 17H as many as could fit

FP
173.119 B.H.

93-0000149

1-9		119	244	245	125	182	510	154	800	194	234
23	244-245b.			X							
24	153-182 a outside container no to exceed 25 lbs. of 21.301.					X					
25	153-154							X	17H OK		
26	505-800 inside package no more than 5 lbs outside 25 lbs.								X		
27											
28	153-182 a					X					
29	154-194 17H OK									X	
30											
31											
32	118-119	X									
33	153-182 a					X					
34											
35											
36											
37	244-245b.			X							
38	153-234 a see 154										X
39	N-510 see 505						X				
40											
42	153-182 a					X					
43	118-119 X limiting Quantity 118										
44	153-182 a					X					

Disposal Analysis 4-7 (On-site Disposal)

Packaging and Waste Manifest information for those chemicals to be shipped to the Hanford Non-Radioactive Hazardous Waste Chemical Trench.

Hazard Class ~~[illegible]~~ Packaging compatability:

Disposal Request#	Shipping Name	EPA#	ID#	Label	No# Containers	Container type.	Quantity per container
Flammable Liquid							
1.	Acetone	U002	UN1090	Flammable liquid	7	Glass	1 pt.
5.	Butyl alcohol	U031	NA1120	Flammable liquid	31	Glass	1 lb.
Combustable Liquid							
21.	Glycerine (Alcohol n.o.s.)	NA	UN1987	None	23	Glass	1 pt.
15	Dextrose Anhydrous	Non-Hazardous			3	Plastic	1 lb.
27.	Potassium Dichloride	"	"		8	Plastic	1 lb.
36.	Sodium Chloride	"	"		24	Plastic	5 lb.
40.	Sodium silica	"	"		30	Plastic	1 lb.
Corrosive Material Acids							
2.	Hydrofluoric acid	U134	UN1790	Corrosive	100	Plastic	1 lb.
3.	Sulfamic acid (Corrosive Solid n.o.s.)	NA	UN1759	Corrosive	25	Plastic	100g
4.	Trichloroacetate (Corrosive Solid n.o.s.)	NA	UN1759	Corrosive	79	Plastic	1 lb.
Corrosive Material Base							
23.	Lithium Hydroxide (Corrosive Solid n.o.s.)	D002	UN1759	Corrosive	5	Plastic	1 lb.
	Sodium Hydroxide		UN1823	Corrosive	18	Plastic	"

0000151

83-0000152

Disposal Request #	Shipping Name	EM #	ID #	Label	No. # Containers	Container Type	Quantity per container
Oxidizer							
6.	Aluminum nitrate	D003	UN1438	Oxidizer	11	Plastic	1 lb.
14.	Cupric Nitrate	D003	UN1479	Oxidizer	16	Glass	1/4 lb.
24.	Magnesium Nitrate	D003	UN1474	Oxidizer	18	Plastic	1 lb.
25.	Magnesium Oxide	D003	UN1476	Oxidizer	11	5 Plastic 6 Glass	1 lb. 1 lb.
28.	Potassium Nitrate	D002	UN1486	Oxidizer	18	Plastic	1 lb.
29	Potassium Permanganate	D002	UN1490	Oxidizer	79	Plastic	1 lb.
33.	Silver Nitrate	D002	UN1493	Oxidizer	3	Plastic	1 oz.
38.	Sodium Nitrate	D003	UN1500	Oxidizer	1	Plastic	1 lb.
42.	Strontium Nitrate	D003	UN1507	Oxidizer	7	Plastic	1 lb.
44.	Zirconyl Nitrate	D003	UN2728	Oxidizer	9	Glass	1 oz.
12.	Calcium Carbonate	Non-Hazardous			23	Plastic	1 lb.
17.	Ferric Oxide	"	"		47	Plastic	1 lb.
30.	Potassium Phosphate	"	"		5	Plastic	1 lb.
31.	Potassium Phosphate	"	"		2	Glass	1 lb.
34.	Sodium acetate	"	"		3	Plastic	1 lb.
35.	Sodium Bicarbonate	"	"		9	Plastic	1 lb.

Disposal Request #	Shipping Name	EM #	ID #	Label	No. # containers	Container Type	Quantity per container
ORM-A							
7.	Aluminum oxide (ORMA n.o.s.)	U.A.	NA1693	None	8	Plastic	1 lb.
8.	Ammonium Carbonate	N.A.	NA9084	None	21	Plastic	1 lb.
ORM-B							
26.	Potassium hydrogen Sulfate	U.A.	UN2509	None	1	Plastic	1 lb.
ORM-E							
9.	Ammonium Chloride	N.A.	NA9085	None	2	Glass	1 lb.
39.	Sodium Phosphate	N.A.	NA9147	None	4	Plastic	1 lb.

SS-0000153

Disposal Analysis 4-9 (Off-site Disposal)

Packaging and waste manifest information for those chemicals to be shipped to an off site Hazardous Waste disposal facility via the 2727-S Storage Facility.

Hazard class and Packaging compatability:

Disposal Request #	Shipping Name	EPA #	ID #	Label	No. # containers	Container Type	Quantity per container
Flammable Liquid							
32.	Pyridine	U196	UN1282	Flammable liquid	19	Glass	1 pt.
43.	Xylene	U239	UN1307	Flammable liquid	4	Glass	8 pt.
Corrosive Material							
11.	Barium Nitrate	D005	NA 1446	Oxidizer	5	Glass	1 lb.
13.	Chromium Nitrate (Nitrate Nos.)	D007	NA 1477	Oxidizer	12	Plastic	1 lb.
ORM-A							
16.	Dimethylaminobenzaldehydroxide (ORM-A n.o.s.)	NA	NA 1693	None	3	Plastic	100 gm.
17.	Formaldehyde	U122	NA 1198	None	27	Plastic	1 pt.
19.	Formaldehyde	U122	NA 1198	None	5	Plastic	8 pt.
22.	Hydroxylamine (ORM-A n.o.s.)	NA	NA 1693	None	1	Plastic	1 lb.

Fl. liq

on

1, 5

58

32, 43

EHW

19+32 = 51 pt

Fl liq 1, 5 70 + 31 = 38 pt

Combliq 21 23 = 23 pt

100 + (25 [illegible]) + 79 + 5 + 90 = 274 16

Conhact

2, 3, 4, 23

37,

Base

acid

ox

6, 14, 24, 25

28, 29, 33, 38

42, 44

11, 13 EHW 5 + 12 = 17 16

ORM-A

7, 8

ORME

9, 39

ORMB

26

16, 18, 19

22

EHW 5 + 27 + 20 = 20 pts

combustible liq

21

N.A

12 15 17 27

30 31 34 35

36, 40

Missing No

10 20

41

reducers

15 27 36

40

ox

12, 17, 30, 31

34, 35

16.

Internal Letter

Rockwell International

Date September 21, 1983

No. 65950-83-1475

TO: (Name, Organization, Internal Address)
R. E. Callaway
Material
1166/1100 Area

FROM: (Name, Organization, Internal Address, Phone)
H. C. Boynton (3-3516)
Solid Waste Processing & Disposal Unit
2750E/A104/200E

Subject: Approved Disposal Request 4.9 (Rockwell)

educated Gene required on volume 5-3-84 [illegible]

The disposal methods for chemical reagents listed on Disposal Request 4-9 is prescribed on the attached Disposal Request Analysis. Instructions based upon chemical compatibilities is provided should reagents be combined in a common overpack. The packaging of unopened chemical containers does not require laboratory packing in metal drums, which is the method used only for unsealed containers.

All packaging, labeling, and marking of waste reagents shall be completed in accordance with Department of Transportation (DOT) regulations (CFR 171-179). A Hazardous Waste Manifest is required to accompany all waste shipments in accordance with 40 CFR 263.

Arrangements for transporting waste materials to the 2727-S storage facility (for forwarding to offsite disposal) and transporting onsite disposal packages directly to the Hanford Non-Radioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented upon compliance with the stated disposal request instructions and Hazardous Waste Manifest requirements.

Should you require further assistance regarding the disposition of wastes listed on Disposal Request 4-9, please contact the following Rockwell personnel.

H. C. Boynton (3-3516)	Solid Waste Processing & Disposal
G. C. Cox (3-3679)	Industrial Hygiene & Safety (2727-S Coordinator)
D. L. McCall (6-1651)	Material
A. D. Poor (6-1420)	Transportation

H. C. Boynton, Engineer
Solid Waste Processing & Disposal Unit

10:30 A.M 5/3/84.
Gene,
Dennis Poor has the original. This will work for now, just transfer the info to the original at the end of the day.
Gary R. Cox

HCB/cls

Attachments

cc w/out attachments: J. E. Albaugh
G. R. Cox
D. R. Groth ORY
D. L. McCall
A. D. Poor

84-000357

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

4-9

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT 202-S/200 West Rockwell

A. Generator's Name: R.E. CALLAWAY Phone: 6-0906 Address: 1100/1166 Company: RHO

B. Custodian's Name: R.E. CALLAWAY Phone: 6-7110 Address: 1100/1166 Company: RHO

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. SEE ATTACHED LIST							
2.							
3.							
4.							
5.							

D. Have appropriate labels been affixed to containers? YES Not required

E. Have efforts been made to recycle (e.g., excess) waste? YES

F. Has waste been treated in any manner? NO If so, how?

G. Storage Location: 1166 BLGD. 1100 AREA

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: NOT APPLICABLE

Generator's Signature: R.E. Callaway Date: 6/8/83

APPROVAL

I. Approved for disposal by Name: [illegible] Phone: 3-3516 Address: 275-E Co.: RHO

Date: 9-20-83 Signature: [illegible]

J. Packaging Requirements (specify): Re See To Tn Transmittal Letter Sept 1985 RE Brooks To RE Callaway re Hazardous Disposal analysis

K. Disposal Location: — Chemical Trench, Asbestos Trench,

(check one) 212-P (Storage), 2727-S Other

III. TRANSPORTATION/DISPOSAL

L. Transporter(s) Name: J A Fee Phone: 3-6178 Address: 1171 Company: RHO

M. Date Transported/Disposed: 5-3-1984 (1) ET-Fuhrer

N. Transporter(s) Signature: Jeff A Fee

84-000356

DISPOSAL ANALYSIS 4-9 (ONSITE DISPOSAL)

Packaging and Waste Manifest information for those chemicals to be shipped to the Hanford Non-Radioactive Hazardous Waste Chemical Trench.

Hazard class and packaging compatibility:

DISPOSAL REQUEST NO.	SHIPPING NAME	EPA NO.	ID NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Flammability Liquid							
1.	Acetone	U002	UN1090	Flammable Liquid	7	Glass	1 pint
2.	Butyl alcohol	U031	NA1120	Flammable Liquid	31	Glass	1 pound
Combustible Liquid							
21.	Glycerine (alcohol n.o.s.)	NA	UN1997	None	23	Glass	1 pint
15.	Dextrose analydrous		Non-Hazardous		3	Plastic	1 pound
27.	Potassium dichloride		"		8	Plastic	1 pound
36.	Sodium chloride		"		24	Plastic	5 pounds
40.	Sodium silica		"		30	Plastic	1 pound

84-000359

DISPOSAL REQUEST NO.	SHIPPING NAME	EPA NO.	ID NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
38.	Sodium nitrate	D003	UN1500	Oxidizer	1	Plastic	1 pound
42.	Strontium nitrate	D003	UN1507	Oxidizer	9	Plastic	1 pound
44.	Zirconyl nitrate	D003	UN2728	Oxidizer	9	Glass	1 ounce
12.	Calcium carbonate		NON-HAZARDOUS		23	Plastic	1 pound
17.	Ferric oxide		"		48	Plastic	1 pound
30.	Potassium phosphate		"		5	Plastic	1 pound
31.	Potassium phosphate		"		2	Glass	1 pound
34.	Sodium acetate		"		3	Plastic	1 pound
35.	Sodium bicarbonate		"		9	Plastic	1 pound
ORM-A							
7.	Aluminum oxide (ORMA n.o.s.)	NA	NA1693	None	8	Plastic	1 pound
8.	Ammonium carbonate	NA	NA9084	None	21	Plastic	1 pound
ORM-B							
26.	Potassium hydrogen sulfate	NA	UN2509	None	1	Plastic	1 pound
ORM-E							
9.	Ammonium chloride	NA	NA9085	None	2	Glass	1 pound
39.	Sodium phosphate	NA	NA9147	None	4	Plastic	1 pound
40.	Penn salt Cleaner A-28	NA	None	None	19	Fiberboard drum	325 lbs/drum
41.	Empty drum	NA	None	None	1	55 gal. drum	Empty

SW- 000260

DISPOSAL REQUEST NO.	SHIPPING NAME	EPA NO.	ID NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Corrosive Material Acids							
2.	Hydrofluoric acid	U134	UN1790	Corrosive	100	Plastic	1 pound
3.	Sulfamic acid (corrosive solid n.o.s.)	NA	UN1759	Corrosive	25	Plastic	100 grams
4.	Trichloroacetate (corrosive solid n.o.s.)	NA	UN1759	Corrosive	79	Plastic	1 pound
Corrosive Material Base							
23.	Lithium hydroxide (corrosive solid n.o.s.)	D002	UN1759	Corrosive	5	Plastic	1 pound
37.	Sodium hydroxide	D002	UN1223	Corrosive	18	Plastic	5 pounds
Oxidizers							
6.	Aluminum nitrate	D003	UN1438	Oxidizer	11	Plastic	1 pound
14.	Capric nitrate	D003	NA1479	Oxidizer	16	Glass	1/4 pound
24.	Magnesium nitrate	D003	UN1474	Oxidizer	18	Plastic	1 pound
25.	Magnesium oxide	D003	UN1476	Oxidizer	11	5-Plastic 6-Glass	1 pound 1 pound
28.	Potassium nitrate	D002	UN1486	Oxidizer	18	Plastic	1 pound
29.	Potassium permanganate	D002	UN1490	Oxidizer	79	Plastic	1 pound
33.	Silver nitrate	D002	UN1493	Oxidizer	3	Plastic	4 ounces

84-000361

DISPOSAL PACKET NUMBER

P84-040

Waste Description * designates EHW

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Flammable liquid	1	Carbon disulfide	P022	UN1131	Flammable liquid	1	Glass	200 ml
Flammable liquid	2	Butyl alcohol	D001	NA1120	"	1	Glass	200 ml
Flammable liquid	3	Flammable liquid N.O.S. (plexiglass cement)	D001	UN1993	"	1	Glass	100 ml
ORM-E	4	Hazardous Waste liquid N.O.S. (Hydroiodic Acid)	NA	NA9189	None	1	Glass	1 pt
Corrosive liquid	5	Corrosive liquid N.O.S. (Hypophosphorous Acid)	D002	UN1760	Corrosive	1	Glass	1 pt
	6	Flammable liquid N.O.S. (iodo benzene)	D001	UN1993		1	Glass	1 pt
Flammable liquid	7	*Pyridine	U196	UN1282	Flammable liquid	1	Glass	.5 pt
Combustable liquid	8	Combustible liquid N.O.S. (Isodecyl alcohol)	D001	NA1993	Combustible liquid	1	Glass	2/3 pt
Flammable liquid	9	*Toluene	U220	UN1294	Flammable liquid	1	Glass	2/3 pt
Flammable liquid	10	*Xylene	U239	UN1307	Flammable liquid	1	Glass	1 pt
	11	Normal Parafin Hydrocarbon	------ Non Regulated -----			1	Glass	1 pt
ORM-E	12	Hazardous Waste liquid N.O.S. (Diazald)	NA	NA9189	None	1	Glass	1/8 pt
Flammable liquid	13	Isopropanol (2-Propanol)		UN1219	Flammable liquid	8	Glass	1 pt
Flammable liquid	14	Butyl ether	D001	UN1148	Flammable liquid	1	Glass	.5 pt
Corrosive Mat.	15	Antimony pentachloride	D002	UN1730				
"	16	Bromine	D002	UN1744	Corrosive	2	Glass	1 L

S-41

Waste Description

* designates EIM

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Organic peroxide	17	Benzoyl peroxide flammable & Explosive & Toxic	D003	NA2080	Organic peroxide	1	Glass	450 gr
ORM-E	18	Hazardous Waste liquid N.O.S. (Phosphenyl chloride) (Dichlorophenyl phosphine)	NA	NA9189	None	2	Glass	.5 L
Flammable Solid	19	Flammable solid, poisonous N.O.S. (2,3, A20 bis 2 Methyl propionitrile)	NA	UN2936	Flammable solid poison	1	Glass	1 L
ORM-E	20	Hazardous Waste liquid N.O.S. (Tris hydroxy methyl) aminomethane (2-Amino-2 hydroxymethyl - 3 propanediol)	NA	NA9189	None	1	Glass	1 L
ORM-E	21	Hazardous Waste liquid N.O.S. (Dinoylnaphthalene sulfonic Acid)	NA	NA9189	None	1	Glass	1Kg
Flammable liquid	22	Alcohol N.O.S. (Amyl Alcohol)	D001	UN1987	Flammable liquid	1	Glass	1 L
Flammable liquid	23	Alcohol N.O.S (N-octylalcohol) (1-Octanol)	D001	UN1987	Flammable liquid	1	Glass	.5 Kg
Flammable liquid	24	*Toluene	U220	UN1294	Flammable liquid	1	Carton	300 g
ORM-E	25	Hazardous Waste liquid N.O.S. (Indene)	NA	NA9189	None	1	Glass	500 ml

Internal Letter

Rockwell International

Date: June 8, 1984

No. 65950-84-365

TO (Name, Organization, Internal Address)

M. H. Peterson
Chemical Processing Systems
Engineering Department
234-5 200-W

FROM (Name, Organization, Internal Address, Phone)

H. C. Boynton
Solid Waste Processing
& Disposal Unit
3-3516

Subject: APPROVED DISPOSAL REQUEST 5-41 (ROCKWELL)

Reference: Application, To Dispose of Nonradioactive Hazardous Waste
October 10, 1983, M. H. Peterson

The disposal method for chemical reagents listed in the referenced letter is prescribed on the attached Disposal Request Analysis. Chemicals listed within the same "Compatible Group" may be combined in a common overpack.

All packaging, labeling and marking of waste reagents shall be completed in accordance with the prescribed instructions which are based on Department of Transportation (DOT) regulations (49 CFR 171-179). A Hazardous Waste Manifest is required to accompany all waste shipments in accordance with 40 CFR 263.

Arrangements for transporting waste materials to the 2727-S storage facility (for forwarding to offsite disposal) and transporting onsite disposal packages directly to the Hanford Non-Radioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented upon compliance with the stated disposal request instructions and Hazardous Waste Manifest requirements.

Inspections by Rockwell of package content and integrity will be made as required to certify waste is disposed of in the manner designated in the burial analysis. Failure to package in the manner described in the burial analysis will result in suspension of disposal privileges for the offending facility.

Should you require further assistance regarding the disposition of wastes listed on Disposal Request 5-41 please contact the following Rockwell personnel:

H. C. Boynton (3-3516)	Solid Waste Processing & Disposal
G. R. Cox (3-3679)	Industrial Hygiene & Safety (2727-S Offsite Shipment Co-ordinator)

Rockwell International

D. L. McCall (6-1651) Material

A. D. Poor (6-1452) Transportation

H. C. Boynton, Engineer
Solid Waste Processing
& Disposal Unit

HCB:ra

Attachments

cc: G. R. Cox
D. R. Groth
D. L. McCall
A. D. Poor
L. H. Rodgers

Disposal Analysis 5-41

I. OFFSITE DISPOSAL

Waste reagents listed in this section are "Extremely Hazardous Waste" (EHW) and are to be properly packaged and manifested for shipment to an offsite disposal facility in accordance with state of Washington law (chapter 173-303 WAC). The Hanford generator has the responsibility for packaging shipment of EHW to the offsite staging facility 2727-S/200W. Offsite disposal shipments originating from 2727-S will be organized by Rockwell.

Chemicals in the same "Compatible Group" as listed on the disposal analysis may be placed in a common overpack.

Instruction for Packaging, Labeling, and Marking overpacked reagents for offsite disposal.

- Reagents must be placed in a 17-H metal drum.
- Inert packing material must be used to separate individual containers within the overpack, eg. Kitty Litter or Vermiculite.
- The DOT "Flammable Liquid" Hazard Class Label must be applied to the overpack.
- A weatherproof listing of the reagents must be applied to the overpack. eg. a protected cut out of the following information which includes shipping name and identification number may be fixed to the overpack.
- Mark on the overpack lid "This Side Up."
- Mark a package identification number which correlates with the Manifest information.

Disposal Analysis: 5-41

OFFSITE DISPOSAL

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY PER CONTAINER
Compatible Group follows:								
Flammable liquid	1	Carbon disulfide	P022	UN1131	Flammable liquid	1	Glass	200 ml
"	7	Pyridine	U196	UN1282	"	1	Glass	.5 pt
"	9	Toluene	U220	UN1294	"	1	Glass	2/3 pt
"	10	Xylene	U239	UN1307	"	1	Glass	1 pt
"	24	Toluene	U220	UN1294	"	1	Glass	400 g

Disposal Analysis 5-41

II. ONSITE DISPOSAL

Waste reagents listed on the following pages are to be properly packaged and Manifested for disposal at the Hanford Non-Radioactive Hazardous Waste Chemical Trench. Chemicals listed within the same "Compatible Group" may be combined in a common overpack.

Compatible Group A contains items: 2, 13, 22, 23, 11, 3, 6, 8, 18, 25, 12, and 20.

Compatible Group B contains items: 5, 15, 16, 4, and 21.

Items 17 and 19 should be packaged separately.

Instruction for Packaging, Labeling and Marking:

- The DOT Hazard class label(s) must be applied to each container.
- Each container must be labeled with the reagent shipping name and EPA identification number as listed on the Disposal Analysis chart.
- Mark an identification number on each container which correlates with the Hazardous Waste Manifest.
- Mark on the drum lid, "THIS SIDE UP."
- Mark the weight of the drum if weight exceeds 110 pounds.
- The reagent wastes listed on Disposal Request 5-41 may be overpacked in a steel drum. eg. 10-, 30-, or 55-gallon drum.
- Inert packing material must be used to separate individual containers within the overpack, eg. Kitty Litter or Vermiculite.
- A weatherproof listing of the contents must be applied to the overpacks.

Disposal Analysis 5-41

ONSITE DISPOSAL

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Compatible Group A								
Flammable liquid	2	Butyl alcohol	D001	NA1120	Flammable liquid	1	Glass	200 ml
"	13	Isopropanol (2-Propanol)	D001	UN1219	"	8	Glass	1 pt
"	14	Butyl ether	D001	UN1148	"	1	Glass	.5 pt
"	22	Alcohol N.O.S (Amyl Alcohol)	D001	UN1987	"	1	Glass	1 L.
"	23	Alcohol N.O.S. (n-octylalcohol) (1-octanol)	D001	UN1987	"	1	Glass	.5 kg
	11	Normal Paraffin Hydrocarbon	------- Unregulated ---			1	Glass	.5 pt
Flammable liquid	3	Flammable liquid N.O.S. (plexiglass cement)	D001	UN1993	Flammable liquid	1	Glass	1000 ml
"	6	Flammable liquid N.O.S. (Iodobenzene)	D001	UN1993	"	1	Glass	1 pt
Combustible	8	Combustible liquid N.O.S.	D001	NA1993	Combustable liquid	1	Glass	2/3 pt
ORM-E	18	Hazardous Waste liquid N.O.S. (Phosphenylchloride) (Dichlorophenyl phosphine)	NA	NA9189	None	2	Glass	.5 L
ORM-E	25	Hazardous Waste liquid N.O.S. (Indene)	NA	NA9189	None	1	Glass	500 ml
ORM-E	12	Hazardous Waste liquid N.O.S (Diazald)	NA	NA9189	None	1	Glass	1/8 pt
ORM-E	20	Hazardous Waste liquid N.O.S. Tris(hydroxymethyl) aminomethane (2-Amino-2 hydroxymethyl -3 propanediol)	NA	NA9189	None	1	Glass	1 L

Disposal Analysis 5-41

ONSITE DISPOSAL

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Corrosive liquid	5	Corrosive liquid N.O.S. (Hypophosphorous Acid)	D002	UN1760	Corrosive	1	Glass	1 pt
Corrosive liquid	15	Antimonypentachloride	D002	UN1730	Corrosive	1	Glass	250 gr
"	16	Bromine	D002	UN1744	Corrosive	2	Glass	1 L
ORM-E	4	Hazardous Waste liquid N.O.S.(Hydroiodic Acid)	NA	NA9189	None	1	Glass	1 pt
ORM-E	21	Hazardous Waste liquid N.O.S. (Dinoylnaphthalenesulfonic Acid)	NA	NA9189	None	1	Glass	1 pt
Package Separately the following reagents:								
Organic Peroxide	17	Benzoyl peroxide	D003	NA2080	Organic Peroxide	1	Glass	450 gr
Flammable solid	19	Flammable solid, poison N.O.S. (2,2,A20 bis 2 Methyl propionitrile)	NA	UN2926	Flammable solid and poison	1	Glass	1 L

Waste Description * designates EHW

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Flammable liquid	1	Carbon disulfide	P022	UN1131	Flammable liquid	1	Glass	200 ml
Flammable liquid	2	Butyl alcohol	D001	NA1120	"	1	Glass	200 ml
Flammable liquid	3	Flammable liquid N.O.S. (plexiglass cement)	D001	UN1993	"	1	Glass	100 ml
ORM-E	4	Hazardous Waste liquid N.O.S. (Hydroiodic Acid)	NA	NA9189	None	1	Glass	1 pt
Corrosive liquid	5	Corrosive liquid N.O.S. (Hypophosphorous Acid)	D002	UN1760	Corrosive	1	Glass	1 pt
	6	Flammable liquid N.O.S. (iodo benzene)	D001	UN1993		1	Glass	1 pt
Flammable liquid	7	*Pyridine	U196	UN1282	Flammable liquid	1	Glass	.5 pt
Combustable liquid	8	Combustible liquid N.O.S. (Isodecyl alcohol)	D001	NA1993	Combustible liquid	1	Glass	2/3 pt
Flammable liquid	9	*Toluene	U220	UN1294	Flammable liquid	1	Glass	2/3 pt
Flammable liquid	10	*Xylene	U239	UN1307	Flammable liquid	1	Glass	1 pt
	11	Normal Parafin Hydrocarbon	------ Non Regulated -----			1	Glass	1 pt
ORM-E	12	Hazardous Waste liquid N.O.S. (Diazald)	NA	NA9189	None	1	Glass	1/8 pt
Flammable liquid	13	Isopropanol (2-Propanol)		UN1219	Flammable liquid	8	Glass	1 pt
Flammable liquid	14	Butyl ether	D001	UN1148	Flammable liquid	1	Glass	.5 pt
Corrosive Mat.	15	Antimony pentachloride	D002	UN1730				
"	16	Bromine	D002	UN1744	Corrosive	2	Glass	1 L

5-91

Waste Description

* designates CIW

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Organic peroxide	17	Benzoyl peroxide flammable & Explosive & Toxic	D003	NA2080	Organic peroxide	1	Glass	450 gr
ORM-E	18	Hazardous Waste liquid N.O.S. (Phosphenyl chloride) (Dichlorophenyl phosphine)	NA	NA9189	None	2	Glass	.5 L
Flammable Solid	19	Flammable solid, poisonous N.O.S. (2,3, A20 bis 2 Methyl propionitrile)	NA	UN2936	Flammable solid poison	1	Glass	1 L
ORM-E	20	Hazardous Waste liquid N.O.S. (Tris hydroxy methyl) aminomethane (2-Amino-2 hydroxymethyl - 3 propanediol)	NA	NA9189	None	1	Glass	1 L
ORM-E	21	Hazardous Waste liquid N.O.S. (Dinoylnaphthalene sulfonic Acid)	NA	NA9189	None	1	Glass	1Kg
Flammable liquid	22	Alcohol N.O.S. (Amyl Alcohol)	D001	UN1987	Flammable liquid	1	Glass	1 L
Flammable liquid	23	Alcohol N.O.S (N-octylalcohol) (1-Octanol)	D001	UN1987	Flammable liquid	1	Glass	.5 Kg
Flammable liquid	24	*Toluene	U220	UN1294	Flammable liquid	1	Carton	300 g
ORM-E	25	Hazardous Waste liquid N.O.S. (Indene)	NA	NA9189	None	1	Glass	500 ml

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

GENERATION: The Generator should complete Part I and forward this form to: WS&DT 202-S/200 West Rockwell

5-41

A. Generator's Name: M.H. Peterson Phone: 3-2557 Address: 234-5-2W Company: Rockwell

B. Custodian's Name: M.H. Peterson Phone: 3-2557 Address: 234-5-2W Company: Rockwell

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. Carbon Disulfide	200 ml	Bottle	1		✓		
2. 1-Butanol	200 ml	Bottle	1		✓		
3. Cesium for Alloying	100 ml	Bottle	1		✓		
4. Hydriodic Acid	1 Pt.	Bottle	1		✓		
Hypophosphorous 5% acid	1 Pt.	Bottle	1		✓		

D. Have appropriate labels been affixed to containers? _____ Not required _____

E. Have efforts been made to recycle (e.g., excess) waste? to old.

F. Has waste been treated in any manner? No. If so, how? _____

G. Storage Location Rying Dock #5

"I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: _____

Generator's Signature: M H Peterson Date: 10-10-83

II. APPROVAL

A. Approved for disposal by Name: H. C. Boynton Phone: 3-3515 Address 2750-E Co.: Rockwell

Date: 6/14/84 Signature: Walter C. Boynton

B. Packaging Requirements (specify): Refer to Disposal Analysis 5-41

C. Disposal Location: (check one) ___ Chemical Trench, ___ Asbestos Trench, ___ 212-P (Storage), X Other 2727-S

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: _____ Phone: _____ Address: _____ Company _____

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

000067

SC-6700-174.1 (N-1-82)

9112243112336

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
6. Dodobenzene	½ Pt.	Bottle	1		✓		
7. Pyridine	100ml	Bottle	1		✓		
8. Delyl alcohol	⅔ Pt	Bottle	1		✓		
9. Toluene	⅔ Pt	Bottle	1		✓		
10. Xylene	1 Pt.	Bottle	1		✓		
11. N.P.H	½ Pt.	Bottle	1		✓		
12. Diazold	⅛ Pt.	Bottle	1		✓		
13. 2-Propanol	8 Pt	Bottles	8		✓		
14. Butyl Ether	½ liter	Bottle	1		✓		
15. Anhumog Chloride	250gr.	Bottle	1		✓		
16. Bromine	2 liters	Bottles	2		✓		
17. Benzoyl Peroxide	450gr.	Bottle	1		✓		
18. Dichlorophenylphosphine	1 liter	Bottles	2		✓		
19. 2,2 azobis 2 methylpropionitrile	1 liter	Bottle	1		✓		
20. 2 Amino-2 hydroxymethyl-1-3 propanediol → ←	1 liter	Bottle	1		✓		
21. Dinonylnaphthalenesulfonic Acid → 21. →	1 Kg	Bottle	1		✓		
22. Amyl alcohol	1 liter	Bottle	1		✓		
23. 1-Octanol	½ Kg	Bottle	1		✓		
26. Purified Toluene	400g	Carton	1		✓		
27. Indene	500 ml	Bottle	1		✓		
28.							
29.							
30.							
31.							
32.							
33.							
34.							000068

3C-6700-174.2 (N-1-82)

Waste Description

* designates EHW

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Flammable liquid	1	Carbon disulfide	P022	UN1131	Flammable liquid	1	Glass	200 ml
Flammable liquid	2	Butyl alcohol	D001	NA1120	"	1	Glass	200 ml
Flammable liquid	3	Flammable liquid N.O.S. (plexiglass cement)	D001	UN1993	"	1	Glass	100 ml
ORM-E	4	Hazardous Waste liquid N.O.S. (Hydroiodic Acid)	NA	NA9189	None	1	Glass	1 pt
Corrosive liquid	5	Corrosive liquid N.O.S. (Hypophosphorous Acid)	D002	UN1760	Corrosive	1	Glass	1 pt
	6	Flammable liquid N.O.S. (iodo benzene)	D001	UN1993		1	Glass	1 pt
Flammable liquid	7	*Pyridine	U196	UN1282	Flammable liquid	1	Glass	.5 pt
Combustable liquid	8	Combustible liquid N.O.S. (Isodecyl alcohol)	D001	NA1993	Combustible liquid	1	Glass	2/3 pt
Flammable liquid	9	*Toluene	U220	UN1294	Flammable liquid	1	Glass	2/3 pt
Flammable liquid	10	*Xylene	U239	UN1307	Flammable liquid	1	Glass	1 pt
	11	Normal Parafin Hydrocarbon	------ Non Regulated -----			1	Glass	1 pt
ORM-E	12	Hazardous Waste liquid N.O.S. (Diazald)	NA	NA9189	None	1	Glass	1/8 pt
Flammable liquid	13	Isopropanol (2-Propanol)		UN1219	Flammable liquid	8	Glass	1 pt
Flammable liquid	14	Butyl ether	D001	UN1148	Flammable liquid	1	Glass	.5 pt
Corrosive Mat.	15	Antimony pentachloride	D002	UN1730				
"	16	Bromine	D002	UN1744	Corrosive	2	Glass	1 L

le Description * designates EHW

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Organic peroxide	17	Benzoyl peroxide flammable & Explosive & Toxic	D003	NA2080	Organic peroxide	1	Glass	450 gr
ORM-E	18	Hazardous Waste liquid N.O.S. (Phosphenyl chloride) (Dichlorophenyl phosphine)	NA	NA9189	None	2	Glass	.5 L
Flammable Material	19	Flammable solid, poisonous N.O.S. (2,3, A20 bis 2 Methyl propionitrile)	NA	UN2936	Flammable solid poison	1	Glass	1 L
ORM-E	20	Hazardous Waste liquid N.O.S. (Tris hydroxy methyl) aminomethane (2-Amino-2 hydroxymethyl - 3 propanediol)	NA	NA9189	None	1	Glass	1 L
ORM-E	21	Hazardous Waste liquid N.O.S. (Dinoylnaphthalene sulfonic Acid)	NA	NA9189	None	1	Glass	1Kg
Flammable liquid	22	Alcohol N.O.S. (Amyl Alcohol)	D001	UN1987	Flammable liquid	1	Glass	1 L
Flammable liquid	23	Alcohol N.O.S (N-octylalcohol) (1-Octanol)	D001	UN1987	Flammable liquid	1	Glass	.5 Kg
Flammable liquid	24	*Toluene	U220	UN1294	Flammable liquid	1	Carton	300 g
ORM-E	25	Hazardous Waste liquid N.O.S. (Indene)	NA	NA9189	None	1	Glass	500 ml

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

I. **GENERATION:** The Generator should complete Part I and forward this form to: WS&DT 202-S/200 West Rockwell. 5-41

A. Generator's Name: M.H. Peterson Phone: 3-2557 Address: 234-5-2W Company: Rockwell

B. Custodian's Name: MH. Peterson Phone: 3-2557 Address: 234-5-2W Company: Rockwell

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. Carbon Disulfide	200 ml	Bottle	1		✓		
2. 1-Butanol	200 ml	Bottle	1		✓		
3. Cement for plexiglas	100 ml	~~Bottle~~ Can	1		✓		
4. Hydriodic Acid	1 pt.	Bottle	1		✓		
5. Hypophosphorous acid	1 pt.	Bottle	1		✓		

D. Have appropriate labels been affixed to containers? _____ Not required _____

E. Have efforts been made to recycle (e.g., excess) waste? to old.

F. Has waste been treated in any manner? No. If so, how? _____

G. Storage Location: Rping Dock #5

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: _____

Generator's Signature: M H Peterson Date: 10-10-83

II. **APPROVAL**

A. Approved for disposal by Name: H. C. Boynton Phone: 3-3516 Address 2750-E Co.: Rockwell

Date: 6/14/84 Signature: Harlan C Boynton

B. Packaging Requirements (specify): Refer to Disposal Analysis 5-41

C. Disposal Location: _____ X _____ Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), _____ X _____ Other 2727-S

III. **TRANSPORTATION/DISPOSAL**

A. Transporter(s) Name: _____ Phone: _____ Address: _____ Company _____

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

000071

BC-6700-174.1 (N-1-

9112221240

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
6. Dodobenzene	½ Pt.	Bottle	1		✓		
7. Pyridine	100ml	Bottle	1		✓		
8. Delyl alcohol	⅔ Pt	Bottle	1		✓		
9. Toluene	⅔ Pt	Bottle	1		✓		
10. Xylene	1 Pt.	Bottle	1		✓		
11. N.P.H	½ Pt.	Bottle	1		✓		
12. Diazald	⅛ Pt.	Bottle	1		✓		
13. 2-Propanol	8 Pt	Bottles	8		✓		
14. Butyl Ether	½ liter	Bottle	1		✓		
15. Antimony Chloride	250gr.	Bottle	1		✓		
16 Bromine	2 liters	Bottles	2		✓		
17 Benzoyl peroxide	450gr.	Bottle	1		✓		
18. Dichlorophenylphosphine	1 liter	Bottles	2		✓		
19. 2,2 azobis 2 methylpropionitrile	1 liter	Bottle	1		✓		
20. 2 Amino-2 hydroxymethyl-1-3 propanediol → ←	1 liter	Bottle	1		✓		
21. Dinonylnaphthalenesulfonic acid → 21 →	1 Kg	Bottle	1		✓		
22 ← Amyl alcohol	1 liter	Bottle	1		✓		
23 24. 1-Octanol	½ Kg	Bottle	1		✓		
26. Purified Toluene	400g	Carton	1		✓		
27. Isidine	500 ml	Bottle	1		✓		
28.							
29.							
30							
31							
32							
33							
34							

000072

BC-6700-174.2 (N-1-82)

DONT SAY IT ... write It!

TO Leonard Lust
3-4802 2750
200 - East
RHO

DATE 9-11-84

FROM S.M. Steele / M.H. Peterson
RHO 234-5 RHO 234-5

As per phone conversation of 9-10-84
Hazardous waste Manefest PPD-84-001
loading of barrels of Waste material and shipment
to disposal site was completed 3-16-84.

"TO MAKE LIFE LAST, PUT SAFETY FIRST"

000073

9 1 1 2 2 4 3 1 2 4 2

DISPOSAL PACKET NUMBER

P84-041

9 1 1 2 2 4 3 1 2 4 3

6-14-84?

Internal Letter

Rockwell International

Date: May 22, 1984

No: 65950-84-335

TO: (Name, Organization, Internal Address)
R. C. Opgenorth
271-T/200W

FROM: (Name, Organization, Internal Address, Phone)
D. D. Fischer
Solid Waste Processing & Disposal Waste
3-2491

Subject: APPROVED DISPOSAL REQUEST 8-15 and 9-7

Ref: Application to Dispose of Non-Radioactive Hazardous Waste, March 28, 1984, R. C. Opgenorth.

The disposal method for chemical reagents listed in the referenced applications is prescribed on the attached Disposal Request Analysis.

All packaging, labeling and marking of waste reagents shall be completed in accordance with the prescribed instructions which are based on Department of Transportation (DOT) regulations (49 CFR 171-179). A Hazardous Waste Manifest is required to accompany all waste shipments in accordance with 40 CFR 263.

Arrangements for transporting waste materials to the 2727-S storage facility (for forwarding to offsite disposal) and transporting onsite disposal packages directly to the Hanford Non-Radioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented upon compliance with the stated disposal request instructions and Hazardous Waste Manifest requirements.

Inspections by Rockwell of package content and integrity will be made as required to certify waste is disposed of in the manner designated in the burial analysis. Failure to package in the manner described in the burial analysis will result in suspension of disposal privileges for the offending facility.

Should you require further assistance regarding the disposition of wastes listed on Disposal Requests 8-15 and 9-7, please contact the following Rockwell personnel:

D. D. Fischer	Solid Waste Processing & Disposal
G. R. Cox	Industrial Hygiene & Safety (2727-S Offsite Shipment Coordinator) (3-3679)

Rockwell International

D. L. McCall	Material (6-1651)
A. D. Poor	Transportation (5-1452)

D. D. Fischer, Engineer
Solid Waste Processing &
Disposal Unit

DDF/mjb

Att:

cc: C. R. Cox
D. R. Groth
A. D. Poor
L. H. Rodgers

000148

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE 9-7

I. **GENERATION:** The Generator should complete Part I and forward this form to: WS&DT
202-S/200 West
Rockwell

A. Generator's Name: ROB OPHENGRTH Phone: 3-2650 Address: 271-T/200W Company: RHC

B. Custodian's Name: _____ Phone: _____ Address: _____ Company: _____

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. [illegible]	1 GAL	GLASS	1		✓		
2. [illegible]	[illegible] GAL	GLASS	[illegible]		✓		
3. [illegible]	[illegible] LBS	[illegible]	[illegible]	✓			
4.	[illegible]	PLASTIC	[illegible]	✓			
5. [illegible]	[illegible]	PLASTIC	[illegible]	✓			

D. Have appropriate labels been affixed to containers? YES Not required _____

E. Have efforts been made to recycle (e.g., excess) waste? NO

F. Has waste been treated in any manner? NO If so, how? _____

G. Storage Location [illegible]

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: _____

Generator's Signature _____ Date: _____

II. **APPROVAL**

A. Approved for disposal by Name: D. D. Fischer Phone: 3-2491 Address 2750-E Co. Rockwell

Date: 6/14/84 Signature: [signature]

B. Packaging Requirements (specify): Refer to Disposal Analysis 9-7

C. Disposal Location: (check one) _____ x _____ Chemical Trench, _____ Asbestos Trench, _____ 212-P (Storage), X Other 2727-S

III. **TRANSPORTATION/DISPOSAL**

A. Transporter(s) Name. _____ Phone: _____ Address: _____ Company _____

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

000149

SC 5700-174.1 (N-1-82)

9112221312246

6.) SODIUM HYDROXIDE	5 LBS	GLASS	1	SOLID
7.) SODIUM CARBONATE	1 LB	PLASTIC	1	SOLID
8.) 4M NANO3	6 OZ	GLASS	3	LIQUID
9.) 6M NA OH	4 OZ.	GLASS	4	LIQUID

00C151

OFFSITE DISPOSAL - Items listed on this disposal request must be properly packaged and manifested for shipment to an offsite disposal facility. These items were determined to be "Extremely Hazardous Waste" (EHW) and in accordance with Washington State Law (Chapter 173-303 WAC) cannot be disposed of at the Hanford Hazardous Waste Chemical Trench.

The Hanford generator has the responsibility for packaging and shipment arrangements of EHW to secure its delivery to the chemical offsite staging facility 2727-S/200W. Further offsite EHW shipment originating from 2727-S will be arranged by Rockwell Hanford Operations.

Instruction for packaging, labeling and marking:

- The mercury (Item 1) should be separately packaged, labeled and marked in accordance with DOT regulations (49 CFR 171-179). For shipment to an offsite disposal facility use vermiculite or kitty litter to fill in void space.
- The dichloromethane (Item 3) should also be separately packaged, labeled and marked in accordance with DOT regulations. Also fill void spaces.
- The xylene (Item 6) listed on Disposal Request 8-15 must be overpacked in a separate 17H 30 gallon steel drum. Also fill void spaces.
- The DOT Hazard class label must be applied to the overpack.
- The proper shipping name and ID number must be marked on the overpack.
- A weatherproof listing of the contents must be applied to the overpacks.
- Mark on the overpack lid "This side up".
- Mark the weight of the drum if drum exceeds 110 lbs.
- Mark a package identification number which correlates with the manifest information.

000152

ONSITE DISPOSAL - Waste reagents listed below are to be properly package and Manifested for,disposal at Hanford Non-Radioactive Hazardous Waste Chemical Trench. Chemicals listed within the same "Compatible Group" may be combined in a common overpack compatible group I contains items 3B, 4B, 8B compatible group II contains items 5B, 6B, 7B, 9B package items 2A, 4A, 5A, 7A, 8A and 9A in separate overpacks.

Instruction for Packaging, Labeling and Marking:

- o The DOT Hazard class label must be applied to each container.
- o Each container must be labeled with the reagent shipping name and EPA identification number as listed on the Disposal Analsysis chart.
- o Mark an identification number on each container which correlates with the Hazardous Waste Manifest.
- o Mark weight of the drum if weight exceeds 110 pounds.

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
DISPOSAL REQUEST 8-15								
ORM-B	1A	MERCURY	U151	NA2809	None	1	Glass	4 oz.
ORM-B	2A		NA	NA1759	None	3	Plastic	1 gal.
ORM-A	3A	Dichloromethane	U080	UN1593	None	1	Metal	1/2 gal.
Oxidizer	4A	Nitric Acid (over 40%)	D003	UN1830	Corrosive & Oxidizer	2	Glass	1 gal.
Corrosive	5A	Sulfuric Acid	D002	UN1830	Corrosive	1	Glass	1 gal.
Flammable Liq.	6A	Xylene	U239	UN1307	Flammable Liq.	1	Metal	10 gal.
Corrosive	7A	Ferric Chloride	D002	UN2582	Corrosive	1	Metal	13 gal.
Corrosive	8A	Corrosive Liquid N.O.S. (Hysol M-452)	D002	UN2582	Corrosive	1	Metal	1 gal.
Corrosive	9A	Corrosive Liquid N.O.S. (Diethyltriamine >40%)	D002	UN1760	Corrosive	1	Plastic	1 pt.
	10A	CAN NOT CHARACTERIZE WITHOUT FURTHER INFORMATION						
DISPOSAL REQUEST 9-7								
	1B	See #5 Above						
	2B	See #4 Above						
Oxidizer	3B	Sodium Nitrate	D003	UN1498	Oxidizer	10	Glass	1 lbs.
Oxidizer	4B	Sodium Nitrate	D003	UN1498	Oxidizer	20	Plastic	1 lbs.

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Corrosive	5B	Sodium Hydroxide	D002	UN1823	Corrosive	2	Plastic	5 lbs.
Corrosive	6B	Sodium Hydroxide	D002	UN1823	Corrosive	1	Glass	5 lbs.
Non-Regulated	7B	Sodium Carbonate				1	Plastic	116
Oxidizer	8B	Sodium Nitrate	D003	UN1498	Oxidizer	3	Glass	202
Corrosive	9B	Sodium Hydroxide	D002	UN1823	Corrosive	4	Glass	1 oz.

DISPOSAL PACKET NUMBER

P84-044

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

8-17

I. GENERATION: The Generator should complete Part I and forward this form to: ~~WS&DT~~ H.C. Boynton ~~202-S/200 West~~ 2750-E/A-104 ~~Rockwell~~ Rockwell

A. Generator's Name: B-Plant/J.D. Briggs Phone: 3-2815 Address: 271-B Company: Rockwell

B. Custodian's Name: J.D. Briggs Phone: 3-2463 Address: 271-B/211-B Company: Rockwell

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. Lanthanum Nitrate	38	30 gal*	38		X		Oxidizer
2. Trichloroethane	15	55 gal**	15		X		ORM-A
3							
4							
5.							

D. Have appropriate labels been affixed to containers? YES Not required _____

E. Have efforts been made to recycle (e.g., excess) waste? YES (container not returnable)

F. Has waste been treated in any manner? NO If so, how? _____

G. Storage Location: 271-B loading dock

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: B 84 03 008(attached)

* Rubber drums
** Steel drums

Generator's Signature: [signature] Date: 3/27/84

II. APPROVAL

A. Approved for disposal by Name: H.C. Boynton Phone: 3-3516 Address 2750-E Co.: Rockwell

Date: 6-15-84 Signature: [signature]

B. Packaging Requirements (specify): Refer to disposal Request 8-17

C. Disposal Location: X Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), _____ Other

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: TW Tobey Phone: 6-8860 Address: 1171 B bldg Company RLHD

B. Date Transported/Disposed: 6-27-84

C. Transporter(s) Signature: [signature]

000169

BC-6700-174.1 (8-

Internal Letter

Rockwell International

Date: May 22, 1984

No. 65950-84-334

TO: (Name, Organization, Internal Address)
J. D. Briggs
271-B/211-B

FROM: (Name, Organization, Internal Address, Phone)
D. D. Fischer
Solid Waste Processsing & Disposal Unit
3-2491

Subject: APPROVED DISPOSAL REQUEST 8-17

Ref: Application To Dispose of Non-Radioactive Hazardous Waste, March 27, 1984, J. D. Briggs

The disposal method for chemical reagents listed in the referenced applications is prescribed on the attached Disposal Request Analysis.

All packaging, labeling and marking of waste reagents shall be completed in accordance with the prescribed instructions which are based on Department of Transportation (DOT) regulations (49 CFR 171-179). A Hazardous Waste Manifest is required to accompany all waste shipments in accordance with 40 CFR 263.

Arrangements for transporting waste materials to the 2727-S storage facility (for forwarding to offsite disposal) and transporting onsite disposal packages directly to the Hanford Non-Radioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented upon compliance with the stated disposal request instructions and Hazardous Waste Manifest requirements.

Inspections by Rockwell of package content and integrity will be made as required to certify waste is disposed of in the manner designated in the burial analysis. Failure to package in the manner described in the burial analysis will result in suspension of disposal privileges for the offending facility.

Should you require further assistance regarding the disposition of wastes listed on Disposal Requests 8-17, please contact the following Rockwell personnel:

D. D. Fischer	Solid Waste Processing & Disposal (3-2491)
G. R. Cox	Industrial Hygiene & Safety (2727-S Offsite Shipment Coordinator) (3-3679)

Rockwell International

D. L. McCall	Material (6-1651)
A. D. Poor	Transportation (6-1452)

D. D. Fischer, Engineer
Solid Waste Processing &
Disposal Unit

DDF/njb

Att:

cc: C. R. Cox
D. R. Groth
A. D. Poor
L. H. Rodgers

ONSITE DISPOSAL - a) Lanthanum nitrate contaminated empty 30-gallon rubber drums (item #1) can be shipped, without triple rinsing, to the Hanford Non-Radioactive Hazardous Waste Disposal Trench.

The following marking and labeling should be present, if it is not already apparent:

- o The DOT hazard class "oxidizer" label must be applied to each container .
- o Each container must be labeled with the reagent shipping name and the identification number as listed on the Disposal Analysis chart (page 3).
- o Mark an identification number on each container which correlates and with the Hazardous Waste Manifest.

b) Trichloroethane contaminated empty 55-gallon drums must be rinsed twice with a suitable solvent and once with water. The waste solvent and water must be properly dispositioned. After triple rinsing the drums they can be shipped to the Hanford Non-Radioactive Hazardous Waste Disposal Trench.

The following marking and labeling should be present if it is not already apparent:

- o Each container must be labeled with the reagent shipping name and identification number as listed on Page 3 of this disposal analysis.
- o Mark an identification number on each container which correlates with the Hazardous Waste Manifest.

Since trichloroethane has been identified as an "Extremely Hazardous Waste", according to Washington State law (Chapter 173-303 WAC), the empty drums cannot be disposed of at the Non-Radioactive Hanford Hazardous Waste Disposal Trench without being tripled rinsed. If the triple rinse process is not compatible with the ongoing operation then these empty drums must be properly labeled and manifested for shipment to an offsite disposal facility.

The Hanford generator has the responsibility for packaging and arranging shipment of EHW to secure its delivery to the chemical offsite staging facility 2727-S/200W. Further offsite EHW shipment originating from 2727-S will be arranged by Rockwell Hanford Operations.

Instruction for packaging, labeling and marking:

- The proper shipping name Trichloroethane and ID # UN2831 must be marked on each drum.
- Mark a package identification number which correlates with the manifest information.

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Oxidizer	1.	Nitrate NOS Lanthanum Nitrate	D003	NA1477	Oxidizer	40	Rubber	30 gal.
ORM-A	2.	Trichloro-ethane	U228	UN2831	None	3	Steel	55 gal.

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

8-17

I. GENERATION: The Generator should complete Part I and forward this form to: ~~WSSDT~~ H.C. Boynton ~~202-S/200 West~~ 2750-E/A-104 ~~Rockwell~~ Rockwell

A. Generator's Name: B-Plant/J.D. Briggs Phone: 3-2815 Address: 271-B Company: Rockwell

B. Custodian's Name: J.D. Briggs Phone: 3-2463 Address: 271-B/211-B Company: Rockwell

C. Waste Description. (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. Lanthanum Nitrate	38	30 gal*	38		X		Oxidizer
2. 1,1,1-Trichloroethane	15	55 gal**	15		X		ORM-A
3.							
4.							
5.							

D. Have appropriate labels been affixed to containers? YES No: required

E. Have efforts been made to recycle (e.g., excess) waste? YES (container not returnable)

F. Has waste been treated in any manner? NO If so, how?

G. Storage Location: 271-B loading dock

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: B 84 03 008(attached)

* Rubber drums
** Steel drums

Generator's Signature: [signature] Date: 3/27/84

II. APPROVAL

A. Approved for disposal by Name: H.C. Boynton Phone: 3-3516 Address 2750-E Co.: Rockwell

Date: 6-15-84 Signature: [signature]

B. Packaging Requirements (specify): Refer to disposal Request 8-17

C. Disposal Location: X Chemical Trench, Asbestos Trench,
(check one) 212-P (Storage), Other

III. TRANSPORTATION/DISPOSAL

a. Transporter(s) Name: Phone: Address: Company

b. Date Transported Disposed:

c. Transporter(s) Signature:

000175

BC-6700-174.1 (86-1-4)

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

8-17

I. **GENERATION:** The Generator should complete Part I and forward this form to: ~~WS&DT~~ ~~202 S/200 West~~ ~~Rockwell~~ H.C. Boynton 2750-E/A-104 Rockwell

A. Generator's Name: B-Plant/J. D. Briggs Phone: 3-2815 Address: 271-B Company: Rockwell

B. Custodian's Name: J. D. Briggs Phone: 3-2463 Address: 271-B/211-B Company: Rockwell

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. Lanthanum Nitrate	40***	30 gal*	40		✓		Oxidizer
2. Trichloroethane	3***	55 gallon**	3		✓		ORM-A
3. Fork Truck Battery	1	Battery Case	1		✓		Corrosive Material
4.							
5.							

D. Have appropriate labels been affixed to containers? YES Not required _____

E. Have efforts been made to recycle (e.g., excess) waste? YES (container not returnable)

F. Has waste been treated in any manner? NO If so, how? _____

G. Storage Location: 271-B loading dock

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: B 84 03 008 (attached)

* Rubber drums
** Steel drums
*** Total increase daily due to (Empty Drums)

Generator's Signature: J D Briggs Date: 3/27/84

II. **APPROVAL**

A. Approved for disposal by Name: H.C. Boynton Phone: 3-3516 Address 2750E Co.: Rockwell

Date: 4-30-84 Signature: Hunter C Boynton

B. Packaging Requirements (specify): All drums must be triple rinsed prior to shipment to the chemical trench. Check with Mr. McCollum 6-6706 prior to taking battery to the excess yard.

C. Disposal Location: X (Drums) Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), excess X Other (Battery)

III. **TRANSPORTATION/DISPOSAL**

A. Transporter(s) Name: _____ Phone: _____ Address: _____ Company _____

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

000176

BC-6700-174.1 (N-1-

8-0	8-12	12-8	8-4	4-12	BURIAL	CONTROL PROGRAM	DECONT.	FOLLOW-UP	INSP.	LAB	MAINT.	PERSONNEL SURVEYS	PROCESS WORK	RAIL MOVEMENT	RELEASE	SAMPLING	ON SITE SHIPMENT	OFF SITE SHIPMENT	VEHICLES SURVEY	CONTAM. CLOTHES	CONTAM. SKIN	NASAL SM. AND IRRIG.	RADIATION OCCUR.	RE INJURY

TIME — FUNCTIONS — REPORTS

SHIFTS: C, B, A, DAYS

PLANTS: PLANT, PUREX, S, T, Z, TANK FARMS EAST, TANK FARMS WEST, 1100, 200 GENERAL, 242-A, 242-S, 242-T, ENVIRON. MONITORING

OPERATIONS: LAB, MAINT, PROCESS-ING, RADIATION MONITORING, CONST., SP SER DECON, UO_3, ENCAP., D & D

☐ SWP
☐ RWP NO _____

RADIATION SURVEY

SURVEY NUMBER: A8413008

TIME JOB STARTED: 1400

TOTAL TIME: 8HRS

RESPIRATORY PROTECTION WORN: ☐ None ☒ Filter ☐ Supplied Air

LOCATION: F-221, 271

INSTRUMENT(S) USED: CMC

JOB DESCRIPTION: 1) ROUTINES 2) SAMPLING 12-1 3) PERSONNEL & EQUIPMENT 4) BOX OF MASKS, 5) LAUNDRY 6) DRUMS SURVEYED

Item	Dose Rate Measurements	WO	WC	Dist.	Neutron
1	SAMPLE 12-1	5RADS			

Item	Contamination Detection Levels Personnel — Equipment	Smear At Least 1000 cm²	Direct c/m	Direct d/m	Smears c/m	Smears d/m
1	FOOTSTEP				<200	
2	F-N-E		<200		<200	
4	MASKS		<200		<200	
5	LAUNDRY		<200		<200	
6	DRUMS		<200		<200	

* DOSE RATE - WHOLE BODY NORMALIZED TO WHOLE BODY OR BODY EQUIVALENT

☒ Over

SIGNED: [illegible]

DAY: 14 13 12 11 10 9 8 7 6 5 4 3 2 1

MONTH: DEC NOV OCT SEPT AUG JULY JUNE MAY APRIL MARCH FEB JAN

More drums of same material will be added since our process is on going.

JOB 3/27/84

000177

DISPOSAL PACKET NUMBER

P84-045

9 1 1 2 2 4 3 1 2 6 2

OUTGOING LTR. NO.
R84-2347
INCOMING LTR. NO.

ACTION

REPLY DUE

DIST:	TTR	ENCL	APPR
Ash, E.B.			
Bartholomew, D.C.			
Bellotette, M.			
Carey, J.M.			
Crawford, A.C.	✓		
Deshmane, J.L.			
Di Pel, C.V.			
Donahoe, J.W.			
Gimore, R.L.			
Gross, R.S.			
Hammond, R.D.			
Hanemann, R.E.			
Kiezer, J.E.			
Knight, S.E.			
Larson, M.P.			
Jonson, P.G.	✓		
Murdock, R.G.			
McDermott, R.L.			
Ogorzow, L.R.			
Pascoe, K.L.			
Pomeroy, J.W.	✓		
Perry, J.D.			
Remer, A.L.			
Roesler, J.H.	✓		
Salem, C.M.			
Weil, V.R.			
Zabo, L.L.			
Contract Administrator	✓		
Central Files	✓		
W.F. Heine	✓		
L.H. Rodgers	✓		
O.E. Smith	✓		
W.C. Boynton	✓		
D.D. Wadsich	✓		

JUL 05 1984
ml

Rockwell Hanford Operations
Energy Systems Group
P.O. Box 800
Richland, WA 99352

Rockwell International

JUL 05 1984

In reply, refer to letter R84-2347

Ms. J. M. Hobbs
Development Engineer
Laboratory Safety Department
Post Office Box 999
Richland, WA 99352

Dear Ms. Hobbs:

APPROVED DISPOSAL REQUEST 9-41 (PNL-84-013)

Reference: Application to Dispose of Nonradioactive Hazardous Waste, June 11, 1984, J. M. Hobbs

Rockwell Hanford Operations (Rockwell) has completed review of the reference Disposal Request 9-41. The disposal method for these wastes is outlined on the attached Disposal Request Analysis. Chemicals listed within the same "compatible" group may be combined in a common overpack.

All packaging, labeling, and marking of the waste reagents shall be completed in accordance with the prescribed instructions which are based on Department of Transportation (DOT) regulations (49 CFR 171-179). A Hazardous Waste Manifest is required to accompany all waste shipments in accordance with 40 CFR 263.

Arrangements for transporting waste materials to the 2727-S storage facility (for forwarding to offsite disposal) and transporting onsite disposal packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented upon compliance with the stated Disposal Request instructions and Hazardous Waste Manifest.

Inspections by Rockwell of package content and integrity will be made as required to certify waste is disposed of in the manner designated in the Burial Analysis. Failure to package in the manner described in the Burial Analysis will result in suspension of disposal privileges for the offending facility.

Rockwell International

Should you require further assistance regarding the disposition of wastes listed on Disposal Request 9-41, please contact me on 3-4033.

Very truly yours,

Mary B. Weihs

M. B. Weihs
Solid Waste Processing & Disposal Unit

MBW:ra

Attachments

cc: G. R. Cox
D. R. Groth
A. D. Poor
L. H. Rodgers

Disposal Analysis 9-41

Offsite Disposal

The drums of bulk hazardous liquids (items 3, 7, and 8 of Disposal Request 9-41) are to be properly packaged and manifested for shipment to an offsite disposal facility in accordance with State of Washington Law (Chapter 173-303 WAC). The Hanford generator has the responsibility for packaging and shipment of bulk liquids to the offsite staging facility 2727-S/200-W. Offsite disposal shipments originating from 2727-S will be organized by Rockwell.

Onsite Disposal

The waste reagents listed in this section on the following page are to be properly packaged, labeled and manifested for disposal at the Hanford Nonradioactive Hazardous Waste Chemical Trench.

The drum of asphalt emulsion (item #8a of the Disposal Analysis) that is badly split open must be repackaged or placed in a tight, sealed container. It can then be labeled, marked and manifested for onsite disposal.

Instructions for packaging, labeling, and marking wastes for offsite and onsite disposal:

- Wastes should be packaged in strong, tight metal containers.
- Inert packing material must be used to separate individual containers within the overpack such as kitty litter or vermiculite.
- The DOT hazard class label(s) must be applied to the overpacks and drums.
- A weatherproof listing of the reagents must be applied to the overpacks, e.g., a protected cut out of the information which includes shipping name and identification number may be fixed to the overpack.
- Mark the drum lid "This Side Up."
- Mark the weight of the drums if it exceeds 110 pounds.
- Mark a package identification number correlating with the Hazardous Waste Manifest.

DISPOSAL ANALYSIS 9-41

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
		OFFSITE DISPOSAL						
Corrosive	3	Ethylene Diamine	D002	UN1604	Corrosive	1	Steel Drum	55 gal.
Oxidizer	7	Silver Nitrate	D003	UN1493	Oxidizer	1	Polyethylene Carbouy	13 gal.
Corrosive	8	Corrosive Waste N.O.S. (Asphalt Emulsion)	D002	UN1760	Corrosive	4	Steel Drum	55 gal. (1/2 full
		ONSITE DISPOSAL						
Compatible Group A								
ORME-E	2	Versene EDTA	N/A	NA9117	None	1	Fiberboard Drum	100 lb.
" "	4	Hazardous Waste Liquid (Thiourea) N.O.S.	N/A	NA9189	None	2	Plastic 5 gal. Pail	25 lb.
" "	5	Hazardous Waste Liquid (Ethylene Glycol) N.O.S.	N/A	NA9189	None	1	Polyethylene Carbouy	13 gal.
Nonregulated	6	Silicone Oil	N/A	----	----	1	Polyethylene Carbouy	6 gal.
Package Individually								
Oxidizer	1	Oxidizer N.O.S. (Ammonium Persulfate)	D003	NA1479	Oxidizer	2	Fiberboard Drum	225 lb.
Corrosive	9	Corrosive waste N.O.S. (empty 55 gal. Drums)	D002	UN1760	Corrosive	9	55 gal. Drums	55 gal.
Corrosive	8a	Corrosive Waste N.O.S. (Split Asphalt Emulsion Drum)	D002	UN1760	Corrosive	1	55 gal. Drums	55 gal.

WASTE DESCRIPTION 9-41

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Oxidizer	1	Oxidizer N.O.S. (Ammonium Persulfate)	D003	NA1479	Oxidizer	2	Fiberboard Drum	225 lb.
ORM-E	2	Versene EDTA	N/A	NA9117	None	1	Fiberboard Drum	100 lb.
Corrosive	3	Ethylene Diamine	D002	UN1604	Corrosive	1	Steel Drum	55 gal.
ORM-E	4	Hazardous Waste Solid N.O.S. (Thiourea)	N/A	NA9189	None	2	Plastic 5 gal. pail	25 lb.
ORM-E	5	Hazardous Waste Liquid N.O.S. (Ethylene Glycol)	N/A	NA9189	None	1	Polyethylene Carbouy	(1/3 full 13 gal.
Non-regulated	6	Silicone Oil	N/A	----	----	1	" "	6 gal.
Oxidizer	7	Silver Nitrate 0.015N $AgNO_3$	D003	UN1493	Oxidizer	1	" "	13 gal.
Corrosive	8	Corrosive Liquid N.O.S. (Asphalt Emulsion)	D002	UN1760	Corrosive	5	Steel Drum	(1/2 full) 55 gal Drum
Corrosive	9	Corrosive Waste N.O.S. (Empty 55 Gal. Drums)	D002	UN1760	Corrosive	9	55 gal Drums	55 gal.

XXXX-XX-XXX

PNL-84-014

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

9-41

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT, 202-S/200 West, Rockwell

A. Generator's Name: Jeene Hobbs Phone: 6-1631 Address: 3762/300 Area Company: PNL

B. Custodian's Name: Jerry Dunn Phone: _____ Address: 306W/300 Area Company: PNL

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. Ammonium persulfate	450#	fiberboard drum	2	X			
2. Versene EDTA	100#	fiberboard drum	1	X			
3. Ethylene diamine	55 gal	steel drum	1		X		
4. Thiourea	50#	plastic 5 gal pail	2	X			
5. Asphalt emulsion	385 gal	drum	6 XX		X		corrosive

D. Have appropriate labels been affixed to containers? _____ Not required _____ They will be.

E. Have efforts been made to recycle (e.g., excess) waste? no

F. Has waste been treated in any manner? no If so, how? _____

G. Storage Location 1717K/100K Area

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: _____

Generator's Signature: Jeene Hobbs *Jeene M Hobbs* Date: 11 June 84 XXXXXXXXXX

II. APPROVAL

A. Approved for disposal by Name: Mary B. Weihs Phone: 3-4033 Address 2750-F Co. Rockwell

Date: 7/5/84 Signature: *Mary B Weihs*

B. Packaging Requirements (specify): Refer to Disposal Analysis 9-41

C. Disposal Location (check one): _____ X Chemical Trench, _____ Asbestos Trench, _____ 212-P (Storage), _____ X Other 2727-S

III. TRANSPORTATION/DISPOSAL

Transporter's Name: _____ Phone: _____ Address: _____ Company _____

Date Transported: _____

000173

XXXXXXXXXX

PNL-84-014

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

9-41

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT 202-S/200 West Rockwell

A. Generator's Name: Jeene Hobbs Phone: 6-1631 Address: 3762/300 Area Company: PNL

B. Custodian's Name: Jerry Dunn Phone: Address: 306W/300 Area Company: PNL

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. Ammonium persulfate	450#	fiberboard drum	2	X			
2. Versene EDTA	100#	fiberboard drum	1	X			
3. Ethylene diamine	55 gal	steel drum	1		X		
4. Thiourea	50#	plastic 5 gal pail	2	X			
5. Asphalt emulsion	385 gal	drum	6 XX		X		corrosive

D. Have appropriate labels been affixed to containers? _____ Not required _____ They will be.

E. Have efforts been made to recycle (e.g., excess) waste? no

F. Has waste been treated in any manner? no If so, how?

G. Storage Location: 1717K/100K Area

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number:

Generator's Signature: Jeene Hobbs *Jeene M Hobbs* Date: 11 June 84 XXXXXXXXXX

II. APPROVAL

A. Approved for disposal by Name: Mary B. Weihs Phone: 3-4033 Address 2750-F Co. Rockwell

Date: 7/5/84 Signature: *Mary B Weihs*

B. Packaging Requirements (specify): Refer to Disposal Analysis 9-41

C. Disposal Location: X Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), X Other 2727-S

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: _____ Phone: _____ Address: _____ Company _____

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

9 1 1 2 2 4 3 1 2 6 9

BC-6700-174.1 (N-1-82)

DISPOSAL PACKET NUMBER

P84-051

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

PNL-83-026

6-9

I. **GENERATION:** The Generator should complete Part I and forward this form to: WS&DT, 202-S/200 West, Rockwell

A. Generator's Name: Jeene Hobbs Phone: 6-1631 Address: 3782/300 Area Company: PNL

B. Custodian's Name: Bill Rossitor Phone: 6-5946 Address: 325/300 Area Company: PNL

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. Sodium nitrite	18 drums	DOT-17H-55	18	X			Oxidizer
X (the chemical is in fiberboard drums. They have been put inside the 55 gal metal							
X ones.)							
2. X Nickel, hydrated		DOT-17H-55	10	X			
X (The chemical is in plastic bags app 100#. These bags are being put into a lined							
metal drum. The liner is probably 4 or 8 mil poly.)							

D. Have appropriate labels been affixed to containers? _____ Not required _____ Labels will be applied as necessary.

E. Have efforts been made to recycle (e.g., excess) waste? yes

F. Has waste been treated in any manner? no If so, how? _____

Storage Location: JA Jones lot/3000Area Contact Rossitor for exact location

G. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: _____

Generator's Signature: Jeene Hobbs *Jeene M Hobbs* Date: 1 November 83

II. **APPROVAL**

A. Approved for disposal by Name: H. C. Boynton Phone: 3-3516 Address 2750-F Co. Rockwell

Date: 6/11/84 Signature: [illegible]

B. Packaging Requirements (specify): Refer to disposal analysis 6-9

C. Disposal Location: X Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), _____ Other

III **TRANSPORTATION/DISPOSAL**

Transporter(s) Name: _____ Phone: _____ Address: _____ Company _____

B. Date Transported Disposed: _____

000974

9112241271

HAZARDOUS WASTE MANIFEST

STRAIGHT BILL OF LADING

ORIGINAL - NOT NEGOTIABLE

MANIFEST DOCUMENT NUMBER

PNL-M-84-002

This document refers to disposal request #PNL-83-026. Disposal approval #6-9.

TO:	FROM:
T/S/D FACILITY Rockwell Hanford Operations	Generator Battelle - PNL
E.P.A. ID Code No. WA-89-000-8967	E.P.A. ID Code No. WA-89-000-8967
Address Richland, WA 99352	Address Richland, WA 99352
Destination Central Landfill - Chemical trench	Origin JAJones lot/3000 Area
Phone Harlan Boynton 373-3516	Phone Jeene Hobbs 376-1631

No. Shipping Units	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Mat'l ID No.	EPA Haz Waste No	WEIGHT	LABELS REQUIRED (or Exemption No.)
18	Waste Sodium nitrite	Oxidizer	UN1500	D003		Oxidizer
10	Waste Nickel, hydrated	ORM-E	NA9140	NA		None
	18 DRUMS of Sodium Nitrite at 465 ea total 8370. Kg					
	10 DRUMS of Nickel, Hydrated 332.0, 300, 353, 340, 239					
	355, 364, 260, 292 + 342 → Total 3177. Kg					

PLACARDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)	EMERGENCY RESPONSE INFORMATION
T/S/D FACILITY none	CONTACT Name Jeene Hobbs
E.P.A. ID Code No.	Phone 376-1631
Address	National Response Center 1-800-424-8802
Destination	in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature Jeene Hobbs Jeene M Hobbs Date 7-16-84

TRANSPORTER #1 [illegible] E.P.A. ID No.

Address 1171 Bldg 1100 Area

City Pasco State WA Zip 99352 Phone 376-8860

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature _____ Date _____

TRANSPORTER #2 _____ E.P.A. ID No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

000075

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature [illegible] Date 7-19-84

ORIGINAL - RETURN TO GENERATOR

HAZARD WASTE

9112172

Rockwell International

Should you require further assistance regarding the disposition of wastes listed on Disposal Request 6-9, please contact me on 3-3516.

Very truly yours,

H. C. Boynton, Engineer
Solid Waste Processing & Disposal Unit

HC3/njb

Att.

cc: G. C. Cox - Rockwell, w/att
A. D. Poor - Rockwell, w/att

Rockwell Hanford Operations
Energy Systems Group
P.O. Box 800
Richland, WA 99352

Rockwell International

In reply refer to letter R84-2063

JUN 13 1984

Ms. J. M. Hobbs
Development Engineer
Laboratory Safety Department
Pacific Northwest Laboratory
P. O. Box 999
Richland, Washington 99352

Dear Ms. Hobbs:

APPROVED DISPOSAL REQUEST 6-9 (PNL-83-026)

Reference: Application to Dispose of Non-Radioactive Hazardous Waste, November 1, 1984, J. M. Hobbs

Rockwell Hanford Operations (Rockwell) has completed review of the referenced Disposal Request for bulk useless chemicals. The disposal methods for these wastes are prescribed on the attached Disposal Request Analysis.

All packaging, labeling and marking of waste reagents shall be completed in accordance with Department of Transportation (DOT) regulations (49 CFR 171-179). A Hazardous Waste Manifest is required to accompany all waste shipments in accordance with 40 CFR 263.

Arrangements for transporting onsite disposal packages directly to the Hanford Non-Radioactive Hazardous Waste Disposal Trench is a generator responsibility and may by implemented upon compliance with the stated disposal request instructions and Hazardous Waste Manifest requirements.

Inspection by Rockwell of package content and integrity will be made as required to certify waste is disposed of in the manner described in the burial analysis. Failure to package in the manner described in the burial analysis will result in suspension of disposal provileges by the offending facility.

ONSITE DISPOSAL - Waste reagents listed on the following page are to be properly packaged and manifested for disposal at the Hanford Non-Radioactive Hazardous Waste Chemical Trench. It would appear from the disposal request 6-9 that these wastes are already packaged in accordance with Department of Transportation (DOT) regulations (49 CFR 171-179).

Instruction for Packaging, Labeling and Marking:

- Reagents must be placed in strong tight metal container(s), e.g., 10-, 30-. or 55-gallon drums.
- Insert packing material must be used to separate individual containers within the overpack, eg. Kitty Litter or Vermiculite.
- The DOT Hazard Class label (oxidizer) must be applied to the lab pack containing sodium nitrite.
- A weatherproof listing of the reagents must be applied to the overpack; e.g., a protected cutout of the reagent data information which includes shipping name, DOT identification and Disposal Analysis number 6-9 may be fixed to to each overpack.
- Mark on the overpack lid "This side up".
- Mark the weight of the drum if drum exceeds 110 lbs.
- Mark a package identification number which correlates with the Hazardous Waste Manifest information.

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Oxidizer	1	Sodium Nitrite	D003	UN1500	Oxidizer	18	fiberboard	1 drum
ORM-E	2	Nickel, hydrated	NA	NA9140	None	10	plastic bags	10 lbs

Rockwell Hanford Operations
Energy Systems Group
P.O. Box 800
Richland, WA 99352

Rockwell International

In reply refer to letter R84-2063

JUN 13 1984

Ms. J. M. Hobbs
Development Engineer
Laboratory Safety Department
Pacific Northwest Laboratory
P. O. Box 999
Richland, Washington 99352

Dear Ms. Hobbs:

APPROVED DISPOSAL REQUEST 6-9 (PNL-83-026)

Reference: Application to Dispose of Non-Radioactive Hazardous Waste, November 1, 1984, J. M. Hobbs

Rockwell Hanford Operations (Rockwell) has completed review of the referenced Disposal Request for bulk useless chemicals. The disposal methods for these wastes are prescribed on the attached Disposal Request Analysis.

All packaging, labeling and marking of waste reagents shall be completed in accorandance with Department of Transportation (DOT) regulations (49 CFR 171-179). A Hazardous Waste Manifest is required to accompany all waste shipments in accordance with 40 CFR 263.

Arrangements for transporting onsite disposal packages directly to the Hanford Non-Radioactive Hazardous Waste Disposal Trench is a generator responsibility and may by implemented upon compliance with the stated disposal request instructions and Hazardous Waste Manifest requirements.

Inspection by Rockwell of package content and integrity will be made as required to certify waste is disposed of in the manner described in the burial analysis. Failure to package in the manner described in the burial analysis will result in suspension of disposal provileges by the offending facility.

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9112221312777

DATE JUN 13 1984

Rockwell International

Should you require further assistance regarding the disposition of wastes listed on Disposal Request 6-9, please contact me on 3-3516.

Very truly yours,

H. C. Boynton, Engineer
Solid Waste Processing & Disposal Unit

HCB/njb

Att.

cc: G. C. Cox - Rockwell, w/att
A. D. Poor - Rockwell, w/att

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

PNL-83-026

6-9

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT, 202-S/200 West, Rockwell

A. Generator's Name: Jeene Hobbs Phone: 6-1631 Address: 3782/300 Area Company: PNL

B. Custodian's Name: Bill Rossitor Phone: 6-5946 Address: 325/300 Area Company: PNL

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1 Sodium nitrite	18 drums	DOT-17H-55	18	X			Oxidizer
x (the chemical is in fiberboard drums. They have been put inside the 55 gal metal							
x ones.)							
2 x Nickel, hydrated		DOT-17H-55	10	X			
x (The chemical is in plastic bags app 100#. These bags are being put into a lined							
metal drum. The liner is probably 4 or 8 mil poly.)							

D. Have appropriate labels been affixed to containers? Not required Labels will be applied as necessary.

E. Have efforts been made to recycle (e.g., excess) waste? yes

F. Has waste been treated in any manner? no If so, how?

G. Storage Location: JA Jones lot/3000Area Contact Rossitor for exact location

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number:

Generator's Signature: Jeene Hobbs Jeene M Hobbs Date: 1 November 83

II. APPROVAL

A. Approved for disposal by Name: H. C. Boynton Phone: 3-3516 Address 2750-F Co.: Rockwell

Date: 6/11/84 Signature: DD Miller for HB

B. Packaging Requirements (specify): Refer to disposal analysis 6-9

C. Disposal Location: X Chemical Trench, Asbestos Trench,

(check one) 212-P (Storage), Other

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: Phone: Address: Company

B. Date Transported/Disposed:

C. Transporter(s) Signature:

000082

9 1 1 2 2 1 3 1 2 7 9

BC-6700-174.1 (N-1-82)

On Friday, November trench #19-N, the Oxidizer Trench at the Central Landfill was excavated in order to remove drums containing sodium nitrite. All other waste drums previously manifested to this trench were also removed. The following information is to be attached to each hazardous waste manifest which was affected by the excavation.

Manifest #	Status of Waste Drums After Trench Excavation:
RHO-13-33	Drums disposed to trash trench, central landfill.
PNL-7-23	Drums were returned back to oxidizer trench.
UNC-12-158	Drums were returned back to oxidizer trench.
RHO-5-31	13 drums of sodium nitrite were not located in the oxidizer trench. It is assumed that burial took place in the corrosive trench, since the manifest gives a disposal date to the chemical trench.
RHO-13-9	Drums were disposed to trash trench, central landfill.
RHO-11-29	Drums were disposed to trash trench, central landfill.
RHO-13-5	Drums were disposed to trash trench, central landfill.
RHO-11-3	Drums were disposed to trash trench, central landfill.
PNL-7-25	2 lab packs in this disposal request were not located in the oxidizer trench. It is assumed that past burial occured in the corrosive trench, since the manifest shows disposal in the chemical trench.
RHO-10-31	Drums were disposed to trash trench, central landfill.
PNL-6-9	18 Drums of sodium nitrite were transported to the 2727-S storage facility/200 West because of their EHW designation. For the 10 drums of hydrated nickel listed on the manifest, status is: 1 drum was also transported to 2727-S, for storage (EHW because of carcinogenic waste designation). At time of transport drum was not known.* The hydrated nickel drum was opened at 2727-S for clear identification. The other 9 drums of hydrated nickel were not found in the oxidizer trench. It is assumed they were buried in the corrosive trench.
RHO-9-33	Drums redisposed to the oxidizer trench.
PNL-5-17	Drums were disposed to trash trench, central landfill.

*PNL-6-9: One drum of hydrated nickel was labeled: "Flammable solid", and what looked like "Dangerous When Wet" (the latter label was not clearly legible).

DISPOSAL PACKET NUMBER

P84-061

HAZARDOUS WASTE MANIFEST

STRAIGHT BILL OF LADING

ORIGINAL - NOT NEGOTIABLE

MANIFEST DOCUMENT NUMBER

PNL-M-84-005 ~~7-41~~ 7/25 44

This document refers to disposal request #PNL-84-007
RHO approved disposal request #7-25

TO:	FROM:
T/S/D FACILITY Rockwell Hanford Operations	Generator Battelle - PNL
E.P.A. ID Code No. WA-89-000-8967	E.P.A. ID Code No. WA-89-000-8967
Address Richland, WA	Address Richland, WA
Destination Central Landfill & 2727S	Origin 329 Building/300 Area
Phone Harlan Boynton 373-3516	Phone Jeene Hobbs 376-1631

Shipping Units	Proper Shipping Name	Hazard Class	No.	Type	Weight	Labels Required (or Exemption No.)
#1	Waste Flammable Liquid Lab Pack	Flammable Liquid			260#	flammable li
#2	Hazardous Waste N.O.S.	ORM-E			275#	Hazardous waste
#3	Waste Corrosive Liquid labpack	Corrosive material			360#	Corrosive
#4	Waste Flammable Liquid Labpack	Flammable liquid			170#	Flammable li
	NOTE: #1 & #2 go to the Central Landfill Chemical Trench; #3 & #4 go to 2727S					
	Chem Trench				2727-S	

PLACARDS REQUIRED none

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED subject to the classifications and lawful tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)	EMERGENCY RESPONSE INFORMATION
T/S/D FACILITY 2727S	CONTACT Name Single Point Contact
E.P.A. ID Code No.	Phone 375-2400
Address	National Response Center 1-800-424-8802
Destination	in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature Jeene Hobbs Jeene M Hobbs Date _____

TRANSPORTER #1 Hilliothy W Tobey E.P.A. ID No. _____
Address 1100 Kaiser 1171 Stilly
City Richland State Wa Zip 99352 Phone 375-3560

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature Timothy Tobey Date 8-23-84

TRANSPORTER #2 ✓ E.P.A. ID No. _____
Address _____
City _____ State _____ Zip _____ Phone _____

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT, STORAGE, DISPOSAL FACILITY

000108

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature [illegible] Date [illegible] 1984

ORIGINAL - RETURN TO GENERATOR

Rockwell Hanford Operations
Energy Systems Group
P.O. Box 800
Richland, WA 99352

Rockwell International

In reply refer to letter R84-2065

[illegible] 12 '84

Ms. J. M. Hobbs
Development Engineer
Laboratory Safety Department
Pacific Northwest Laboratory
P. O. Box 999
Richland, Washington 99352

Dear Ms. Hobbs:

APPROVED DISPOSAL REQUEST: 7-25 (PNL-84-007)

Reference: Application to Dispose of Non-Radioactive Hazardous Waste, February 7, 1984, J. M. Hobbs

Rockwell Hanford Operations (Rockwell) has completed review of the Reference Disposal Request for liquid waste. The accepted disposal method for these wastes is prescribed on the attached Disposal Request Analysis.

The packaging, labeling, and marking of waste reagents shall be [illegible] in accordance with Department of Transportation (DOT) regulations 49 CFR 171-179. A Hazardous Waste Manifest is required to accompany all waste shipment in accordance with 40 CFR 263.

Arrangements for transporting onsite disposal packages directly to the Hanford Non-Radioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented upon compliance with the stated disposal requires instructions and Hazardous Waste Manifest requirements.

Inspection by Rockwell of package content and integrity will be made as required to certify waste is disposed of in the manner described in the burial analysis. Failure to package in the manner described in the burial analysis will result in suspensions of disposal privileges by the offending facility.

000109

Rockwell International

Should you require further assistance regarding the disposition of wastes listed on Disposal Requests 7-25, please contact me on 3-3516.

Very truly yours,

H. C. Boynton, Engineer
Solid Waste Processing & Disposal Unit

HCB/njb

Att.

cc: ~~J. D.~~ Poor - RHO, w/att
G. C. Cox - RHO, w/att

000110

Disposal Analysis

I. ONSITE DISPOSAL

Waste reagents listed in this section are to be properly packaged and manifested for disposal at the Hanford Non-Radioactive Hazardous Waste Chemical Trench.

Chemicals in the same "Compatible Group" as listed on the disposal analysis may be placed in a common overpack.

Instructions for Packaging, Labeling and Marking the overpacks is provided on the last page of the Disposal Analysis.

II. OFFSITE DISPOSAL

Waste reagents listed in this section are "Extremely Hazardous Waste" (EHW) and are to be properly packaged and manifested for shipment to an offsite disposal facility in accordance with state of Washington law (chapter 173-303 WAC). The Hanford generator has the responsibility for packaging and shipment of EHW to the offsite staging facility 2727-S/200W. Offsite disposal shipments originating from 2727-S will be organized by Rockwell.

Chemicals in the same "Compatible Group" as listed on the disposal analysis may be placed in a common overpack. Instruction for Packaging, Labeling, and Marking each overpack is provided on the last page of the Disposal Analysis.

Instructions for Packaging, Labeling, and Marking overpacked reagents for both onsite and offsite disposal.

- Reagents must be placed in strong-tight metal containers e.g., 10, 30, 55 gallon metal drums.
- Inert packing material must be used to separate individual containers within the overpack, e.g., Kitty Litter or Vermiculite.
- The DOT Hazard class label(s) must be applied to the overpack.
- A weather proof listing of the reagents must be applied to the overpack. e.g., a protected cut out of the above information which includes shipping name and identification may be fixed to the overpack.
- Mark on the overpack lid "This side up".
- Mark the weight of the overpack if the drum exceeds 110 lbs.
- Mark a package identification number which correlates with the Manifest information.
- Item 2 of the Disposal Analysis should be packaged separately in a 55-gallon 17H steel drum. Void spaces should be filled in also.

Disposal Analysis 7-25

ONSITE DISPOSAL

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Compatibility Group A								
"Flammable Liquid"	6	Ammonium Sulfide	D001	UN2683	Flammable Liquid	7	Glass	1 pt
"	10	Ethylacetate	U112	UN1173	"	1	Glass	1 pt
"	11	Hexone	U161	UN1993	"	4	Glass	1/2 gal
"	15	Butylalcohol	U031	NA1120	"	1	Glass	6 pt
"	21	Collodion	D001	NA2059	"	4	Glass	1 qt
"	23	Hexone	U161	UN1993	"	2	Glass	1 qt
"	27	Amyl Acetate	D001	UN1104	"	12	Glass	1 pt
"	28	Ethyl Acetate	U112	UN1173	"	3	Glass	1 pt
"	30	Methylethyl Ketone	U159	UN1193	"	1	Glass	3 kg
"	32	Hexone	U161	UN1993	"	1	Glass	1 pt
"	33	Tetrahydrafuran	U213	UN2056	"	1	Glass	1 qt
Compatibility Group B								
"	4	Perchloric acid 70%	D003	UN1873	Oxidizer	7	Glass	1 pt
"	7	Hydrogen peroxide 30%	D003	UN2014	"	7	Glass	1 pt

000113

Disposal Analysis 7-25

ONSITE DIPSOAL

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Compatibility Group C								
ORM-A	14	Dichloromethane	NA	UN1593	None	1	metal	5 gal
ORM-E	20	Bis(2-ethylhexyl)2-hexylphosphonate	NA	NA9189	"	1	Glass	1 qt
"	34	Hazardous waste liquid N.O.S. (Mono-2-ethyl hexyl acid orthophosphate)	NA	NA9189		1	Glass	1 qt
Combustible liquid	9	Combustible liquid N.O.S. (Glycerine)	NA	NA1993	"	1	Glass	1 pt
"	16	Combustible liquid N.O.S. (Octylalcohol)	NA	"	"	2	Glass	1 kg
"	17	Combustible liquid N.O.S. (Isopentyl alcohol)	NA	"	"	1	Glass	5 L.
"	19	Combustible liquid N.O.S. (Acetyl acetone)	NA	"	"	1	Glass	1 qt
"	25	Combustible liquid N.O.S. (Dimethyl formamide)	NA	"	"	1	Glass	1 gal
"	26	Combustible liquid N.O.S. (Hexanol)	NA	"	"	1	Glass	1 L.
Nonregulated	8	Lactic Acid	NA	"	"	1	Glass	5 lbs
"	22	Diisopropyl ketone	NA	"	"	1	Glass	1 qt
Packaged Separately								
Corrosive	2	Sulphuric Acid 9L	D002	UN1830	Corrosive	13	Plastic	1 gal

000113

Disposal Analysis 7-25 (EHW)

OFFSITE DISPOSAL

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Compatible Group F								
Flammable liquid''	24	Acetonitrile	U003	NA1648	Flammable liquid	2	Glass	1 qt
"	29	Cyclohexane	U056	UN1145	"	2	Glass	1 pt
Compatible Group G								
Corrosive liquid	1	Hydrofluoric acid sln. (48%)	U134	UN1790	Corrosive	6	Plastic	1 gal
"	3	Formic acid sln. (85%)	U123	UN1779	Corrosive	9	Glass	1 pt
Compatible Group H								
ORM-A	5	Formaldehyde	U122	UN2209	None	9	Glass	1 pt
"	12	1,1,1-Trichloroethylene	U228	UN1710	None	1	Metal	5 gal
ORM-E	18	Cyclohexanone	U057	NA9189	None	2	Glass	1 qt
ORM-A	31	Chloroform	U044	UN1888	None	1	Glass	1 gal

000115

A

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

7-25

PNL-84-007

I. GENERATION: The Generator should complete Part I and forward this form to: WS&DT, 202-S/200 West, Rockwell

A. Generator's Name: Jeene Hobbs Phone: 6-1631 Address: 3762/300 Area Company: PNL

B. Custodian's Name: Art Bruce Phone: Address: 329/300 Area Company: PNL

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1 Hydrofluoric Acid 48%	6 gal	plastic	6		X		
2 Sulfuric Acid 93%	13 gal	plastic	13		X		
3 Formic Acid 85%	9 pt		9		X		
4 Perchloric Acid 70%	7 pt	glass	7		X		
5 Formaldehyde 37%	9 pt	glass	9		X		

D. Have appropriate labels been affixed to containers? Not required Lab packs will be labeled as required.

E. Have efforts been made to recycle (e.g., excess) waste? yes

F. Has waste been treated in any manner? no If so, how?

Other: 329/300 Area will be moved to 332 for packaging

G. "To the best of my knowledge, waste has been released to Radiation Monitoring Laboratory for Free Release and is not contaminated." Survey Card Number:

Name and Signature: Jeene Hobbs Date 7-7-84

II. APPROVAL

A. Approved by: H. C. Boynton Phone 3-3516 Address 2750-E Co. Rockwell

Date 6/11/84 Signature: H. C. Boynton

B. Packaging Requirements (specify): Refer to Disposal Analysis 7-25

C. Disposal Location (check one): X Chemical Trench, Asbestos Trench, 212-P (Storage), X Other 2727-S

III. TRANSPORTATION/DISPOSAL

Transporter's Name: Phone: Address: Company:

A. Date Transported/Disposed:

000116

9112221812690

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol	Liq.	Gas	Hazard Class
6. Ammonium sulfide	7 pt	glass	7		X		
7. Hydrogen peroxide 30%	7 pt	glass	7		X		
8. Lactic Acid	5#	glass	1		X		
9. glycerine	1 pt	glass	1		X		
10. Ethyl acetate	1 pt	glass	1		X		
11. Methyl isobutyl ketone	2 1/2 gal	glass	4		X		
12. 1,1,1-Trichloroethylene	5 gal	metal	1		X		
13. Diffusion pump oil	1 gal	metal	1		X		
14. Methylene chloride	5 gal	metal	1		X		
15. 1-Butanol	6 pt	glass	1		X		
16. Octyl alcohol	2 kg	glass	2		X		
17 iso-pentyl alcohol	5 l	glass	1		X		
18. Cyclohexanone	2 qt	glass	2		X		
19 2,4-pentanedione	1 qt	glass	1		X		
20 Bis(2-ethylhexyl)2-hexylhexanoate	1 qt	glass	1		X		
21 Collodian	4 qt	glass	4		X		
22 diisopropyl ketone	1 qt	glass	1		X		
23 4-methyl 2-pentanone	2 qt	glass	2		X		
24 Acetonitrile	4 pt	glass	4		X		
25 Dimethylformamide	1 gal	glass	1		X		
26. Hexanol	1 l	glass	1		X		
27 Amyl acetate	12 pt	glass	12		X		
28. Ethyl acetate	3 pt	glass	3		X		
29. Cyclohexane	2 pt	glass	2		X		
30 2-Butanone	3 kg	glass	1		X		
31 Chloroform	1 gal	glass	1		X		
32 Hexone	1 pt	glass	1		X		
33 Tetrahydrofuran	1 qt	glass	1		X		
34 Mono-2-ethylhexyl acid phosphate	1 qt	glass			X		

WASTE DESCRIPTION

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Corrosive	* 1	Hydrofluoric acid (48%)	U134	UN1790	Corrosive	6	Plastic	1 gal
"	2	Sulfuric acid 93%	D002	UN1830	"	13	Plastic	1 gal
"	* 3	Formic Acid sln.	U123	UN1779	"	9	Glass	1 pt
Oxidizer	4	Perchloric acid 70%	D003	UN1873	Oxidizer	7	Glass	1 pt
ORM-A	* 5	Formaldehyde	U122	UN2209	None	9	Glass	1 pt
Flammable liquid	6	Ammonium sulfide	D001	UN2683	Flammable liquid	7	Glass	1 pt
Oxidizer	7	Hydrogen peroxide 30%	D003	UN2014	Oxidizer	7	Glass	1 pt
Non-regulated	8	Lactic acid	NA			1	Glass	5 lbs
Non-regulated	9	Glycerine	NA		Flammable liquid	1	Glass	1 pt
Flammable liquid	10	Ethyl acetate	U112	UN1173	Flammable liquid	1	Glass	1 pt
Flammable liquid	11	Methyl Isobutyl ketone	U161		Flammable liquid	4	Glass	1/2 gal
ORM-A	*12	1,1,1 - Trichloroethylene	U228	UN1710	None	1	Metal	5 gal
ORM-E	13	Diffusion pump oil		UN2315	None	1	Metal	1 ga
ORM-A	14	Dichloromethane		UN1593	None	1	Metal	5 gal
Flammable liquid	15	Butyl alcohol	U031	NA1120	Flammable liquid	1	Glass	6 pt
Non-regulated	16	Octyl Alcohol				2	Glass	1 kg
Non-regulated	17	Iso-pentyl alcohol				1	Glass	5 L.
ORM-L	*18	Hazardous Waste Cyclohexanone	U057	NA9189		2	[illegible]	[illegible]

00011 (2)

WASTE DESCRIPTION

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Non-regulated	19	Acetyl acetone				1	Glass	1 qt
ORM-E	20	Bis(2-ethylhexyl)2 hexylphosphonate	NA	NA9189		1	Glass	1 qt
Flammable liquid	21	Collodion	D001	NA2059	Flammable liquid	4	Glass	1 qt
Non-regulated	22	Diisopropyl ketone				1	Glass	1 qt
Flammable liquid	23	Fl. Liq. N.O.S. methylisobutyl ketone	U161	UN1993	Flammable liquid	2	Glass	1 qt
Flammable liquid	*24	Acetonitrile	U003	NA1648	"	4	Glass	1 pt
Non-regulated	25	Dimethylformamide				1	Glass	1 gal
Non-regulated	26	Hexanol				1	Glass	1 liter
Flammable liquid	27	Amyl Acetate	D001	UN104	Flammable liquid	12	Glass	1 pt
"	28	Ethyl Acetate	U112	UN1173	"	3	Glass	1 pt
"	*29	Cyclohexane	U056	UN1145	"	2	Glass	1 pt
"	30	Methyl Ethyl ketone	U159	UN1193	"	1	Glass	3 kg
ORM-A	*31	Chloroform	U044	UN1888	"	1	Glass	1 gal
Flammable liquid	32	Hexone	U161	UN1993	"	1	Glass	1 pt
"	33	Tetrahydrafuran	U213	UN2056	"	1	Glass	1 qt
ORM-A	34	Hazardous Waste N.O.S. Mono-2 ethylhexyl	UN1693	NONE	"	1	Glass	1 qt

On Friday, November 9th, 85 trench #19-N, the Oxidizer Trench at the Central Landfill was excavated in order to remove drums containing sodium nitrite. All other waste drums previously manifested to this trench were also removed. The following information is to be attached to each hazardous waste manifest which was affected by the excavation.

Manifest #	Status of Waste Drums After Trench Excavation:
RHO-13-33	Drums disposed to trash trench, central landfill.
PNL-7-23	Drums were returned back to oxidizer trench.
UNC-12-15B	Drums were returned back to oxidizer trench.
RHO-5-31	13 drums of sodium nitrite were not located in the oxidizer trench. It is assumed that burial took place in the corrosive trench, since the manifest gives a disposal date to the chemical trench.
R-C-[illegible]-9	Drums were disposed to trash trench, central landfill
R-C-[illegible]-3	Drums were disposed to trash trench, central landfill
R-C-[illegible]-5	Drums were disposed to trash trench, central landfill
RHO-[illegible]-3	Drums were disposed to trash trench, central landfill.
PNL-7-35	2 lab packs (designated for Chem. Trench) in this disposal request were not located in the oxidizer trench. It is assumed that cast burial occured in the corrosive trench, since the manifest shows disposal in the chemical trench
R-C-[illegible]-1	Drums were disposed to trash trench, central landfill
PNL-[illegible]	3 drums of sodium nitrite were transported to the 2727-S storage facility/200 West because of their E-W designation. For the 10 drums of hydrated nickel listed on the manifest, status is: 1 drum was also transported to 2727-S, for storage (EHW because of carcinogenic waste designation). At time of transport drum was not known. The hydrated nickel drum was opened at 2727-S for clear identification. The other 1 drums of hydrated nickel were not found in the oxidizer trench. It is assumed they were buried in the corrosive trench.
RHO-9-33	Drums redisposed to the oxidizer trench
PNL-5-17	Drums were disposed to trash trench, central landfill.

DON'T SAY IT --- *Write It!*

DATE Aug 21, 1984

TO Harlan

FROM Jeene

Re: PNL-84-007 (RHO 7-25) manifest# PNL-M-84-005

These chemicals should be coming your way soon. Attached is a highlited copy of your disposal approval. The chemicals in pink will be in this shipment. The chemicals in yellow were blown up by the Richland Bomb Squad. The chemical in green will be packaged with other hydrogen peroxide that I have. The chemicals with no highlite have been used up prior to my packaging for disposal.

"TO MAKE LIFE LAST, PUT SAFETY FIRST"

9112231295

Disposal Analysis 7-25

ONSITE DISPOSAL

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Compatibility Group A								
Flammable Liquid	6	Ammonium Sulfide	D001	UN2683	Flammable Liquid	7	Glass	1 pt
" "	10	Ethylacetate	U112	UN1173	"	1	Glass	1 pt
" "	11	Hexone	U161	UN1993	"	4	Glass	1/2 gal
" "	15	Butylalcohol	U031	NA1120	"	1	Glass	6 pt
" "	21	Collodion	D001	NA2059	"	4	Glass	1 qt
" "	23	Hexone	U161	UN1993	"	2	Glass	1 qt
" "	27	Amyl Acetate	D001	UN1104	"	12	Glass	1 pt
" "	28	Ethyl Acetate	U112	UN1173	"	3	Glass	1 pt
" "	30	Methylethyl Ketone	U159	UN1193	"	1	Glass	3 kg
" "	32	Hexone	U161	UN1993	"	1	Glass	1 pt
" "	33	Tetrahydrafuran	U213	UN2056	"	1	Glass	1 qt
Compatibility Group B								
" "	4	Perchloric acid 70%	D003	UN1873	Oxidizer	7	Glass	1 pt
" "	7	[redacted] 30%	D003	UN2014	"	7	Glass	1 pt

00122

Disposal Analysis 7-25

ONSITE DIPSOAL

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Compatibility Group C								
ORM-A	14	Dichloromethane	NA	UN1593	None	1	metal	5 gal
ORM-E	20	Bis(2-ethylhexyl)2-hexylphosphonate	NA	NA9189	"	1	Glass	1 qt
"	34	Hazardous waste liquid N.O.S. (Mono-2-ethyl hexyl acid orthophosphate)	NA	NA9189		1	Glass	1 qt
Combustible liquid	9	Combustible liquid N.O.S. (Glycerine)	NA	NA1993	"	1	Glass	1 pt
"	16	Combustible liquid N.O.S. (Octylalcohol)	NA	"	"	2	Glass	1 kg
"	17	Combustible liquid N.O.S. (Isopentyl alcohol)	NA	"	"	1	Glass	5 L.
"	19	Combustible liquid N.O.S. (Acetyl acetone)	NA	"	"	1	Glass	1 qt
"	25	Combustible liquid N.O.S. (Dimethyl formamide)	NA	"	"	1	Glass	1 gal
"	26	Combustible liquid N.O.S. (Hexanol)	NA	"	"	1	Glass	1 L.
Nonregulated	8	Lactic Acid	NA	"	"	1	Glass	5 lbs
"	22	Diisopropyl ketone	NA	"	"	1	Glass	1 qt
Packaged Separately								
Corrosive	2	Sulphuric Acid 91%	D002	UN1830	Corrosive	13	Plastic	1 gal

Disposal Analysis 7-25 (EIW)

OFFSITE DISPOSAL

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Compatible Group F								
Flammable liquid	24	Acetonitrile	U003	NA1648	Flammable liquid	2	Glass	1 qt
"	29	Cyclohexane	U056	UN1145	"	2	Glass	1 pt
Compatible Group G								
Corrosive liquid	1	Hydrofluoric acid sln. (48%)	U134	UN1790	Corrosive	6	Plastic	1 gal
"	3	Formic acid sln. (85%)	U123	UN1779	Corrosive	9	Glass	1 pt
Compatible Group H								
ORM-A	5	Formaldehyde	U122	UN2209	None	9	Glass	1 pt
"	12	1,1,1-Trichloroethylene	U228	UN1710	None	1	Metal	5 gal
ORM-E	18	Cyclohexanone	U057	NA9189	None	2	Glass	1 qt
ORM-A	31	Chloroform	U044	UN1888	None	1	Glass	1 gal

HAZARDOUS WASTE MANIFEST

THIS SHIPPING ORDER must be legibly filled in, in ink, in indelible Pencil, or in Carbon, and retained by the Agent.

MANIFEST DOCUMENT NUMBER

PNL-M-84-005

This document refers to disposal request #PNL-84-007
RHO approved disposal request #7-25

TO:	FROM:
T/S/D FACILITY Rockwell Hanford Operations	Generator Battelle - PNL
E.P.A. ID Code No. WA-89-000-8967	E.P.A. ID Code No. WA-89-000-8967
Address Richland, WA	Address Richland, WA
Destination Central Landfill & 2727S	Origin 329 Building/300 Area
Phone Harlan Boynton 373-3516	Phone Jeene Hobbs 376-1631

No. Shipping Units	DOT PROPER SHIPPING NAME	HAZARD CLASS	Haz. Mat. ID No.	EPA Haz Waste No.	WEIGHT	LABELS REQUIRED (or Exemption No.)
#1	Waste Flammable Liquid Lab Pack	Flammable Liquid			260#	flammable li
#2	Hazardous Waste N.O.S.	ORM-E			275#	Hazardous waste
#3	Waste Corrosive Liquid labpack	Corrosive material			360#	Corrosive
#4	Waste Flammable Liquid Labpack	Flammable liquid			170#	Flammable li
	NOTE: #1 &#2 go to the Central Landfill Chemical Trench: #3 & #4 go to 2727S					

PLACARDS REQUIRED none

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding
$ _____ Per _____

FREIGHT CHARGES
PREPAID ☐ COLLECT ☐

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classifications and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY 2727S
E.P.A. ID Code No. _____
Address _____
Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name 37 Single Point Contact
Phone 375-2400

National Response Center 1-800-424-8802
in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature Jeene Hobbs [signature] Date _____

TRANSPORTER #1 [illegible] E.P.A. ID No. _____
Address _____
City _____ State _____ Zip _____ Phone _____

Transporter No. 1 This is to certify acceptance of the hazardous waste shipment.
Signature [signature] Date 2-3-84

TRANSPORTER #2 _____ E.P.A. ID No. _____
Address _____
City _____ State _____ Zip _____ Phone _____

Transporter No. 2 This is to certify acceptance of the hazardous waste shipment.
Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

T/S/D FACILITY This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.
Signature [signature] Date [illegible]

TRANSPORTER #2 COPY 000370

9112221299

HAZARDOUS WASTE MANIFEST

THIS SHIPPING ORDER must be legibly filled in, in ink, in Indelible Pencil, or in Carbon, and retained by the Agent.

MANIFEST DOCUMENT NUMBER

PNL-M-84-005

This document refers to disposal request #PNL-84-007
RHO approved disposal request #7-25

TO:	FROM:
T/S/D FACILITY Rockwell Hanford Operations	Generator Battelle - PNL
E.P.A. ID Code No. WA-89-000-8967	E.P.A. ID Code No. WA-89-000-8967
Address Richland, WA	Address Richland, WA
Destination Central Landfill & 2727S	Origin 329 Building/300 Area
Phone Harlan Boynton 373-3516	Phone Jeene Hobbs 376-1631

No. Shipping Units	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Other Mat. I.D. No.	EPA Haz Waste No.	WEIGHT	LABELS REQUIRED (or Exemption No.)
#1	Waste Flammable Liquid Lab Pack	Flammable Liquid			260#	flammable li
#2	Hazardous Waste N.O.S.	ORM-E			275#	Hazardous waste
#3	Waste Corrosive Liquid labpack	Corrosive material			360#	Corrosive
#4	Waste Flammable Liquid Labpack	Flammable liquid			170#	Flammable li
	NOTE: #1 &##2 go to the Central Landfill Chemical Trench; #3 & #4 go to 2727S					

PLACARDS REQUIRED none

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding
$ _____ Per _____

FREIGHT CHARGES PREPAID ☐ COLLECT ☐

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY 2727S
E.P.A. ID Code No. _____
Address _____
Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name 37 Single Point Contact
Phone 375-2400
National Response Center 1-800-424-8802
in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature Jeene Hobbs Jeene M Hobbs Date _____

TRANSPORTER PO Box 1171 Sitz & E.P.A. ID No. _____
Address Kiehland
City _____ State _____ Zip _____ Phone _____

Transporter No. 1 This is to certify acceptance of the hazardous waste shipment.
Signature _____ Date 8-23-84

TRANSPORTER #2 _____ E.P.A. ID No. _____
Address _____
City _____ State _____ Zip _____ Phone _____

Transporter No. 2 This is to certify acceptance of the hazardous waste shipment.
Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

T/S/D FACILITY This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.
Signature D E Phelps Date 8-23-84

TRANSPORTED #1 COPY

000371

Battelle
Pacific Northwest Laboratories

Project Number _____

Internal Distribution

JMH - File/LB

Date August 27, 1984

To Leonard Lust

From Jeene Hobbs Jeene

Subject CHEMICAL DISPOSAL

Disposal request approval for #PNL-84-004, 25# of ether, is no longer needed. This chemical plus 6 quarts of tetrahydrofuran and 7 pints of perchloric acid from #PNL-84-007, 1/2 pint of perchloric acid from #PNL-83-020, and 4500 mL of 2-butoxyethanol from #PNL-83-014 were exploded by the Richland Bomb Squad on August 16, 1984. This information is provided to help you update your records.

If you have any questions, please contact me on 376-1361.

/slw

000461

94-1000-001 (3-71)

DISPOSAL PACKET NUMBER

P84-062

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE / 11-1

GENERATION: The Generator should complete Part I and forward this form to: ~~WSCDT~~ SWP&D ~~202-3/200 West~~ 2750E/200E Rockwell

A. Generator's Name: Westinghouse Phone: _____ Address: _____ Company: _____

B. Custodian's Name: R. D. Hensyel Phone: 6-3743 Address: 300 Area Company: Westinghouse

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. HN Hydroxylamanenitrate	Empty	55 gal.	16				Corrosive
2. Castic Soda	Empty	55 gal.	~~4~~ 3				Corrosive
3. Open Tep Drums	Empty	55 gal.	6 7				Contained Sand
4. Union Turbine Oil	Empty	55 gal.	2				Flammable ?
5. Cutting Fluid	Empty	55 gal.					

D. Have DOT waste labels been affixed to containers? Yes

E. Have efforts been made to recycle (e.g., excess) waste? _____

F. Has waste been treated in any manner? _____ If so, how?

G. Storage Location: 300 Area Boneyard

H. "I hereby certify that this material has been released by Radiation been completed to the best of my knowledge." Survey Card No

RADIATION RELEASE

BUILDING Bone Yard DATE 8-23-84

RELEASED BY E. Hensyel
RADIATION MONITORING

Hanford Engineering Development Laboratory

BD-7200-051 (11-78)

Generator's Signature: RDHensyel Date: 8-13-84

II. APPROVAL

A. Approved for disposal by Name: L. F. Lust Phone: 3-4106 Address 2750 E Co.: RHO

Date: 8-21-84 Signature: L. F. Lust

B. Packaging Requirements (specify): See Disposal Analysis 11-1

C. Disposal Location: See Disposal Analysis 11-1 (check one) Chemical Trench, _____ Asbestos Trench, _____ 212-P (Storage), _____ Other

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: Timothy W Tobey Phone: 376-8260 Address: 1100 Arlot Company RHO

B. Date Transported/Disposed: 8-29-84 H E Fisher

C. Transporter(s) Signature: Timothy Tobey

BC-6700-174.1 (06-14-8)

000231

9112221303

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE / 11-1

GENERATION: The Generator should complete Part I and forward this form to: ~~WSCOT~~ SWPAD ~~202-S/200 West~~ 2750E/200E Rockwell

A. Generator's Name: Westinghouse Phone: _____ Address: _____ Company: _____

B. Custodian's Name: R. D. Hensyel Phone: 6-3743 Address: 300 Area Company: Westinghouse

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. HN Hydroxylamanenitrate	Empty	55 gal.	16				Corrosive
2. Castic Soda	Empty	55 gal.	~~4~~ 3				Corrosive
3. Open Tep Drums	Empty	55 gal.	~~6~~ 7				Contained Sand
4. Union Turbine Oil	Empty	55 gal.	2				Flammable
5. Cutting Fluid	Empty	55 gal.	4				Flammable

D. Have ~~the appropriate~~ Chemtron labels 6 been affixed to containers? Yes Not required _____ 10

E. Have efforts been made to recycle (e.g., excess) waste? Yes

F. Has waste been treated in any manner? _____ If so, how? <1 in. of fluid

G. Storage Location: 300 Area Boneyard

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this been completed to the best of my knowledge." Survey Card Number: day of loading ET 8-23-8 Survey #1

Generator's Signature: RDHensyel Date: 8-13-84

II. APPROVAL

A. Approved for disposal by Name: L. F. Lust Phone: 3-4106 Address 2750 E Co.: RHO

Date: 8-21-84 Signature: L. F. Lust

B. Packaging Requirements (specify): See Disposal Analysis 11-1

C. Disposal Location: See Disposal Analysis 11-1 (check one) Chemical Trench, _____ Asbestos Trench, _____ 212-P (Storage), _____ Other _____

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: Timothy W. Toberg Phone: 376-8266 Address: 100 Area Company: RHO

B. Date Transported/Disposed: 8-28-84 GE Fleiler

C. Transporter(s) Signature: Timothy Toberg

BC-6700-174.1 (Rev-1-4)

000232

9112241304

HAZARDOUS WASTE MANIFEST

STRAIGHT BILL OF LADING

ORIGINAL - NOT NEGOTIABLE

MANIFEST DOCUMENT NUMBER: WHC 84-002

TO: T/S/D FACILITY Rockwell Hanford	FROM: Generator Writing Lance Hanford
E.P.A. ID Code No. WA7210008967	E.P.A. ID Code No.
Address Richland	Address Richland
Destination Chemical Waste	Origin 200 Area
Phone 3-4106	Phone 6-3743

No.	Proper Shipping Name	Hazard Class	ID	Pkg.	Label	Labels Required for Transportation
16	Empty HN drums	Not Regulated	N/A	N/A	11-1	Empty
8	Empty Open tops drums	Not Regulated	N/A	N/A	11-1	Empty
2	Empty oil drums	Not Regulated	N/A	N/A	11-1	Empty
4	Empty Cutting oil drums	Not Regulated	N/A	N/A	11-1	Empty
3	Empty Sodium Hydroxide	Corrosive	UN 1824	D002	11-1	Empty Corrosive
10	Empty Paint thinner drums	~~Not Regulated~~ Flammable	~~N/A~~ UN1993	N/A	11-1 10-25A	Empty Flammable

PLACARDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ Per _____

FREIGHT CHARGES: PREPAID ☐ COLLECT ☐

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY _____

E.P.A. ID Code No. _____

Address _____

Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name L Lust

Phone 373-4106

National Response Center 1-800-424-8802

In D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature R D Hanford Date 8-23-84

TRANSPORTER #1 RHO Transportation E.P.A. ID No. WA7210008967

Address RHO 1100 Area

City Richland State Wa Zip _____ Phone 6-6654

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature Timothy W Johnson Date 8-23-84

TRANSPORTER #2 Timothy W Johnson E.P.A. ID No. _____

Address RHO 1100 Area 1171 Stedy

City Rich Wa State Wa Zip 99352 Phone 6-8866

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature D E Phelps Date 8-23-1984

ORIGINAL - RETURN TO GENERATOR

DC233

OUTGOING LTR. NO.
R84-3223
INCOMING LTR. NO.

REPLY DUE

DIST:	TYPE	ENCL.	APPR.
Ash, E.B.			
Bartholomew, D.C.			
Bellotto, M.			
Carey, J.M.			
Crawford, A.C.	✓		
Goodman, J.L.			
Di Pel, C.V.			
Goodloe, J.W.			
Gunsor, R.J.			
Grube, R.E.			
Hammond, R.D.			
Hanneman, R.E.			
Kinzer, J.E.			
Knight, B.E.			
Larson, M.P.			
[illegible], P.G.	✓		
[illegible], R.E.			
McDermott, R.J.			
Ogborne, L.R.			
Pascoe, R.J.			
Patterson, J.W.	✓		
Perkins, J.G.			
Reeser, A.L.			
Roecker, J.H.	✓		
Salmon, C.M.			
Weil, V.R.			
Zabe, L.L.			
Contract Administrator	✓		
Control Files	✓	✓	
DP [illegible]	✓	✓	✓
[illegible]	✓	✓	✓
[illegible]		✓	✓
GR [illegible]	✓	✓	
AD Poor	✓	✓	
DD Wheeler	✓		
WF Mp:mr	✓		
WA Hooper	✓		
DE Phelps	✓		

DATE SEP 12 1984

Rockwell Hanford Operations
Energy Systems Group
P.O. Box 800
Richland, WA 99352

Rockwell International

In reply, refer to letter R84-3223

SEP 12 1984

Mr. R. D. Hensyel
Engineering Services
Westinghouse Hanford Company
W/879 300 Area
Richland, Washington 99352

Dear Mr. Hensyel:

DISPOSAL REQUEST 11-1

Reference: Application to Dispose of Nonradioactive Hazardous Waste, R. D. Hensyel, August 13, 1984

Rockwell Hanford Operations (Rockwell) has completed review of referenced Disposal Request 11-1. The disposal method for these wastes is outlined on the attached "Disposal Analysis 11-1."

All packaging, labeling, and marking of the waste reagents shall be completed in accordance with the prescribed instructions which are based on Department of Transportation (DOT) Regulations 49 CFR 171-179. A Hazardous Waste Manifest is required to accompany all waste shipments in accordance with 40 CFR 263.

Arrangements for transporting waste materials directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented following compliance with Disposal Analysis 11-1 instructions and preparation of the Hazardous Waste Manifest.

Inspections by Rockwell of package content and integrity will be made as required to certify that the waste is prepared in the manner designated on Disposal Analysis 11-1. Failure to package in the manner described on Disposal Analysis 11-1 will result in suspension of disposal privileges for the offending facility.

9112221306

Rockwell International

Should you require further assistance regarding the disposition of wastes listed on Disposal Analysis 11-1, please contact me on 373-4802.

Very truly yours,

L. F. Lust
Solid Waste Processing & Disposal Unit

LFL:ra

Att.

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE 11-1

I. GENERATION: The Generator should complete Part I and forward this form to: ~~WSDOT~~ SWP&D ~~202-3/200 West~~ 2750E/200E Rockwell

A. Generator's Name: Westinghouse Phone: _____ Address: _____ Company: _____

B. Custodian's Name: R. D. Hensyel Phone: 6-3743 Address: 300 Area Company: Westinghouse

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. HN Hydroxylamanenitrate	Empty	55 gal.	16				Corrosive
2. Castic Soda	Empty	55 gal.	4				Corrosive
3. Open Top Drums	Empty	55 gal.	6				Contained Sand
4. Union Turbine Oil	Empty	55 gal.	2				Flammable ?
5. Cutting Fluid	Empty	55 gal.	4				Flammable ?

D. Have appropriate labels been affixed to containers? Yes Not required _____

E. Have efforts been made to recycle (e.g., excess) waste? Yes

F. Has waste been treated in any manner? _____ If so, how? <1 in. of fluid

G. Storage Location: 300 Area Boneyard

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: day of loading

Generator's Signature: RDHensyel Date: 8-13-84

II. APPROVAL

A. Approved for disposal by Name: L. F. Lust Phone: 3-4106 Address 2750 E Co.: RHO

Date: 8-21-84 Signature: L. F. Lust

B. Packaging Requirements (specify): See Disposal Analysis 11-1

C. Disposal Location: See Disposal Analysis 11-1 (check one) Chemical Trench, _____ Asbestos Trench, _____ 212-P (Storage), _____ Other

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: _____ Phone: _____ Address: _____ Company _____

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

000238

BC 6700-174.1 (N-1-82)

Disposal Analysis II-1

Onsite Disposal

Instructions for packaging, labeling and marking wastes for onsite disposal:

- Apply the appropriate DOT label, as indicated on page 2 of 2, to the drum.
- Mark the drum with the appropriate ID, as indicated on page 2 of 2.
- Notify Transportation of the appropriate disposal trench for each group of drums:

  Item 1 and 2 - Chemical Trench

  Item 3 - Trash Trench

  Item 4 and 5 - Construction Trench

DISPOSAL ANALYSIS 11-1

HAZARD CLASS	DISPOSAL ITEM NO.	DOT SHIPPING NAME	EPA NO.	DOT ID. NO.	DOT LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
				ONSITE DISPOSAL				
Not Regulated*	1	(HN Hydroxylamine)*	N/A	N/A	None	16	55 gal drum	Empty
Corrosive Material	2	Sodium Hydroxide	D002	UN1824	Corrosive	4	55 gal drum	Empty
Not Regulated	3	(sand drums)	N/A	N/A	None	6	55 gal drum	Empty
Not Regulated	4	(oil drums)	N/A	N/A	None	2	55 gal drum	Empty
Not Regulated	5	(cutting oil drums)	N/A	N/A	None	4	55 gal drum	Empty

*Not regulated in amount discarded.

HAZARDOUS WASTE MANIFEST

THIS SHIPPING ORDER must be legibly filled in, in ink, in indelible Pencil, or in Carbon, and retained by the Agent.

MANIFEST DOCUMENT NUMBER: WHC 84-002

TO:		FROM:	
T/S/D FACILITY	Rockwell Hanford	Generator	Westinghouse Hanford
E.P.A. ID Code No.	WA7800089967	E.P.A. ID Code No.	
Address	Richland	Address	Richland
Destination	Chemical Waste	Origin	300 Area
Phone	2-4106	Phone	6-3743

No. Containers	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	D.O.T. I.D. No.	EPA Haz Waste No.	WEIGHT	LABELS REQUIRED (or Exemption No.)
16	Empty HN drums	Not Regulated	N/A	N/A		Empty
8	Empty Open top drums	Not Regulated	N/A	N/A		Empty
2	Empty oil drums	Not Regulated	N/A	N/A		Empty
4	Empty Cutting oil drums	Not Regulated	N/A	N/A		Empty
3	Empty Sodium Hydroxide	Corrosive	UN 1824	D002		Empty Corrosive
10	Empty Paint thinner drums	~~Not Regulated~~ Flammable	UN1993 ~~N/A~~	N/A		Empty, Flammable

PLACARDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ _____ Per _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Signature of Consignor

FREIGHT CHARGES: PREPAID ☐ COLLECT ☐

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY _____
E.P.A. ID Code No. _____
Address _____
Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name L. Lust
Phone 372-4106

National Response Center 1-800-424-8802
In D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature [signature] Date 8-23-84

TRANSPORTER #1 RHO Transportation E.P.A. ID No. WA7800089967
Address RHO 1100 Area
City Richland State WA Zip _____ Phone 6-6654

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature [signature] Date [illegible]

TRANSPORTER #2 [illegible] E.P.A. ID No. _____
Address [illegible]
City RHO 1100 Area State WA Zip [illegible] Phone [illegible]

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature [signature] Date [illegible]

TRANSPORTER #2 COPY

7-8LS-C (6 PLY)

I. GENERATION: The Generator should complete Part I and forward this form to: ~~WSBDT~~ SWP&D ~~202-S/200 West~~ 2750E/200E Rockwell

A. Generator's Name: Westinghouse Phone: _____ Address: _____ Company: _____

B. Custodian's Name: R. D. Hensyel Phone: 6-3743 Address: 300 Area Company: Westinghouse

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. HN Hydroxylamanenitrate	Empty	55 gal.	16				Corrosive
2. Castic Soda	Empty	55 gal.	~~4~~ 3				Corrosive
3. Open Tap Drums	Empty	55 gal.	~~6~~ 7				Contained Sand
4. Union Turbine Oil	Empty	55 gal.	2				Flammable
5. Cutting Fluid	Empty	55 gal.	4				

D. Have DOT labels been affixed to containers? Yes (6) Not required _____ (10)

E. Have efforts been made to recycle (e.g., excess) waste? Yes

F. Has waste been treated in any manner? _____ If so, how? <1 in. of fluid

G. Storage Location: 300 Area Boneyard

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and th been completed to the best of my knowledge." Survey Card Number: day of loading

Generator's Signature: R D Hensyel Date: 8-13-84

II. APPROVAL

A. Approved for disposal by Name: L. F. Lust Phone: 3-4106 Address: 2750 E Co.: RHO

Date: 8-21-84 Signature: L. F. Lust

B. Packaging Requirements (specify): See Disposal Analysis 11-1

C. Disposal Location: See Disposal Analysis 11-1 (check one) Chemical Trench, _____ Asbestos Trench, _____ 212-P (Storage), _____ Other

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: Timothy W. Tobey Phone: 376-8260 Address: 1100 Wilcox Company: RHO

B. Date Transported/Disposed: 8-23-84 D. E. Fisher

C. Transporter(s) Signature: Timothy Tobey

BC-6700-174.1 (N-1-82)

000363

9112243312

000364

DISPOSAL ANALYSIS 11-1

DOT HAZARD CLASS	DISPOSAL ITEM NO.	(DOT) SHIPPING NAME	EPA NO.	DOT ID. NO.	DOT LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Not Regulated*	1	(HN Hydroxylamine)*	N/A	N/A	None	16	55 gal drum	Empty
Corrosive Material	2	Sodium Hydroxide	D002	UN1824	CORROSIVE	4	55 gal drum	Empty
Not Regulated	3	(sand drums)*	N/A	N/A	None	6	55 gal drum	Empty
Not Regulated	4	(oil drums)*	N/A	N/A	None	2	55 gal drum	Empty
Not Regulated	5	(cutting oil drums)*	N/A	N/A	None	4	55 gal drum	Empty

* Not regulated in amount discarded

HAZARDOUS WASTE MANIFEST

THIS SHIPPING ORDER must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent.

MANIFEST DOCUMENT NUMBER: WHC 84-002

TO:		FROM:	
T/S/D FACILITY	Rockwell Hanford	Generator	Westinghouse Hanford
E.P.A. ID Code No.	WA7800089967	E.P.A. ID Code No.	
Address	Richland	Address	Richland
Destination	Chemical Treatment	Origin	300 Area
Phone	3-4106	Phone	6-3743

No. Shipping Units	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Mat'l Mat'l ID No.	EPA Haz Waste No.	WEIGHT	LABELS REQUIRED (or Exemption No.)
16	Empty HN drums	Not Regulated	N/A	N/A		Empty
8	Empty Open top drums	Not Regulated	N/A	N/A		Empty
2	Empty oil drums	Not Regulated	N/A	N/A		Empty
4	Empty Cutting oil drums	Not Regulated	N/A	N/A		Empty
3	Empty Sodium Hydroxide	Corrosive	UN 1824	D002		Empty Corrosive
10	Empty Paint thinner drums	~~Not Regulated~~ Flammable	UN1593 ~~N/A~~	N/A		Empty, Flammable

PLACARDS REQUIRED

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ _____ Per _____

FREIGHT CHARGES: PREPAID ☐ COLLECT ☐

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ALTERNATE DESTINATION (EMERGENCY ONLY)

T/S/D FACILITY _____
E.P.A. ID Code No. _____
Address _____
Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name L Just
Phone 373-4106

National Response Center 1-800-424-8802
in D. C. 426-2675

CERTIFICATION

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the E.P.A.

Generator Signature R D Hansel Date 8-23-84

TRANSPORTER #1 RHO transportation E.P.A. ID No. WA7800089967
Address RHO 1100 Area
City Richland State WA Zip _____ Phone 6-6654

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 1 Signature [illegible] Date 8-23-84

TRANSPORTER #2 _____ E.P.A. ID No. _____
Address [illegible]
City RHO 1100 Area State WA Zip 99352 Phone 6-8860

This is to certify acceptance of the hazardous waste shipment.

Transporter No. 2 Signature _____ Date _____

TREATMENT/STORAGE/DISPOSAL FACILITY

This is to certify acceptance of the hazardous waste for treatment, storage, or disposal.

T/S/D FACILITY Signature D & T [illegible] Date [illegible]

TRANSPORTER #1 COPY 000374

HAZARDOUS WASTE 911223131314

DISPOSAL ANALYSIS 11-1

ONSITE DISPOSAL

Instructions for packaging, labeling and marking wastes for onsite disposal:

- Apply the appropriate DOT label, as indicated on page 2 of 2, to the drum.
- Mark the drum with the appropriate ID, as indicated on page 2 of 2.
- Notify Transportation of the appropriate disposal trench for each group of drums:

  Item 1&2-Chemical Trench (Corrosive)
  Item 3 - Trash Trench
  Items 4 & 5 - Construction Trench

DISPOSAL PACKET NUMBER

P84-081

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 — Manifest Document No.

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: MD MOXLEY RHO-11-398, 284-E/200 East

A. State Manifest Document Number: NA

B. State Generator's ID: NA

4. Generator's Phone (509) 373-2359

5. Transporter 1 Company Name: ROCKWELL HANFORD

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID: NA

D. Transporter's Phone: 6-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID: NA

F. Transporter's Phone: NA

9. Designated Facility Name and Site Address: CENTRAL LANDFILL CORROSIVE TRENCH

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID: NA

H. Facility's Phone: 6-6748

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. PAINT RELATED MATERIAL (sludge) FLAMMABLE LIQUID NA1263		3	DM	75	G	D001
b. PAINT FLAMMABLE LIQUID UN1263		1	DM	(Empty) 0		D001
c.						
d.						

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name: R. E. MASSINGALE — Signature: R E Massingale — Inspected by LD Lust — Date: Month 11 Day 17 Year 84

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Timothy W Tobery — Signature: Timothy Tobery — Date: Month 11 Day 19 Year 84

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 19.

Printed/Typed Name: D E Phelps — Signature: D E Phelps — Date: Month 11 Day 29 Year 84

Style F15-6 Labelmaster, Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

000273

TRANSPORTER #1

Internal Letter

Rockwell International

October 15, 1984

05000-84-049

FROM:

E. D. Moxley
284-E/200 East

H. A. Haerer
Hazardous Waste Program

3-4216

DISPOSAL ANALYSIS NO. 11-39

Reference: Chemical Waste Disposal Request, October 2, 1984

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Anlaysis.

All packaging, labeling and marking of the waste must be completed in accordance with the prescribed instructions, which are based on Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. Partially completed manifests are attached for your use.

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifests. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arrangements for transporting waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench or to the 2727-S storage facility for subsequent offsite disposal are a generator responsibility and may be implemented after compliance with instructions in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting A. D. Poor (6-1420).

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

H. A. Haerer, Project Manager
Hazardous Waste Program

HAH:LFL:ra

cc: G. R. Cox GRC
D. R. Groth
L. F. Lust
A. D. Poor

Att.

000280

9 1 1 2 2 1 3 1 9

Complete unshaded parts and forward to: SWP&DU 2750E/200E Rockwell
RM: D126

ROCKWELL HANFORD OPERATIONS
CHEMICAL WASTE DISPOSAL REQUEST

Logbook # 11-39

Manifest(s) cross-reference

Requested by	Telephone number	Address	Company
E. L. Moffley	3-2359	284E	RHO

Signature _____ Date 10/2/84

WASTE DESCRIPTION (if more than 12 items, continue on the back of this form)

# of cont.	vol. of cont.	vol. of waste	container material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
182	19gal	181gal	Metal	Paint, oil base, vinyl Base	L	F	F	
1	5 5gal	5 gal	steel	waste Paint Thinner	L	F	F	
1	~~5 gal~~	~~5 gal~~	~~steel~~	~~Dextol-R soil (Cover)~~	~~L~~		~~F~~	Deleted 10/3/84
1	55gal	0	steel	Empty aluminum Paint drums	—	—	MT	
2	55gal	15gal	steel	Aluminum Paint sludge	S	—	PF	
1	55gal	30gal	steel	Paint Thinner	L	F	PF	
1	55gal	45gal	steel	Paint sludge	S	F	PF	

Radiation Monitoring Release Survey Card Number (if applicable)

*Hazards
Corrosive-C Flammable-F
Oxidizer-O Explosive-E
Poison-P

**Status
Full-F New (unused)- N
Partially Full-PF
Empty (1 in.) - M.T.
Triple rinsed (empty drums)-TI

Reported By

00028

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 — Manifest Document No.

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: MD Morley (HO-H-39 B) 284-E/200 East

4. Generator's Phone (509) 373-3359

A. State Manifest Document Number: NA

B. State Generator's ID: NA

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID: NA

D. Transporter's Phone: 6-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID: NA

F. Transporter's Phone: NA

9. Designated Facility Name and Site Address: Central Landfill, Corrosive Trench

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID: NA

H. Facility's Phone: 6-6748

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. PAINT RELATED MATERIAL (Sludge) FLAMMABLE LIQUID NA1263		3	DM	75	G	D001
b. PAINT FLAMMABLE LIQUID UN1263		1	DM	(Empty) 0		D001
c.						
d.						

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Inspected by L D Lust

Printed/Typed Name: R. E. Massingale — Signature: R E Massingale — Date: Month 11 Day 7 Year 84

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Timothy W Tobera — Signature: Timothy Tobera — Date: Month 11 Day 9 Year 84

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: D E Phelps — Signature: D E Phelps — Date: Month 11 Day 9 Year 84

Style F15-6 Laboratory, Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

000282

TRANSPORTER #2

Internal Letter

Rockwell International

Date October 15, 1984

No. 05000-84-049

TO (Name, Organization, Internal Address)

E. D. Moxley
284-E/200 East

FROM: (Name, Organization, Internal Address, Phone)

H. A. Haerer
Hazardous Waste Program

3-4216

Subject: DISPOSAL ANALYSIS NO. 11-39

Reference: Chemical Waste Disposal Request, October 2, 1984

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Anlaysis.

All packaging, labeling and marking of the waste must be completed in accordance with the prescribed instructions, which are based on Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. Partially completed manifests are attached for your use.

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifests. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arrangements for transporting waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench or to the 2727-S storage facility for subsequent offsite disposal are a generator responsibility and may be implemented after compliance with instructions in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting A. D. Poor (6-1420).

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

H. A. Haerer, Project Manager
Hazardous Waste Program

HAH:LFL:ra

cc: G. R. Cox GRC
D. R. Groth
L. F. Lust
A. D. Poor

Att.

000283

9112221372 1

DISPOSAL ANALYSIS NO. 11-39

Offsite Disposal

Items listed for Offsite Disposal must be properly packaged, labeled and manifested for shipment to an offsite disposal facility in accordance with the State of Washington law (Chapter 173-303). The Hanford generator has the responsibility for packaging and for shipping the waste to the offsite staging facility, 2727-S/200 West. Offsite disposal shipments originating from this facility will be arranged by Rockwell.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for offsite disposal:

- In accordance with 49 CFR 173.24, waste must be packaged in strong, tight, DOT-approved containers.
- The DOT Label(s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell Shipping (6-4271).
- The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- The weight of the container, if over 110 pounds, must be marked on the container.
- In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, in letters at least one-half inch high and in a color which contrasts with the container.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifest has been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifest will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

DISPOSAL ANALYSIS NO. 11-39

Onsite Disposal

Items listed for Onsite Disposal must be properly packaged, labeled and manifested for disposal at the Hanford Nonradioactive Hazardous Waste Chemical Trench.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for onsite disposal:

- In accordance with 49 CFR 173.24, waste must be packaged in strong, tight DOT-approved containers.
- The DOT Labels(s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell Shipping (6-4271).
- The DOT Shipping Name and the DOT Identification Number specified in this disposal Analysis must be marked on the container.
- The weight of the container, if over 110 pounds, must be marked on the container.
- In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, in letters at least one-half inch high and in a color which contrasts with the container.
- Bungs must be securely in place for transport.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifest has been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifest will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

DISPOSAL ANALYSIS NO. 11-39

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
				OFFSITE DISPOSAL					
1		Paint	Flammable Liquid	UN1263	Flammable Liquid	D001	182	Metal	1 gal.
2		Paint Related Material (Paint Thinner)	Flammable Liquid	NA1263	Flammable Liquid	D001	2	55-gal Drum	43 gal.
				ONSITE DISPOSAL					
3		Paint Related Material (Paint sludge w/ liquid removed)	Flammable Liquid (solidified)	NA1263	Flammable Liquid	D001	3	55-gal Drum	25 gal.
4		Paint	Flammable Liquid	UN1263	Flammable Liquid	D001	1	55-gal Drum	Empty

9 1 1 2 2 0 3 1 3 2 5

Complete unshaded parts and forward to: SWP&DU 2750E/200E Rockwell
RM-D126

ROCKWELL HANFORD OPERATIONS
CHEMICAL WASTE DISPOSAL REQUEST

Logbook # 11-39

Manifest(s) cross-reference

Requested by	Telephone number	Address	Company
E. D. Hoffley	3-2359	284E	RHO

Signature _____ Date 10/2/84

WASTE DESCRIPTION (if more than 12 items, continue on the back of this form)

# of cont.	vol. of cont.	vol. of waste	container material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
182	19gal	182gal	Metal	Paint, oil base, vinyl Base	L	F	F	
1	55gal	5.5gal	steel	waste Paint Thinner	L	F	F	
~~4~~	~~55gal~~	~~55gal~~	~~steel~~	~~Dectol Rf oil (Cover)~~	~~L~~		~~F~~	Deleted 10/3/84
1	55gal	0	steel	Empty Aluminum Paint drums	—	—	MT	
2	55gal	15gal	steel	Aluminum Paint sludge	S	—	PF	
1	55gal	30gal	steel	Paint Thinner	L	F	PF	
1	55gal	45gal	steel	Paint sludge	S	F	PF	

Radiation Monitoring Release Survey Card Number (if applicable)

*Hazards
Corrosive-C Flammable-F
Oxidizer-O Explosive-E
Poison-P

**Status
Full-F New (unused)- N
Partially Full-PF
Empty (1 in.) - M.T.
Triple rinsed (empty drums)-TR
Reacted-Rx
Other (explained)-O

9 1 1 2 2 4 1 1 2 6

Complete unshaded parts and forward to: SWP&DU 2760E/200E Rockwell
RM-D126

ROCKWELL HANFORD OPERATIONS
CHEMICAL WASTE DISPOSAL REQUEST

Logbook # 71-59

Manifest(s) cross reference

Requested by	Telephone number	Address	Company
E. D. Mosley	3-2359	284E	RHO

Signature _____ Date 10/2/84

WASTE DESCRIPTION (if more than 12 items, continue on the back of this form)

# of cont.	vol. of cont.	vol. of waste	container material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
182	19gal	182gal	Metal	Paint, oil base, vinyl Base	L	F	F	
1	55gal	55gal	steel	Waste Paint Thinner	L	F	F	
4	55gal	55gal	steel	Dectol R&ooit (Conoco)	L		F	Deleted 10/3/84
1	55gal	0	steel	Empty aluminum Paint drums		—	MT	
2	55gal	15gal	steel	Aluminum Paint sludge	S	—	PF	
1	55gal	30gal	steel	Paint Thinner	L	F	PF	
1	55gal	45gal	steel	Paint sludge	S	F	PF	

Radiation Monitoring Release Survey Card Number (if applicable)

C28C

*Hazards
Corrosive-C Flammable-F
Oxidizer-O Explosive-E
Poison-P

**Status
Full-F New (unused)-N
Partially Full-PF
Empty (1 in.)-MT
Triple rinsed (empty drums)-TR
Reacted-Rx
Neutralized-N

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 — Manifest Document No.

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: M D Morley RHO-11-39A, 284 E 200 East

4. Generator's Phone: (509) 373-2359

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

9. Designated Facility Name and Site Address: 2727-S/200 West

10. US EPA ID Number: WA 789 000 8967

A. State Manifest Document Number: NA

B. State Generator's ID: NA

C. State Transporter's ID: NA

D. Transporter's Phone: 6-1420

E. State Transporter's ID: NA

F. Transporter's Phone: NA

G. State Facility's ID: NA

H. Facility's Phone: 3-3679

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Paint Flammable Liquid UN1263	1 ~~163~~ lb	CW	152	G	D001
b.	Paint Related Material Flammable Liquid NA 1263	2	DM	56	G	D001
c.						
d.						

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name: R.E MASSINGALE — Signature: R.E Massingale for L.J Lust — Date: Month 11 Day 9 Year 94

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Gary R. Cox — Signature: [illegible] — Date: Month 11 Day 9 Year 94

Style FIS-6 Labormaster, Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

GENERATOR COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 — Manifest Document No.

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: MD MOXLEY RHO-11-39 B, 284-E/200 East

4. Generator's Phone: (509) 373-2359

A. State Manifest Document Number: NA

B. State Generator's ID: NA

5. Transporter 1 Company Name: ROCKWELL HANFORD — 6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID: NA

D. Transporter's Phone: 6-1420

7. Transporter 2 Company Name: NA — 8. US EPA ID Number: NA

E. State Transporter's ID: NA

F. Transporter's Phone: NA

9. Designated Facility Name and Site Address: CENTRAL LANDFILL CORROSIVE TRENCH — 10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID: NA

H. Facility's Phone: 6-6748

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.		PAINT RELATED MATERIAL (Sludge) FLAMMABLE LIQUID NA1263	3	DM	75	G	D001
b.		PAINT FLAMMABLE LIQUID UN1263	1	DM	(Empty) 0		D001
c.							
d.							

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Inspected by L. D. Lust

Printed/Typed Name: R. E. MASSINGALE — Signature: R. E. Massingale — Date: Month 11 Day 7 Year 84

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Timothy W Tobera — Signature: Timothy Tobera — Date: Month 11 Day 7 Year 84

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: DE PHELPS — Signature: D E Phelps — Date: Month 11 Day 7 Year 84

Style F15-6 Labelmaster, Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

000290

TSDF COPY

DISPOSAL PACKET NUMBER

P84-086

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 3767 — Manifest Document No.

2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: DF Brevard, 2704 W 200 West — RHO-9-17B

A. State Manifest Document Number

B. State Generator's ID

4. Generator's Phone (509) 373-3326

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 3767

C. State Transporter's ID

D. Transporter's Phone: 6-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: Chemical Trench Central Landfill

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone: 6-6748

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	~~HM~~ 1 through 14	None	None	None	14	DM	0 (Empty)	–	None
b.	15 16 17	Methyl Ethyl Ketone	Flammable Liquid	UN 1193	3	DM	0 (Empty)	–	D001
c.	25	Flammable Liquid NOS	Flammable Liquid	UN 1993	1	DM	0 (Empty)	–	D001
d.	26	Corrosive Liquid NOS	Corrosive	UN 1760	1	DM	(Empty)	–	D002

J. Additional Descriptions for Materials Listed Above: 8 Empty 55 gal drums = 58 ft³

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name: D.F. BRAVARD — Signature: D F Brevard — Date: Month 11 Day 14 Year 84

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. A. Arlidge — Signature: [illegible] — Date: Month 11 Day [illegible] Year 84

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: MERL HAMILTON — Signature: Merl Hamilton — Date: Month 11 Day 26 Year 84

Style F15-6 Labelmaster, Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

000155

TSDF COPY

9 1 1 2 2 4 1 1 3 3 0

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0404 Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator's US EPA ID No. WA 789 000 3967	Manifest Document No.	22. Page 2 of 2	Information in the shaded areas is not required by Federal law.

23. Generator's Name: DF Broyard 2704 W/200 West — RHO-9-19B

L. State Manifest Document Number

M. State Generator's ID

24. Transporter Company Name: Rockwell Hanford — 25. US EPA ID Number: WA 789 000 3967

N. State Transporter's ID

O. Transporter's Phone: 6-1420

26. Transporter Company Name: NA — 27. US EPA ID Number: NA

P. State Transporter's ID

Q. Transporter's Phone

	28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM			29. Containers No.	Type	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
a.	Ethylene Glycol	24	None	None	1	DM	2	G	None
b.	~~Westpaper~~ Det-Kleen	✓	None	None	1	DM	0 (Empty)	-	None
c.									
d.									
e.									
f.									
g.									
h.									
i.									

GENERATOR

S. Additional Descriptions for Materials Listed Above

T. Handling Codes for Wastes Listed Above

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter ____ Acknowledgement of Receipt of Materials

Printed/Typed Name: A. Akland — Signature: [illegible] — Date: Month 11 Day 16 Year 94

34. Transporter ____ Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

35. Discrepancy Indication Space

Style F16-6 Laboratory Chicago, IL 60646 (312) 478-0900

000156

EPA Form 8700-22A (3-84)

TSDF COPY

9 1 1 2 2 / 2 1 3 3 1

Internal Letter

Rockwell International

Date August 28, 1984

No · 65950-84-536

TO: (Name, Organization, Internal Address)

· D. F. Bravard
· Process Operations Control
· 2704W/13

FROM: (Name, Organization, Internal Address, Phone)

· L. F. Lust
· Solid Waste Processing
· and Disposal Unit
· 3-4802

Subject · APPROVED DISPOSAL REQUEST 9-19 (ROCKWELL)

Reference: Application to Dispose of Nonradioactive Hazardous Waste, D. F. Bravard, August 20, 1984

The Solid Waste Processing and Disposal Unit has completed review of referenced Disposal Request 9-19. The disposal method for these wastes is outlined on the attached "Disposal Analysis 9-19."

All packaging, labeling, and marking of the waste materials shall be completed in accordance with the prescribed instructions which are based on Department of Transportation (DOT) Regulations 49 CFR 171-179. A Hazardous Waste Manifest is required to accompany all waste shipments in accordance with 40 CFR 263.

Making arrangements for transporting waste materials to the 2727-S storage facility (for forwarding to offsite disposal) and transporting onsite disposal packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented following compliance with Disposal Analysis 9-19 instructions and preparation of the Hazardous Waste Manifest. Contact A. D. Poor (6-1452) for transport arrangements.

Inspection by the Solid Waste Processing and Disposal Unit (SWP&DU) of package content and integrity will be made as required to certify that the waste is prepared in the manner designated on Disposal Analysis 9-19. After the waste is prepared for shipment by the generator and inspected by SWP&DU, the "Generator Signature" in the first certification block of the Hazardous Waste Manifest will be provided by SWP&DU. Failure to package in the manner described in the Disposal Analysis 9-19 will result in suspension of disposal privileges for the offending facility.

Rockwell International

Should you require further assistance regarding the disposition of wastes listed on Disposal Analyisis 9-19, please contact the following personnel:

L. F. Lust, Solid Waste Processing & Disposal Unit (3-4802).

G. R. Cox, Industrial Hygiene & Safety (2727-S Offisite shipment coordinator) (3-3679).

L. F. Lust
Solid Waste Processing and Disposal Unit

LFL:ra

Att.

cc: D. R. Groth w/att
A. D. Poor w/att

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

9-19

I. **GENERATION:** The Generator should complete Part I and forward this form to: ~~WG&DF~~ SWP&D ~~203 S/200 West~~ 2750 E/200 East Rockwell

A. Generator's Name: D F Bravard Phone: 3-3326 Address: 274 W Company: RHO

B. Custodian's Name: JW Matthews Phone: 3-2333 Address: 274 W Company: RHO

C. Waste Description: (If more than five items, attach additional sheets)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. See Attached List, Page 2 of 2							
2.							
3.							
4.							
5.							

D. Have appropriate labels been affixed to containers? _____ Not required _____

E. Have efforts been made to recycle (e.g., excess) waste? _____

F. Has waste been treated in any manner? _____ If so, how? _____

Storage Location: West of 277W shop.

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: _____

Generator's Signature: David Bravard Date: 8-16-84

II. **APPROVAL**

A. Approved for disposal by Name: L.F. Lust Phone: 3-4106 Address 2750E Co.: RHO

Date: 8-20-84 Signature: L F Lust

B. Packaging Requirements (specify): See Disposal Analysis 9-19

C. Disposal Location: X Chemical Trench, _____ Asbestos Trench,

(check one) _____ 212-P (Storage), X 2727-S Other

See Disposal Analysis 9-19.

III. **TRANSPORTATION/DISPOSAL**

Transporter(s) Name: _____ Phone: _____ Address: _____ Company _____

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

BC-6700-174.1 (N-1-8)

9 1 1 2 2 4 3 1 3 3 4

Disposal Request 9-19

Containers			Waste Material		
Item Number	Quant.	Type	Description	Liq/Sol	Amount of Haz. Waste
1-10	10	55 gal drum, open	Empty (steel shot)	N/A	0
11	1	30 gal drum, open	Empty (steel shot)	N/A	0
12-14	3	55 gal drum, closed	Empty (lube oil)	Liquid	< 1"
15-17	3	55 gal drum, closed	Empty (Methyl ethyl ketone)	Liquid	< 1"
18-21	4	55 gal drum, closed	Methyl Ethyl Ketone	Liquid	10 gal (each)
22-23	2	55 gal drum, open bungs	Unknown (formerly MEK drums)	Liquid	10 gal (each)
24	1	55 gal drum, closed	Ethylene glycol	Liquid	2 gal (absorbed)
25	1	55 gal drum, closed	Empty (Petroleum naphtha)	Liquid	< 1"
26	1	55 gal drum, closed	Empty (Unknown)	Liquid	< 1"
27	1	55 gal drum	Empty (Westpower)	Liquid	Empty

Disposal Analysis No. 9-19

Onsite Disposal

Items listed for Onsite Disposal must be properly packaged, labeled and manifested for disposal at the Hanford Nonradioactive Hazardous Waste Chemical Trench.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for onsite disposal.

In accordance with 49 CFR 173.24, waste must be packaged in storng, tight, DOT-approved containers, unless otherwise specified in this Disposal Analysis.

The DOT hazard class LABEL(s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell Shipping, 6-7768.

The DOT SHIPPING NAME and the DOT IDENTIFICATION NUMBER specified in this Disposal Analysis must be marked on the container.

The weight of the container, if over 110 pounds, must be marked on the container.

In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, in letters at least one-half inch high and in a color which contrasts with the container.

Bungs must be securely in place for transport.

All hazardous waste must be accompained by a HAZARDOUS WASTE MANIFEST. The manifest will be initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the "CERTIFICATION" block on the manifest after labeling, marking and inspection are completed. After the "TRANSPORTER" and the "TREATMENT/STORAGE/DISPOSAL FACILITY" blocks have been completed and signed, the manifest will be returned to SWP&DU for filing and for distribution of copies.

Disposal Analysis 9-19

Offsite Disposal

Items listed in the Offsite Disposal section must be properly packaged and manifested for shipment to an offsite disposal facility in accordance with the State of Washington law (Chapter 173-303). The Hanford generator has the responsibility for packaging and shipping of the waste to the offsite staging facility, 2727-S/200W. Offsite disposal shipments originating from this facility will be arranged by Rockwell Industrial Hygiene & Safety Unit.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for offsite disposal.

- In accordance with 49 CFR 173.24, waste must be packaged in strong, tight, DOT-approved containers, unless otherwise specificed in this Disposal Analysis.
- The DOT hazard class label(s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell Shipping, 6-7768.
- The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.

DISPOSAL ANALYSIS 9-19

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
		OFFSITE DISPOSAL						
Flammable Liquid	18-21	Methyl Ethyl Ketone	D001	UN1193	Flammable Liquid	4	55 gal drum	10 gal
Flammable Liquid	22-23	Flammable Liquid N.O.S. (MEK Label)	D001	UN1993	Flammable Liquid	2	55 gal drum	10 gal
		ONSITE DISPOSAL						
Not Regulated	1-10	N/A	N/A	N/A	None	10	55 gal drum	Empty
Not Regulated	11	N/A	N/A	N/A	None	1	30 gal drum	Empty
Not Regulated	12-14	(Lube oil)	N/A	N/A	None	3	55 gal drum	Empty
Flammable Liquid	15-17	Methyl Ethyl Ketone	D001	UN1193	Flammable Liquid	3	55 gal drum	Empty
Flammable Liquid	25	Flammable Liquid N.O.S. (Petuoleum naphtha)	D001	UN1993	Flammable Liquid	1	55 gal drum	Empty
Corrosive Material	26	Corrosive Liquid N.O.S. (drum 215583)	D002	UN1760	Corrosive	1	55 gal drum	Empty
Not Regulated	24	Ethylene Glycol	N/A	N/A	None	1	55 gal drum	2 gal (absorbed)
Not Regulated	27	Westpower Detergent	N/A	N/A	None	1	55 gal drum	Empty

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 | Manifest Document No. RHO-9-19A

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
DF Brevard
2704 W 200 West

4. Generator's Phone (509) 373-3326

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 6-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
27275 / 200 West

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone 3-3679

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	18 19 20 21 Waste Methyl Ethyl Ketone Flammable Liquid UN1193	4	DM	40	G	D001
b.	22 23 Flammable Liquid NOS Flammable Liquid UN1993	2	DA	20	G	D001
c.						
d.						

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name | Signature: Inspected L D Trust 11/14/84 | Date: Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date: Month Day Year

Style F15-6 Labelmaster, Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

000163

TRANSPORTER #2

6331122116

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404 Expires 7-31-88

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator's US EPA ID No. WA 789 000 2967	Manifest Document No.	22. Page 2 of 2	Information in the shaded areas is not required by Federal law.

23. Generator's Name: DF Brovard 2704 W/200 West RHO-9-19B

L. State Manifest Document Number

M. State Generator's ID

24. Transporter Company Name: Rockwell Hanford — 25. US EPA ID Number: WA 789 000 8967

N. State Transporter's ID

O. Transporter's Phone: 6-1420

26. Transporter Company Name: NA — 27. US EPA ID Number: NA

P. State Transporter's ID

Q. Transporter's Phone

	28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			29. Containers No.	Type	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
a.	RQ Ethylene Glycol	None	None	1	DM	2	G	None
b.	~~Westpower Detergent~~	None	None	1	DM	0 (Empty)	-	None
c.								
d.								
e.								
f.								
g.								
h.								
i.								

GENERATOR

S. Additional Descriptions for Materials Listed Above

T. Handling Codes for Wastes Listed Above

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter ____ Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

34. Transporter ____ Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

35. Discrepancy Indication Space

Style F-S-6 Labe master Chicago IL 60646 (312) 478-0900

EPA Form 8700-22A (3-84)

TRANSPORTER #2

00C161

9 1 1 2 2 1 1 1 3 4 0

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Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 | Manifest Document No. RHO-9-19B

2. Page 1 of 2 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
DF Brevard
2704 W 200 West

4. Generator's Phone (509) 373-3326

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford | 6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 6-1420

7. Transporter 2 Company Name: NA | 8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Trench
Central Landfill

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone 6-6748

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	1 through 14	None	None	None	14	DM	0 (Empty)	-	None
b.	15 16 17	Methyl Ethyl Ketone	Flammable Liquid	UN 1193	3	DM	0 (Empty)	-	D001
c.	25	Flammable Liquid NOS	Flammable Liquid	UN 1993	1	DM	0 (Empty)	-	D001
d.	26	Corrosive Liquid, NOS	Corrosive	UN 1760	1	DM	(Empty)	-	D002

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name | Signature: Inspected R J Hunt 12/14/84 | Date: Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date: Month Day Year

Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

000165

TRANSPORTER #2

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0404. Expires 7-31-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 3167 | Manifest Document No. KHD-9-19A

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
DF Ignacio
2704 W Sarvis St

A. State Manifest Document Number

B. State Generator's ID

4. Generator's Phone (517) 373-3326

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 3167

C. State Transporter's ID

D. Transporter's Phone: 6-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
27373 / 300 West

10. US EPA ID Number: WA 789 000 3167

G. State Facility's ID

H. Facility's Phone: 3-3479

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ, 14, 2, 21 Waste Methyl Ethyl Ketone Flammable Liquid UN1193	4	DM	44	G	D001
b.	22, 23 Flammable Liquid NOS Flammable Liquid UN1993	2	DM	20	G	D001
c.						
d.						

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name: DAVID F. EKAVARD | Signature: [signature] | Date: Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date: Month Day Year

Style F15-6 Uniformaster Chicago IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

000166

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9 1 1 2 2 2 1 1 3 4 2

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Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 7890008967 | Manifest Document No.

2. Page 1 of 2 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: D.F. Brevard, 2704 Wilson West, RHO-T-110

4. Generator's Phone (509) 373-3526

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 7890008967

C. State Transporter's ID

D. Transporter's Phone: 6-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: Chemical Trench Central Landfill

10. US EPA ID Number: WA 7890008967

G. State Facility's ID

H. Facility's Phone: 6-6748

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. 14 None None None	14	DM	0 (Empty)	—	None
b. 17 Methyl Ethyl Ketone Flammable Liquid NOS UN1993	3	DM	(Empty)	—	D001
c. Flammable Liquid NOS Flammable Liquid UN1993	1	DM	(Empty)	—	D001
d. Liquid NOS UN1760	1	DM	(Empty)	—	D002

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name: D.F. BREVARD | Signature: D.F. Brevard | Date: Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible] | Signature | Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Merl Hamilton | Signature: Merl Hamilton | Date: Month 11 Day 06 Year 84

GENERATOR — TRANSPORTER — FACILITY

Style F15-6 Labelmaster, Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

000167

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Form Approved. OMB No. 2050-0039 Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator's US EPA ID No. WA 7890008167	Manifest Document No.	22. Page 2 of 2	Information in the shaded areas is not required by Federal law.

23. Generator's Name: DF Brown 2704 W/300 West — RHO-1-110

L. State Manifest Document Number

M. State Generator's ID

24. Transporter Company Name: Rollins Hanford — 25. US EPA ID Number: WA 7890008167

N. State Transporter's ID

O. Transporter's Phone

26. Transporter Company Name: N/A — 27. US EPA ID Number: N/A

P. State Transporter's ID

Q. Transporter's Phone

	28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		29. Containers No.	Type	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
a.	24	Empty [illegible] N[illegible] N[illegible]	1	DM	2	G	N[illegible]
b.	[illegible]	[illegible] N[illegible] N[illegible]	1	DM	[illegible]	[illegible]	N[illegible]
c.							
d.							
e.							
f.							
g.							
h.							
i.							

GENERATOR

S. Additional Descriptions for Materials Listed Above

T. Handling Codes for Wastes Listed Above

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter ____ Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
A. Allen		11 [illegible] [illegible]

34. Transporter ____ Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

35. Discrepancy Indication Space

Style F16-6 Labelmaster, Chicago IL 60646 (312) 478-0900

EPA Form 8700-22A (3-84)

FILE COPY OR STATE COPY

000168

9112221344

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 — Manifest Document No.

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
DF Bravard
2704 W/200 West
RHO-9-19B

4. Generator's Phone (509) 373-3326

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone: 6-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Trench
Central Landfill

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone: 6-6748

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) HM				12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	1 through 14	None	None	None	14	DM	0 (Empty)	–	None
b.	15 16 17	Methyl Ethyl Ketone	Flammable Liquid	UN 1193	3	DM	0 (Empty)	–	D001
c.	25	Flammable Liquid NOS	Flammable Liquid	UN 1993	1	DM	0 (Empty)	–	D001
d.	26	Corrosive Liquid, NOS	Corrosive	UN 1760	1	DM	(Empty)	–	D002

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name: D.F. BRAVARD — Signature: D F Bravard — Inspected H J Lunt — Date: 11/14/94

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. A. Aldridge — Signature: J. A. Aldridge — Date: Month 11 Day 26 Year 84

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: MERL HAMILTON — Signature: Merl Hamilton — Date: Month 11 Day 26 Year 84

Style F15-6 Labelmaster, Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

000378

9112213345

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator's US EPA ID No.: WA 789 000 8967

Manifest Document No.: RHO-9-19B

22. Page: 2 of 2

Information in the shaded areas is not required by Federal law.

23. Generator's Name: DF Brovard 2704 W/200 West

L. State Manifest Document Number

M. State Generator's ID

24. Transporter Company Name: Rockwell Hanford

25. US EPA ID Number: WA 789 000 8967

N. State Transporter's ID

O. Transporter's Phone: 6-1420

26. Transporter Company Name: NA

27. US EPA ID Number: NA

P. State Transporter's ID

Q. Transporter's Phone

	28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	29. Containers No.	Type	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
a.	Ethylene Glycol None None	24	1	DM	2	G	None
b.	~~Westpower Detergent None None~~	X	1	DM	0 (Empty)	-	None
c.							
d.							
e.							
f.							
g.							
h.							
i.							

GENERATOR

S. Additional Descriptions for Materials Listed Above

T. Handling Codes for Wastes Listed Above

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter ___ Acknowledgement of Receipt of Materials

Printed/Typed Name: J.A. Aldridge

Signature: J. A. Aldridge

Date: Month 11 Day 26 Year 84

34. Transporter ___ Acknowledgement of Receipt of Materials

Printed/Typed Name:

Signature:

Date: Month Day Year

FACILITY

35. Discrepancy Indication Space

000373

Style F16-6 Labelmaster, Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22A (3-84)

9112221317346

DISPOSAL PACKET NUMBER

P84-087

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 — Manifest Document No.

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: KH Smith, 105N/100N — UNC-12-158

4. Generator's Phone (509) 373-4940

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: Central Landfill, Chemical Trench

10. US EPA ID Number: WA 789 000 5967

G. State Facility's ID

H. Facility's Phone 509-376-6748

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	B	Oxidizer, Corrosive solid, NOS — Oxidizer & Corrosive — NA 9194	1	DM	4	F3	D007 D002
b.	C	Flammable Liquid, NOS — Flammable Liquid — UN1993	1	DM	4	F3	U154 D001
c.	D	Oxidizer, Corrosive, Solid, NOS — Oxidizer & Corrosive — NA 9194	1	DM	4	F3	D002
d.							

J. Additional Descriptions for Materials Listed Above: Labpacks containing glass and metal containers, packed in vermiculite.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name: Joe Cooper — Signature: Inspected by T. T. Kent 11/29/84 — Date: Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials — Date

Printed/Typed Name: R.C. HAWKS — Signature — Date: Month 12 Day 5 Year 84

18. Transporter 2 Acknowledgement of Receipt of Materials — Date

Printed/Typed Name: ROBERT C HAWKS — Signature — Date: Month 12 Day 5 Year 84

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. — Date

Printed/Typed Name: D E Phelps — Signature — Date: Month 12 Day 5 Year 84

GENERATOR — TRANSPORTER — FACILITY

Style F15-6 Labelmaster, Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

000297

9112212 1343

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 — Manifest Document No.

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: KH Smith, 105N/100N

A. State Manifest Document Number: UHC-12-158

B. State Generator's ID

4. Generator's Phone (509) 373-4940

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: Central Landfill, Chemical Trench

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone 509-376-6748

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)

	HM				12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	B	Oxidizer, Corrosive solid, NOS	Oxidizer & Corrosive	NA 9194					D007 D002
b.	C	Flammable Liquid, NOS	Flammable Liquid	UN1993					U154 D001
c.	D	Oxidizer, Corrosive, Solid, NOS	Oxidizer & Corrosive	NA 9194					D002
d.									

J. Additional Descriptions for Materials Listed Above: Labpacks containing glass and metal containers, packed in vermiculite.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Inspected by L J Lust 11/29/84

Printed/Typed Name | Signature | Date Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date Month Day Year

GENERATOR — TRANSPORTER — FACILITY

Style P15-6 Labelmaster, Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

000298

TRANSPORTER #2

9112221749

OUTGOING LTR. NO. RD4-3914

INCOMING LTR. NO.

FROM

REPLY DUE

DIST:	LTR	ENCL	APPR
Ash, E.B.			
Bartholomew, D.C.			
Bellofatto, M.			
Carey, J.M.			
Crawford, A.C.	✓		
Doubleman, J.L.			
Di Pel, C.V.			
Donahue, J.W.			
Gimert, R.J.			
Grebe, R.S.			
Hammond, R.D.			
Hoenman, R.E.			
Kazmir, J.E.			
Knight, J.E.	✓		
Larson, M.P.			
[illegible], P.E.	✓		
Weil, R.E.			
[illegible], R.J.			
Ogborne, L.R.			
Pascoe, K.J.			
Peterson, J.W.	✓		
Porter, J.D.			
Reeser, A.L.			
Reeser, J.H.	✓		
Schow, C.M.			
Weil, V.R.			
Zabo, L.L.			
Contract Administration	✓		
Central Files	✓	✓	
DR Groth / CRC	✓	✓	✓
LM Roberts	✓	✓	
LE Lust	✓	✓	
SR Cox / CRC	✓	✓	✓
AD Poor	✓	✓	
DD Wagrich	✓		
WF Hahne	✓		
MA Hooper	✓	✓	✓
SB Meade	✓		

DATE NOV 01 1984

Rockwell Hanford Operations
Energy Systems Group
P.O. Box 800
Richland, WA 99352

Rockwell International

approved

In reply, refer 0314

NOV 01 1984

Mr. K. H. Smith
105 N/Rm 125/100 N Area
UNC Nuclear Industries
Post Office Box 490
Richland, Washington 99352

Dear Mr. Smith:

DISPOSAL ANALYSIS NO. 12-15

Reference: Chemical Waste Disposal Request, October 17, 1984

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

All packaging, labeling and marking of the waste must be completed in accordance with the prescribed instructions, which are based on Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. Partially completed manifests are attached for your use.

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifest. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench or to the 2727-S storage facility for subsequent offsite disposal is a generator responsibility and may be implemented after compliance with instructions in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting Mr. A. D. Poor (6-1420).

9112231350

000293

Rockwell International

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

Very truly yours,

H. A. Haerer, Project Manager
Hazardous Waste Program

HAH:LFL:ra

Att.

000300

DISPOSAL ANALYSIS NO. 12-15

Offsite Disposal

Items listed for Offsite Disposal must be properly packaged, labeled and manifested for shipment to an offsite disposal facility in accordance with the State of Washington law (Chapter 173-303). The Hanford generator has the responsibility for packaging and for shipping the waste to the offsite staging facility, 2727-S/200 West. Offsite disposal shipments originating from this facility will be arranged by Rockwell.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for offsite disposal:

- In accordance with 49 CFR 173.24, waste must be packaged in strong, tight, DOT-approved containers.
- The DOT Label(s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell central stores.
- The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- The total weight, if over 110 pounds must be marked on the container.
- In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, in letters at least one-half inch high and in a color which contrasts with the container.
- Bungs must be securely in place for transport.

If more than one waste type is placed in a single package, the following additional requirements must be met:

- Only items in the same compatibility group, as specified in this Disposal Analysis may be placed in a common overpack.
- Inert packing material (e.g., "kitty litter" or vermiculite) must be used to separate individual containers and to fill any void space within the overpack.
- A weather-proof listing of the chemicals (e.g., a protected cut-out of the information provided in this Disposal Analysis), including DOT Shipping Names and DOT Identification Numbers, must be applied to the overpack.
- "THIS SIDE UP" or "THIS END UP" must be marked on the top of the overpack.

Disposal Analysis No. 12-15 (cont'd)

Offsite Disposal (cont'd)

- The package must be marked with an identification number correlating with the package number on the attached Uniform Hazardous Waste Manifest.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifest for shipment to 2727-S has been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifest will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

DISPOSAL ANALYSIS NO. 12-15

Onsite Disposal

Items listed for Onsite Disposal must be properly packaged, labeled and manifested for disposal at the Hanford Nonradioactive Hazardous Waste Chemical Trench.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for onsite disposal:

- In accordance with 49 CFR 173.24, waste must be packaged in strong, tight DOT-approved containers.
- The DOT Label(s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell central stores.
- The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- The total weight, if over 110 pounds, must be marked on the container.
- In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, in letters at least one-half inch high and in a color which contrasts with the container.
- Bungs must be securely in place for transport.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifests for shipment to the central landfill and to 2727-S have been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative form SWP&DU will sign the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifests will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

9 1 1 2 2 4 3 1 3 5 5

Complete only parts and forward to: U 27 and / 2006 Rockwell

Rockwell Har Operations

CHEMICAL WASTE _ SPOSAL REQUEST

Logbook No. 12-

Manifest(s) cross-refers.

Requested by: Ken Smith

Telephone Number:

Address:

Company:

Signature _____ Date _____

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Reagent

Item No.	*** No. of Containers	Container Volume	Waste, Total	Container Material	DOT NAME	DOT Hazard Class	DOT No.	EPA No.	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Compatibility Baker 13-15
1	1	1 pint	1 pint	Glass	Ethyl Acetate	Flammable Liquid	UN1173	D001	L	F	F	34 C
2	8	1 pint	8 pints	Glass	Toluene	Flammable Liquid	UN1294	(F-HW) U210	L	F	F	32 A
3	1	1 pint	1 pint	Glass	Xylene	Flammable Liquid	UN1307	(F-HW) U239	L	F	F	32 A
4	3	1 pint	3 pints	Glass	Methyl Alcohol	Flammable Liquid	UN1230	U154	L	F	F	20 C
5	5	1 pint	5 pints	Glass	Benzene	Flammable Liquid	UN1114	(F-HW) U019	L	F	F	32 A
6	2	1 quart	2 quarts	Metal	Isopropanol	Flammable Liquid	UN1219	D001	L	F	F	20 A
7	1	1 lb	1 lb	Glass	None (Cool Amp)	None	None	None	S	None	F	N SL
8	1	1 lb	1 lb	Glass	Potassium Permanganate	Oxidizer	UN1490	None	S	O	F	OX B
9	1	1 lb	1 lb	Glass	Ammonium Nitrate	Oxidizer	UN1942	None	S	O	F	B D
10	3	1 lb	3 lb	Glass	Sodium Nitrate	Oxidizer	UN1498	None	S	O	F	OX B
~~11~~	~~1~~	~~1 lb~~	~~1 lb~~	~~Glass~~	~~None (Oxalic Acid)~~	~~None~~	~~None~~	~~None~~	~~S~~	~~None~~	~~F~~	~~N SL~~
12	1	1 lb	1 lb	Glass	Ammonium Chloride	ORM-E	NA9085	None	S	None	F	G D
~~13~~	~~1~~	~~1 lb~~	~~1 lb~~	~~Glass~~	~~None (Tartaric Acid)~~	~~None~~	~~None~~	~~None~~	~~S~~	~~None~~	~~F~~	~~4 SL~~

Radiation Monitoring Release Survey Card Number (If applicable)

* Hazards: Corrosive - C; Flammable - F; Oxidizer - O; Explosive - E; Poison - P

** Status: Full - F; New (unused) - N; Partially Full - PF; Empty (<1 in.) - M.T.; Triple rinsed (empty drums) - TR; Reacted - Rx; Old (expired) - O

*** Indicate how many containers of this size are being offered for disposal

N = non reactive
OX = oxidizer
= offsite

00030

WASTE DESCRIPTI

Item No.	No. of Containers	Container Volume	Waste, Total	Container Material	DOT Name	Hazard Class	DOT No.	EPA No.	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Date	
14	1	1 lb	1 lb	Glass	Sodium Chromate	ORM - E	NA9145	D007	S	P	F	N	B
15	1	1 qt	1 qt	Metal	1-1-1 Trichloroethane	ORM-A	UN2831	EHW U226	L	P	F	36	A
16	2	1 qt	2 qt	Glass	Ammonium Hydroxide	Corrosive Material	NA2672	D002	L	C	F	6	D
17	1	1 pt	1 pt	Glass	(37%) Formaldehyde Solution	ORM-A	UN1198	EHW U122	L	P	F	19	A
18	1	5 lb	5 lb	Glass	Sodium Hydroxide, dry solid	Corrosive Material	UN1823	D002	S	C	F	5	B
19	1	1 gal.	1 gal.	Glass	Naphtha	Flammable Liquid	UNJ553	D001	L	F	F	33	C
20	1	2 qt	2 qt	Glass	Ammonium Oxalate (TUBCO 4231)	ORM-A	NA2449	None	L	P	F	6	D

Compatibility Group A (OFFSITE; Aldehydes, Aromatic Hydrocarbons, Halogenated Hydrocarbons)

Items 2,3,5,15,17

Group B (ONSITE: Caustics, Oxidizers, Chromate)

Items 8, 10, 14, 18

Group C (ONSITE: Organic Acids, Alcohols, Naphtha, Esters)

Items 1, 4, 6, 19

Group ~~B~~ SL (ONSITE - Sanitary Waste Dumpster: Non-hazardous, Nonreactive)

Items: 7, [illegible]

000305

OUTGOING LTR. NO. RL4-3914

INCOMING LTR. NO.

ION

REPLY DUE

DIST:	LTR.	ENCL.	APPR.
Ash, E.B.			
Bartholomew, D.C.			
Bellefonte, M.			
Carey, J.M.			
Crawford, A.C.	✓		
Deschmann, J.L.			
Di Pel, C.V.			
Donahue, J.W.			
Gimore, R.J.			
Grubb, R.S.			
Hammond, R.D.			
Hanneman, R.E.			
Kiazor, J.E.			
Knight, B.E.	✓		
Larson, M.P.			
[illegible], P.E.	✓		
[illegible], R.E.			
McDermott, R.J.			
Ogborne, L.R.			
Pence, K.J.			
Peterson, J.W.	✓		
Perkins, J.G.			
Reeser, A.L.			
Roesler, J.H.	✓		
Salien, C.M.			
Weil, V.R.			
Zahn, L.L.			
Contract Administrator	✓		
Control Files	✓	✓	
DD Groth	✓	✓	✓
LW Rodgers	✓	✓	
LF Lust		✓	
GR Cox GRC	✓	✓	✓
AD Poor	✓	✓	
DD Wagstaff	✓		
WF Hayne	✓		
MA Maerer	✓	✓	✓
EA Meade	✓		

DATE NOV 01 1984

Rockwell Hanford Operations
Energy Systems Group
P.O. Box 500
Richland, WA 99352

Rockwell International

approved

In reply, refer to letter: RL4-3914

NOV 01 1984

Mr. K. H. Smith
105 N/Rm 125/100 N Area
UNC Nuclear Industries
Post Office Box 490
Richland, Washington 99352

Dear Mr. Smith:

DISPOSAL ANALYSIS NO. 12-15

Reference: Chemical Waste Disposal Request, October 17, 1984

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

All packaging, labeling and marking of the waste must be completed in accordance with the prescribed instructions, which are based on Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. Partially completed manifests are attached for your use.

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifest. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench or to the 2727-S storage facility for subsequent offsite disposal is a generator responsibility and may be implemented after compliance with instructions in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting Mr. A. D. Poor (6-1420).

9112241357

000306

Rockwell International

NOV 0 1 1984

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

Very truly yours,

H. A. Haerer, Project Manager
Hazardous Waste Program

HAH:LFL:ra

Att.

DISPOSAL ANALYSIS NO. 12-15

Offsite Disposal

Items listed for Offsite Disposal must be properly packaged, labeled and manifested for shipment to an offsite disposal facility in accordance with the State of Washington law (Chapter 173-303). The Hanford generator has the responsibility for packaging and for shipping the waste to the offsite staging facility, 2727-S/200 West. Offsite disposal shipments originating from this facility will be arranged by Rockwell.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for offsite disposal:

- In accordance with 49 CFR 173.24, waste must be packaged in strong, tight, DOT-approved containers.
- The DOT Label(s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell central stores.
- The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- The total weight, if over 110 pounds must be marked on the container.
- In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, in letters at least one-half inch high and in a color which contrasts with the container.
- Bungs must be securely in place for transport.

If more than one waste type is placed in a single package, the following additional requirements must be met:

- Only items in the same compatibility group, as specified in this Disposal Analysis may be placed in a common overpack.
- Inert packing material (e.g., "kitty litter" or vermiculite) must be used to separate individual containers and to fill any void space within the overpack.
- A weather-proof listing of the chemicals (e.g., a protected cut-out of the information provided in this Disposal Analysis), including DOT Shipping Names and DOT Identification Numbers, must be applied to the overpack.
- "THIS SIDE UP" or "THIS END UP" must be marked on the top of the overpack.

Disposal Analysis No. 12-I5 (cont'd)

Offsite Disposal (cont'd)

- The package must be marked with an identification number correlating with the package number on the attached Uniform Hazardous Waste Manifest.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifest for shipment to 2727-S has been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifest will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

DISPOSAL ANALYSIS NO. 12-15

Onsite Disposal

Items listed for Onsite Disposal must be properly packaged, labeled and manifested for disposal at the Hanford Nonradioactive Hazardous Waste Chemical Trench.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for onsite disposal:

- In accordance with 49 CFR 173.24, waste must be packaged in strong, tight DOT-approved containers.
- The DOT Label(s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell central stores.
- The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- The total weight, if over 110 pounds, must be marked on the container.
- In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, in letters at least one-half inch high and in a color which contrasts with the container.
- Bungs must be securely in place for transport.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifests for shipment to the central landfill and to 2727-S have been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative form SWP&DU will sign the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifests will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

DISPOSAL ANALYSIS NO. 12-15

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
				OFFSITE DISPOSAL					
Compatibility Group A									
2		Toluene	Flammable Liquid	UN1294	Flammable Liquid	U220	8	Glass	1 pint
3		Xylene	Flammable Liquid	UN1307	Flammable Liquid	U239	1	Glass	1 pint
5		Benzene	Flammable Liquid	UN1114	Flammable Liquid	U019	5	Glass	1 pint
15	1-1-1	Trichloro-ethane	ORM-A	UN2831	None	U226	1	Metal	1 quart
17		Formaldehyde Solution (37%)	ORM-A	UN1198	None	U122	1	Glass	1 pint
				ONSITE DISPOSAL					
Compatability Group B									
9		Potassium Permanganate	Oxidizer	UN1490	Oxidizer	None	1	Glass	1 pound
8		Sodium Nitrate	Oxidizer	UN1498	Oxidizer	None	3	Glass	1 pound
14		Sodium Chromate	ORM-E	NA9145	ORM-E	D007	1	Glass	1 pound
18		Sodium Hydroxide, Dry Solid	Corrosive Material	UN1823	Corrosive	D002	1	Glass	5 pounds
Compatibility Group C									
1		Ethyl Acetate	Flammable Liquid	UN1173	Flammable Liquid	D001	1	Glass	1 pint
4		Methyl Alchol	Flammable Liquid	UN1230	Flammable Liquid	U154	3	Glass	1 pint
6		Isopropanol	Flammable Liquid	UN1219	Flammable Liquid	D001	2	Metal	1 quart
19		Naphtha	Flammable Liquid	UN2553	Flammable Liquid	D001	1	Glass	1 gallon

DISPOSAL ANALYSIS NO. 12-15

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
				ONSITE DISPOSAL (Cont'd)					
Compatibility Group D									
10		Ammonium Nitrate	Oxidizer	UN1942	Oxidizer	None	1	Glass	1 pound
12		Ammonium Chloride	ORM-E	NA9085	None	None	1	Glass	1 pound
16		Ammonium Hydroxide	Corrosive Material	NA2672	Corrosive	D002	2	Glass	1 quart
20		Ammonium Oxalate (TURCO 4521)	ORM-A	NA2449	None	None	1	Glass	2 quart
				ONSITE DISPOSAL - SANITARY WASTE					
7		None (Cool Amp)	None	None	None	None	1	Glass	1 pound
11		None (Oxalic Acid)	None	None	None	None	1	Glass	1 pound
13		None (Tartaric Acid)	None	None	None	None	1	Glass	1 pound

On Friday, November 8th, 85 trench #19-N, the Oxidizer Trench at the Central Landfill was excavated in order to remove drums containing sodium nitrite. All other waste drums previously manifested to this trench were also removed. The following information is to be attached to each hazardous waste manifest which was affected by the excavation.

Manifest #	Status of Waste Drums After Trench Excavation:
RHO-13-33	Drums disposed to trash trench, central landfill.
PNL-7-23	Drums were returned back to oxidizer trench.
UNC-12-15B	Drums were returned back to oxidizer trench.
RHO-5-31	13 drums of sodium nitrite were not located in the oxidizer trench. It is assumed that burial took place in the corrosive trench, since the manifest gives a disposal date to the chemical trench.
RHO-13-9	Drums were disposed to trash trench, central landfill.
RHO-11-29	Drums were disposed to trash trench. central landfill.
RHO-13-5	Drums were disposed to trash trench, central landfill.
RHO-11-3	Drums were disposed to trash trench, central landfill.
PNL-7-25	2 lab packs in this disposal request were not located in the oxidizer trench. It is assumed that past burial occured in the corrosive trench, since the manifest shows disposal in the chemical trench.
RHO-10-31	Drums were disposed to trash trench, central landfill.
PNL-6-9	13 Drums of sodium nitrite were transported to the 2727-S storage facility/200 West because of their EHW designation. For the 10 drums of hydrated nickel listed on the manifest, status is: 1 drum was also transported to 2727-S, for storage (EHW because of carcinogenic waste designation). At time of transport drum was not known. The hydrated nickel drum was opened at 2727-S for clear identification. The other 9 drums of hydrated nickel were not found in the oxidizer trench. It is assumed they were buried in the corrosive trench.
RHO-9-33	Drums redisposed to the oxidizer trench.
PNL-5-17	Drums were disposed to trash trench, central landfill.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 — Manifest Document No.

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
KH Smith
105N/100 N
UNC-12-158

4. Generator's Phone (509) 373-4940

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Central Land Fill
Chemical Trench

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone 509-376-6748

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM			12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Oxidizer, Corrosive solid, NOS	B	Oxidizer & Corrosive	NA 9194	1	DM	4	ft^3	D007 D002
b.	Flammable Liquid, NOS	C	Flammable Liquid	UN1993	1	DM	4	ft^3	U154 D001
c.	Oxidizer, Corrosive, solid, NOS	D	Oxidizer & Corrosive	NA 9194	1	DM	4	ft^3	D002
d.									

J. Additional Descriptions for Materials Listed Above
Labpacks containing glass and metal containers, packed in vermiculite.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Inspected by L J Lust 11/29/84

Printed/Typed Name	Signature	Date (Month Day Year)
Joe Cooper	[signature]	11 29 84

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
R.C. Hawks		12 5 84

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
Robert C Hawks	[signature]	12 5 84

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
D E Phelps	D E Phelps	12 5 84

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EPA Form 8700-22 (3-84)

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DISPOSAL PACKET NUMBER

P85-004

Rockwell Hanford Operations	DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD

STORAGE/DISPOSAL ACTIVITY

Onsite Disposal (D81):
- ☐ Oxidizer Trench
- ☒ Corrosive Trench
- ☐ Asbestos Trench

Non-PCB Onsite Storage (SO11)/Offsite TSD: ☐

PCB Onsite Storage/Offsite Disposal: ☐

ORIGINATOR

End Function: X 46720

Manifest Number: RHO 13-198

Company: Rockwell Hanford

Building/Area: 202A/200 East

Contact Person: R L Nelson

Address/Phone: 202A/200 East 373-1323

PHYSICAL DESCRIPTION

Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT^3)	Generating Facility Bldg., Area
1	Non-regulated drums, empty	None	None	135	88	202A/200E
2						
3						
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form.

Total Weight (Front & Back) 135 KG

Total Volume (Front & Back) 88 FT^3

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)

ONSITE DISPOSAL:

Disposal Date: 1-10-85

Signature: Disposer

Trench Location:

Beginning Coordinates: N W

Ending Coordinates: N W

NON PCB OFFSITE DISPOSAL

Storage Time:

Arrival Date:

Date Shipped:

Offsite TSD

Facility Name:

Facility Address:

TSD Process:

Landfill (D81): ☐ Disposal Date

Treatment (TO ____): ☐ Treatment Date

Specify Treatment Activity

Other (_____): ☐

Specify Activity

PCB OFFSITE DISPOSALS

Storage Time:

Beginning Date:

Date Shipped:

Offsite Disposal:

Facility Name:

Facility Address:

COMMENTS:

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A-6400-249 (11-84)

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POOR COPY RECEIVED

Waste ...ter (FT)

...signed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2000-0404, Expires 7-31-86

...HAZARDOUS ...TE MANIFEST

1. Generator's US EPA ID No. WA 7 1 9 [illegible] 7 1 7	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.

...'s Name and Mailing Address: RLNelson, 202A/200 East — HHD 13-17B

Generator's Phone (5[illegible]) 373-[illegible]

A. State Manifest Document Number

B. State Generator's ID

3. Transporter 1 Company Name: Nationwell Hanford

6. US EPA ID Number: WA 7 1 [illegible] 7 1 7

C. State Transporter's ID

D. Transporter's Phone: 376-[illegible]

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: Celan Landfill, [illegible] Trail

10. US EPA ID Number: WA 7[illegible] 1[illegible]7

G. State Facility's ID

H. Facility's Phone: (5[illegible]) 376-[illegible]

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.		None listed None None	12	DP	75	FL	None
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

12 Empty plastic, [illegible] drums

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
RONALD L. NELSON	Ronald L. Nelson	1	10	85

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Tyler Waste Co[illegible]	[illegible]		[illegible]	5[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
D. F. [illegible]	D. F. [illegible]	1	10	85

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GENERATOR COPY

'85

Internal Letter

Rockwell International

Date January 11, 1985

No. 05000-85-002

TO (Name, Organization, Internal Address)

R. L. Nelson
202A/200 East

FROM (Name, Organization, Internal Address, Phone)

H. A. Haerer
Hazardous Waste Program

3-4216

Subject: DISPOSAL ANALYSIS NO. 13-19

Reference: Chemical Waste Disposal Request, January 2, 1985

The Solid Waste Processing & Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

All packaging, labeling and marking of the waste must be completed in accordance with the prescribed instructions, which are based on Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. Partially completed manifests are attached for your use.

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifest. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench or to the 2727-S storage facility for subsequent offsite disposal is a generator responsibility and may be implemented after compliance with instructions in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting A. D. Poor (6-1420).

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

H. A. Harer, Project Manager
Hazardous Waste Program

HAH:LFL:ra

Att.

cc: G. R. Cox GRC
D. R. Groth
L. F. Lust (2)

0000129

Disposal Anlaysis No. 13-19

Offsite Disposal

Items listed for Offsite Disposal must be properly packaged, labeled and manifested for shipment to an offsite disposal facility in accordance with the State of Washington law (Chapter 173-303). The Hanford generator has the responsibility for packaging and for shipping the waste to the offsite staging facility, 2727-S/200 West. Offsite disposal shipments originating from this facility will be arranged by Rockwell.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for offsite disposal:

- In accordance with 49 CFR 173.24, waste must be packaged in strong, tight, DOT-approved containers.
- The DOT Label(s) specified in this Disposal Analysis must be applied to the container.
- The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- The drums must be inspected to ensure that they are empty.
- In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, and in a color which contrasts with the container.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifest has been initiated by the Rockwell Solid Waste Processing & Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifest will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

9 1 1 2 2 0 1 3 7 0

DISPOSAL ANALYSIS NO. 13-19

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
				OFFSITE DISPOSAL					
		Hydrazine	Corrosive Material	UN2030	Corrosive	U133	6	55-gal drums	Empty
				ONSITE DISPOSAL					
		Non-regulated	None	None	None	None	12	55-gal drums	Empty

00001122

9 1 1 2 2 4 3 1 3 7 2

Complete unc ierts and forward to: S

E/A106/200E

Rockwell

Rockwell Hanf Operations

CHEMICAL WASTE SPOSAL REQUEST

Logbook No. 11

Manifest(s) cross-refer

Requested by	Telephone Number	Address	Company
R. L. NELSON	373-2323	202A/200E	RHO

Signature Ronald L. Nelson Date 1-2-85

Radiation Monitoring Release Survey Card Number (If Applicable)

WASTE DESCRIPTION (For additional items, continue on the back of this form)

A Item No	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	46	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	None	MT	
1	4	55GAL	0	PLAS DRUM	EMPTY FE DRUMS	$FeSA_2$		L	C	MT	MT	
2	6	55GAL	0	PLAS DRUM	EMPTY N_2H_4 DRUMS	N_2H_4		L	C	MT	MT	
3	8	55GAL	0	PLAS DRUM	EMPTY HN DRUMS	HN		L	C	MT	MT	

INSTRUCTIONS

COLUMN A - ITEM NUMBER — Item number for each unique waste

COLUMN B - NUMBER OF CONTAINERS — Number of containers of a unique waste to be disposed.

COLUMN C - CONTAINER SIZE — Size of containers specified in Column B. If multiple container sizes, specify number and size of each.

COLUMN D - TOTAL WASTE QUANTITY — Total waste quantity (in kilograms only) of each unique waste to be disposed.

COLUMN E - CONTAINER DESCRIPTION — Specify container type e.g. steel drum, glass bottle.

COLUMN F - WASTE DESCRIPTION — Specify trade name or general description of each unique waste.

COLUMN G - CHEMICAL COMPONENTS — List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

COLUMN H - WEIGHT (%) — For each waste component indicate percent of range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages

COLUMN I - PHYSICAL STATE — Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.

COLUMN J - HAZARDS — Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.

COLUMN K - WASTE STATUS — Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).

COLUMN L - CONTAINER STATUS — Indicate whether container is: Full (F), Partially Full (PF), Empty (< 1 in) (MT), Triple Rinsed (TR).

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Complete or ... arts and forward to

2750E/A105/200E
Rockwell

Rockwell Hanf ... erations

CHEMICAL WASTE ... POSAL REQUEST

Logbook No. ~~111~~ 221 . 11

Manifest(s) cross-reference

Requested by R. L. NELSON

Telephone Number 373-2323

Address 200 A/East

Company RHO

Signature Ronald L. Nelson

Date 1-2-85

Radiation Monitoring Release Survey Card Number (If Applicable)

WASTE DESCRIPTION (For additional items, continue on the back of this form)

A Item No	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TUHCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 1 ppm	L	None	None	MT	
1	4	55GAL	0	PLAS DRUM	EMPTY FE DRUMS	Fe SO4		L	C	MT	MT	
2	6	55GAL	0	PLAS DRUM	EMPTY N2H4 DRUMS	N2H4		L	C	MT	MT	
3	8	55GAL	0	PLAS DRUM	EMPTY HN DRUMS	HN		L	C	MT	MT	
4	15	55gal	0	steel Drums	Empty Non-regulated						MT	

INSTRUCTIONS

COLUMN A · ITEM NUMBER – Item number for each unique waste.

COLUMN B · NUMBER OF CONTAINERS – Number of containers of a unique waste to be disposed.

COLUMN C · CONTAINER SIZE – Size of containers specified in Column B. If multiple container sizes, specify number and size of each.

COLUMN D · TOTAL WASTE QUANTITY – Total waste quantity (in kilograms only) of each unique waste to be disposed.

COLUMN E · CONTAINER DESCRIPTION – Specify container type e.g. steel drum, glass bottle.

COLUMN F · WASTE DESCRIPTION – Specify trade name or general description of each unique waste.

COLUMN G · CHEMICAL COMPONENTS – List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

COLUMN H · WEIGHT (%) – For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.

COLUMN I · PHYSICAL STATE – Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.

COLUMN J · HAZARDS – Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.

COLUMN K · WASTE STATUS – Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).

COLUMN L · CONTAINER STATUS – Indicate whether container is: Full (F), Partially Full (PF), Empty (< 1 in) (MT), Triple Rinsed (TR).

A 6400 245 (11 84)

Rockwell Hanford Operations | DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD

STORAGE/DISPOSAL ACTIVITY	ORIGINATOR	
Onsite Disposal (D81) ☐ Oxidizer Trench ☐ Corrosive Trench ☐ Asbestos Trench	End Function: X 46720	Manifest Number: RHO 13-19A
	Company: Rockwell Hanford	Building/Area: 202A/200 East
Non-PCB Onsite Storage (SO11) Offsite TSD: X	Contact Person: R L Nelson	
PCB Onsite Storage/Offsite Disposal: ☐	Address/Phone: 202A/200 East 373-2323	

PHYSICAL DESCRIPTION

Item No	Description Of Waste	DOT Hazard Class	WDOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT³)	Generating Facility Bldg. Area
1	Empty Hydrazine drums (6)	Corrosive Material	u133	273	44	202A/200 East
2						
3						
4						
5						
6						
7						
8						
9						
10						

For additional items continue on the back of this form

Total Weight (Front & Back) 273 KG Total Volume (Front & Back) 44 FT³

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)

ONSITE DISPOSAL	Disposal Date	Signature: Disposer	
	Trench Location:	Beginning Coordinates: N	W
		Ending Coordinates: N	W
NON PCB OFFSITE DISPOSAL	Storage Time:	Arrival Date:	
		Date Shipped:	
	Offsite TSD	Facility Name:	
		Facility Address:	
		TSD Process:	Landfill (D81): ☐ Disposal Date Treatment (TO ___): ☐ Treatment Date Specify Treatment Activity Other (_____): ☐ Specify Activity
PCB OFFSITE DISPOSALS	Storage Time:	Beginning Date:	
		Date Shipped:	
	Offsite Disposal:	Facility Name:	
		Facility Address:	

COMMENTS

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Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 7890008967 | Manifest Document No. RHO 13-11A

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
RL Nelson
2728 Port East

A. State Manifest Document Number

B. State Generator's ID

4. Generator's Phone (509) 373-2122

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 7890008967

C. State Transporter's ID

D. Transporter's Phone 376-1426

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
2727-S / 200W

10. US EPA ID Number: WA 7890008967

G. State Facility's ID

H. Facility's Phone (509) 373-3679

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)

	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste (Empty) Corrosive Hazardous Material UN2920	6	DP	600	P	U133
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Certified by L J Lust

Printed/Typed Name: RONALD L. NELSON | Signature: Ronald L Nelson | Date: Month 1 Day 16 Year 85

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature: R/C Bryant for GACox | Date: Month 1 Day 16 Year 85

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EPA Form 8700-22 (3-84)

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GENERATOR COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 — Manifest Document No.

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
RLNelson
202A/200 East
RHO 13-19B

4. Generator's Phone (509) 373-2323

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Central Landfill
Chemical Trench

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone (509) 376-6746

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Non-regulated None None		12	DP	88	FL3	None
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
12 Empty plastic, 55-gal drums

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name: RONALD L. NELSON — Signature: Ronald L. Nelson certified by L J Frost — Date: Month 1 Day 10 Year 85

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: John Wayne Carr — Signature: John Wayne Carr — Date: Month 1 Day 10 Year 85

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: D E Phelps — Signature: D E Phelps — Date: Month 1 Day 10 Year 85

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EPA Form 8700-22 (3-84)

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TRANSPORTER #1

DISPOSAL PACKET NUMBER

P85-007

9 1 1 2 2 0 1 7 7 7

Rockwell Hanford Operations

DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD

STORAGE/DISPOSAL ACTIVITY

Onsite Disposal (D81):
- ☐ Oxidizer Trench
- ☒ Corrosive Trench
- ☐ Asbestos Trench

12-43B

Non-PCB Onsite Storage (S01)/Offsite TSD: ☐

PCB Onsite Storage/Offsite Disposal: ☐

ORIGINATOR

End Function: B 53100

Manifest Number: RHO-12-43B

Company: RHO

Building/Area: 212P/600

Contact Person: RF Grelzinger

Address/Phone: 3-3806

PHYSICAL DESCRIPTION

Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT³)	Generating Facility Bldg.. Area
1	Nonregulated empty drums	None	None	127	29	212P/600
2						
3						
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form

Total Weight (Front & Back) 1 KG

Total Volume (Front & Back) 29 FT³

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)

ONSITE DISPOSAL:

Disposal Date: 1/7/95

Signature: Disposer

Trench Location:

Beginning Coordinates: N W

Ending Coordinates: N W

NON PCB OFFSITE DISPOSAL

Storage Time:

Arrival Date:

Date Shipped:

Offsite TSD

Facility Name:

Facility Address:

TSD Process:

Landfill (D81): ☐ Disposal Date

Treatment (TO ___): ☐ Treatment Date

Specify Treatment Activity

Other (_____): ☐

Specify Activity

PCB OFFSITE DISPOSALS

Storage Time:

Beginning Date:

Date Shipped:

Offsite Disposal:

Facility Name:

Facility Address:

COMMENTS.

000043

A-6400-249 (11-84)

9112221178

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 — Manifest Document No RHO 12-43B

2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
R. F. Gretzinger
2101M/1414B/200 East

A. State Manifest Document Number

B. State Generator's ID

4. Generator's Phone ( )

5. Transporter 1 Company Name: Rockwell Hanford
6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name: NA
8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Central Landfill
Chemical Trench
10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone (509) 376-6748

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Non-regulated Empty drums None None	4	DM	29	Ft^3	None
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
4 Empty drums. Weight 300 pounds
Volume 29 Ft^3

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Approved by L J Frost

Printed/Typed Name	Signature	Date Month	Day	Year
R. F. Gretzinger	R F Gretzinger	1	7	85

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
J. A. Aldridge	J. A. Aldridge	1	11	85

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
D F Phelps	D F Phelps	1	11	85

Sivyer Steel Corporation Chicago IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

TRANSPORTER #1

0000094

6711122 1116

Internal Letter

Rockwell International

Date: December 26, 1984

No.

TO (Name, Organization, Mailing Address)

R. F. Gretzinger
2101M/141B/200 East

FROM (Name, Organization, Mailing Address, Phone)

H. A. Haerer
Hazardous Waste Program

3-4216

Subject:

DISPOSAL ANALYSIS NO. 12-43

Reference: Chemical Waste Disposal Request November 30, 1984

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

All packaging, labeling and marking of the waste must be completed in accordance with the prescribed instructions, which are based on Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. Partially completed manifests are attached for your use.

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifests. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench or to the 2727-S storage facility for subsequent offsite disposal is a generator responsibility and may be implemented after compliance with instructions in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting A. D. Poor (6-1420).

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

H. A. Haerer, Project Manager
Hazardous Waste Program

HAH:LFL:kh

cc: G. R. Cox GRC
D. R. Groth
L. F. Lust (2)

Att.

C000095

9112231380

DISPOSAL ANALYSIS NO. 12-43

Offsite Disposal

Items listed for Offsite Disposal must be properly packaged, labeled and manifested for shipment to an offsite disposal facility in accordance with the State of Washington law (Chapter 173-303). The Hanford generator has the responsibility for packaging and for shipping the waste to the offsite staging facility, 2727-S/200 West. Offsite disposal shipments originating from this facility will be arranged by Rockwell.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for offsite disposal:

- In accordance with 49 CFR 173.24, waste must be packaged in strong, tight, DOT-approved containers.
- The DOT Label(s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell Central Stores.
- The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- The total weight, if over 110 pounds, must be marked on the container.
- In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, and in a color which contrasts with the container.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifest has been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifest will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

DISPOSAL ANALYSIS NO. 12-43

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
				OFFSITE DISPOSAL					
	///	Trichloroethylene	ORM-A	UN1710	None	U228	5	55-gallon steel drum	Empty
		Pentachlorophenol	ORM-E	NA2020	None	U242	5	55-gallon steel drum	~~Empty~~ 55 gal
				ONSITE DISPOSAL					
		Non-Regulated Empty Drums	None	None	None	None	4	55-gallon steel drum	Empty

000037

9 1 1 2 2 1 7 3 3

Complete unshaded parts and forward to: SWP&DU 2750E / 200E Rockwell

Rockwell Hanford Operations
CHEMICAL WASTE DISPOSAL REQUEST

Logbook No. 12 - 13

Manifest(s) cross-reference

Requested by: R F Gretzinger

Telephone Number: 3-3806

Address: 2cs-Gard 141B/2101M

Company: RHO

Signature: Robert F. Gretzinger

Date: 11/30/80

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No	*** No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	4	55 gal	0	steel	Non hazardous material	L	None	MT	
2	5	55 gal	0	steel	Trichloroethylene	L	P	MT	
3	5	55 gal	0	Steel	Penta Plus 40 (Pentachlorophenol 35.3%, other chlorinated organics 4.1%, petroleum solvent 59%, and ingredients 1.6%)	L	P	~~MT~~ Full	

Radiation Monitoring Release Survey Card Number (if applicable)

* Hazards
Corrosive - C Flammable - F
Oxidizer - O Explosive - E
Poison - P

** Status
Full - F New (unused) - N
Partially Full - PF
Empty (<1 in.) - M.T.
Triple rinsed (empty drums) - TR
Reacted - Rx
Old (expired) - O

*** Indicate how many containers of this size are being offered for disposal

0000089

9 1 1 2 2 0 3 1 3 3 4

Complete un a parts and forward to Sw aDU 2760E/200E Rockwell

Rockwell Hanf Operations

CHEMICAL WASTE DISPOSAL REQUEST

Logbook No 12

Manifest(s) cross reference

Requested by R F Gretzinger | Telephone Number 3-3806 | Address 2ce Gard 1-118/NOX | Company RHO

Signature Robert F. Gretzinger | Date 11/30/80

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No.	*** No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	4	55 gal	0	steel	Non hazardous material	L	None	MT	
2	5	55 gal	0	steel	Trichloroethylene	L	P	MT	
3	5	55 gal	0	steel	Penta Plus 40 (Pentachlorophenol 35.3%, other chlorinated organics 4.1%, petroleum solvent 51%, and ingredients 4.6%)	L	P	full MT	
2	Trichloroethylene			DOM-A	UN 1710 None UN 2055 F 110	C, N, T			
3	Pentachlorophenol			DOM-E	NA 2020 None UN 3432 F 110	A, H			

* Radiation Monitoring Release Survey Card Number (if applicable)

* Hazards
Corrosive - C Flammable - F
Oxidizer - O Explosive - E
Poison - P

** Status
Full - F New (unused) - N
Partially Full - PF
Empty (<1 in.) - M.T.
Triple rinsed (empty drums) - TR
Reacted - Rx
Old (expired) - O

*** Indicate how many containers of this size are being offered for disposal

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved OMB No 2000-0404 Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 | Manifest Document No. RHO 12-438 A | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
R. F. Gretzinger
2101M/141B/200 East

4. Generator's Phone (509) 373-3806

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford | 6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-4420

7. Transporter 2 Company Name: NA | 8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: 2727S/200 West | 10. US EPA ID Number: WA789 000 8967

G. State Facility's ID

H. Facility's Phone (509) 373-3679

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Trichloroethylene ORM-A UN1710	5	DM	375	P	U228
b. Waste Pentachlorophenol (Penta Plus 40) ORM-E NA2020	5	DM	~~375~~ 375	P	U242
c.					
d.					

J. Additional Descriptions for Materials Listed Above
Empty drums. DOT. Weight ~~750~~ 750 pounds
Volume ~~75~~ 75 cubic feet

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name: R.F. Gretzinger | Signature | Date: Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials | Printed/Typed Name | Signature | Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials | Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature: for GR Cox | Date: Month Day Year 1 11 85

Style F15-6 Lade Master Chicago IL 60646 312 478-0900

EPA Form 8700-22 (3-84)

0000100

FILE COPY OR STATE COPY

9112221735

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 — Manifest Document No. RHO-12-43B

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
R. F. Gretzinger
2101M/1414B/200 East

4. Generator's Phone ( )

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone: 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Central Landfill
Chemical Trench

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone: (509) 376-6748

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Waste Non-regulated Empty drums None None		4	DM	29	Ft^3	None
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
4 Empty drums. Weight 300 pounds
Volume 29 Ft^3

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Approved by

Printed/Typed Name	Signature	Date (Month Day Year)
R.F. Gretzinger	R.F. Gretzinger L J Fuest	1 17 85

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
J.A. Aldridge	J. A Aldridge	1 11 85

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
D F Phelps	D E Phelps	1 11 85

Style F15-6 Labelmaster, Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

000309

TRANSPORTER #1

9 1 1 2 2 0 0 1 3 3 6

DISPOSAL PACKET NUMBER

P85-009

Rockwell Hanford Operations	DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD

STORAGE/DISPOSAL ACTIVITY

Onsite Disposal (D81):
- ☐ Oxidizer Trench
- ☒ Corrosive Trench
- ☐ Asbestos Trench

Non-PCB Onsite Storage (S01)/Offsite TSD: ☐

PCB Onsite Storage/Offsite Disposal: ☐

ORIGINATOR

End Function: B53100/ G531AA	Manifest Number: RHO 12-21B
Company: RHO	Building/Area: 2101M/200 East
Contact Person: F. J. Orsag	
Address/Phone: 2101M/200 East 373-2354	

PHYSICAL DESCRIPTION

Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT^3)	Generating Facility Bldg./Area
1	Empty Non-regulated drums (21)	None	None	668	154	2101M/200 East
2						
3						
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form.

Total Weight (Front & Back) 668 KG

Total Volume (Front & Back) 154 FT^3

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)

ONSITE DISPOSAL:

Disposal Date:

Signature: Disposer

Trench Location:

Beginning Coordinates: N W

Ending Coordinates: N W

NON PCB OFFSITE DISPOSAL

Storage Time:

Arrival Date:

Date Shipped:

Offsite TSD

Facility Name:

Facility Address:

TSD Process:

Landfill (D81): ☐ Disposal Date

Treatment (TO ____): ☐ Treatment Date

Specify Treatment Activity

Other (_____): ☐

Specify Activity

PCB OFFSITE DISPOSALS

Storage Time:

Beginning Date:

Date Shipped:

Offsite Disposal:

Facility Name:

Facility Address:

COMMENTS:

0000025

A-6400-249 (11-84)

9112221331338

Rockwell Hanford Operations

DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD

STORAGE/DISPOSAL ACTIVITY

Onsite Disposal (D81):
- ☐ Oxidizer Trench
- ☒ Corrosive Trench
- ☐ Asbestos Trench

Non-PCB Onsite Storage (S01)/Offsite TSD: ☐

PCB Onsite Storage/Offsite Disposal: ☐

ORIGINATOR

End Function: B53100/ G531AA

Manifest Number: RHO 12-21B

Company: RHO

Building/Area: 2101M/200 East

Contact Person: F. J. Orsag

Address/Phone: 2101M/200 East 373-2354

PHYSICAL DESCRIPTION

Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)		Weight (KG)	Volume Of Waste and Container (FT^3)	Generating Facility Bldg./Area
1	Empty Non-regulated drums (21)	None	None		668	154	2101M/200 East
2							
3							
4							
5							
6							
7							
8							
9							
10							

For additional items, continue on the back of this form.

Total Weight (Front & Back) 668 KG

Total Volume (Front & Back) 154 FT^3

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)

ONSITE DISPOSAL.

Disposal Date:

Signature: Disposer

Trench Location:

Beginning Coordinates: N W

Ending Coordinates: N W

NON PCB OFFSITE DISPOSAL

Storage Time:

Arrival Date:

Date Shipped:

Offsite TSD

Facility Name:

Facility Address:

TSD Process:

Landfill (D81): ☐ Disposal Date

Treatment (TO ___): ☐ Treatment Date

Specify Treatment Activity

Other (_____): ☐

Specify Activity

PCB OFFSITE DISPOSALS

Storage Time:

Beginning Date:

Date Shipped:

Offsite Disposal:

Facility Name:

Facility Address:

COMMENTS:

0000026

A-6400-249 (11-84)

9112221799

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 3967 — Manifest Document No.

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
F. J. Orsag
2101M/200 East
RHO 12-21B

4. Generator's Phone (509) 373-2354

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Central Landfill
Corrosive Trench

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone (509) 376-6748

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Waste Non-regulated empty drums None None	21	DM	153	Ft^3	None
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
21 Empty 55 gallon drums.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name: F. J. Orsag — Signature — Date: Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible] — Signature — Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Date: Month Day Year

Style F15-6 Moormaster Chicago IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

0000027

C6211 22116

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: WA 789 000 3967

Manifest Document No.: RHO 12-216

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: F. J. Orsag, 2101M/200 East

4. Generator's Phone (509) 373-2354

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 3967

C. State Transporter's ID

D. Transporter's Phone: 375-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: Central Landfill, Corrosive Trench

10. US EPA ID Number: WA 789 000 3967

G. State Facility's ID

H. Facility's Phone: (509) 376-6743

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Waste Non-regulated empty drums None None	21	DM	153	Ft^3	None
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above: 21 Empty 55 gallon drums.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name: F. J. Orsag — Signature — Date: Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Date: Month Day Year

Style F15-6 Laderman Chicago IL 60646 312 478-0900

EPA Form 8700-22 (3-84)

0000025

GENERATOR COPY

9112213691

1-16-85

Internal Letter

Rockwell International

Date December 17, 1984

No. 05000-84-088

TO: (Name, Organization, Internal Address)
. F. J. Orsag
. 2101M/200 East

FROM: (Name, Organization, Internal Address, Phone)
. H. A. Haerer
. Hazardous Waste Program
. 3-4216

Subject: DISPOSAL ANALYSIS NO. 12-21

Reference: Chemical Waste Disposal Request, November 15, 1984

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Anlaysis.

All packaging, labeling and marking of the waste must be completed in accordance with the prescribed instructions, which are based on Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. Partially completed manifests are attached for your use.

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifests. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench or to the 2727-S storage facility for subsequent offsite disposal is a generator responsibility and may be implemented after compliance with instructions in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting A. D. Poor (6-1420).

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

H. A. Haerer, Project Manager
Hazardous Waste Program

HAH:LFL:ra

cc: G. R. Cox GRC
D. R. Groth
L. F. Lust (2)

Att.

9112251792

0000029

DISPOSAL ANALYSIS NO. 12-21

Offsite Disposal

Items listed for Offsite Disposal must be properly packaged, labeled and manifested for shipment to an offsite disposal facility in accordance with the State of Washington law (Chapter 173-303). The Hanford generator has the responsibility for packaging and for shipping the waste to the offsite staging facility, 2727-S/200 West. Offsite disposal shipments originating from this facility will be arranged by Rockwell.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for offsite disposal:

- In accordance with 49 CFR 173.24, waste must be packaged in strong, tight, DOT-approved containers.
- The DOT Label(s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell Central Stores.
- The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- The weight fo the container, if over 110 pounds, must be marked on the container.
- In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, and in a color which contrasts with the container.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifest has been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifest will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

9112241393

DISPOSAL ANALYSIS NO. 12-21

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
				OFFSITE DISPOSAL					
		Waste Carbon Tetrachloride	ORM-A	UN1846	None	U211	5	55-gallon drum	Empty
				ONSITE DISPOSAL					
		Waste, Non-Regulated, Empty Drums	None	None	None	None	21	55-gallon drum	Empty

9 1 1 2 2 [illegible] 1 3 9 5

Complete und[illegible] arts and forward to: S. [illegible]DU
2760E / 200E
Rockwell

Rockwell Hanf[illegible] Operations

CHEMICAL WASTE [illegible]SPOSAL REQUEST

Logbook No. 17 / 1

Manifest(s) cross-refer.

Requested by	Telephone Number	Address	Company
F J Orzag	3-2354	2101M / 200East	RHO

Signature F J Orzag Date 11/15/84

WASTE DESCRIPTION (If more than [illegible] items, continue on the back of this form)

Item No.	*** No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	2	55 gal	0	galvanized steel	Empty, open top. No hazardous material	—	None	MT	
2	5	55 gal	0	steel	Empty, bung-type drums. Carbon Tetrachloride	L	P	MT	
3	10	55 gal	0	steel	Empty, bung-type drums. Chevron insulating oil w/petroleum distillate	L	P	MT	
4	1	55 gal	0	steel	Empty, bung-type drum Chevron [illegible] oil 68 (150-VG-68)	L	None	MT	
5	2	55 gal	0	steel	Empty, bung-type drum. Labels: "Johnson", "Hexane"	L	None	MT	
6	2	55 gal	0	steel	Empty, bung-type drum. Ethylene glycol	L	None	MT	
7	4	55 gal	0	steel	Empty, bung-type drums. No labels	L	None	MT	

Radiation Monitoring Release Survey Card Number (if applicable)

Hazards
Corrosive - C Flammable - F
Oxidizer - O Explosive - E
Poison - P

** Status
Full - F New (unused) - N
Partially Full - PF
Empty (<1 in.) - M.T.
Triple rinsed (empty drums) - TR
Reacted - Rx
Old (expired) - O

*** Indicate how many containers of this size are being offered for disposal

0U0U032

9 1 1 2 2 1 3 1 3 9 6

Complete unit ... rts and forward to: Sh. & DU 2750E/200E Rockwell

Rockwell Hanf... operations

CHEMICAL WASTE DISPOSAL REQUEST

Logbook No. 17 11

Manifest(s) cross-reference

Requested by	Telephone Number	Address	Company
F J Orsag	3-2354	2101M/200East	RHO

Signature F J Orsag Date 11/15/84

WASTE DESCRIPTION (If more than 10 items, continue on the back of this form)

Item No.	*** No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	2	55 gal	0	galvanized steel	Empty, open top. No hazardous material	—	None	MT	
2	5	55 gal	0	steel	Empty, bung-type drums. Carbon Tetrachloride	L	P	MT	FHW
3	10	55 gal	0	steel	Empty, bung-type drums. Chevron insulating oil w/petroleum distillate	L	P	MT	
4	1	55 gal	0	steel	Empty, bung-type drum Chevron utility oil 65 (ISO-VG-65)	L	None	MT	
5	2	55 gal	0	steel	Empty, bung-type drum. Labels: "Johnson", "Kerosene"	L	None	MT	
6	2	55 gal	0	steel	Empty, bung-type drum. Ethylene glycol.	L	None	MT	
7	4	55 gal	0	steel	Empty, bung-type drums. No label.	L	None	MT	

Radiation Monitoring Release Survey Card Number (if applicable)

* Hazards
Corrosive - C Flammable - F
Oxidizer - O Explosive - E
Poison - P

** Status
Full - F New (unused) - N
Partially Full - PF
Empty (<1 in.) - M.T.
Triple rinsed (empty drums) - TR
Reacted - Rx
Old (expired) - O

*** Indicate how many containers of this size are being offered for disposal

Frank,

I am sending a "Chemical Waste Disposal Request for your signature. It accounts for all the drums in that area except the 3 drums full of mercury and sodium bulbs. It includes the two blue drums near the trucks (about 100 yards north of the others) and the 2 galvanized drums sitting by themselves west of the others

There are three problems:

1. The two galvanized drums (one with a plastic liner) - item 1 have some glass and vapor bulbs that should be emptied into the 3 "electrical junk" drums. You may wish to save the plastic liner.

2. Four of the drums have liquid in them: a "Monsanto" drum, an Olin Mathieson ethylene glycol drum, an unlabeled green drum and a rusty drum in the SW corner labeled "... ELECTRIC INSULATING OIL "33". If the drums were opened, maybe all except the green one have <u>less than one inch</u> of liquid and can be classified as "empty". The green one, however, contains considerably more than one inch. Since this is an unlabeled drum

it presents a real problem. We can't call it empty and in order to dispose of it we need to identify the liquid in it. It needs to be opened and sampled. Then, depending upon the appearance of the sample, perhaps a couple of analyses can adequately identify it.

Call me if any questions you may have.

Len Lust
3-4802

9/27/84

SE of Powerhouse, So. of Tracks

3 open top 55 gal empty drums (1 w/ plastic liner), galvanized
no labels.

24 Bung type 55 gal drums, empty or nearly empty. Painted or rusty
Labels - 5 CCl_4
blue 9 Chevron insulating oil (contains Petroleum 1974: Hate)
blue 1 Chevron Utility oil 69 (ISO-VG-68)
- 1 Johnson's
- 1 Monsanto
2 Ethylene glycol
1 Rust [illegible]

3 55 gal galvanized. Filled w/ funk-
ally GENELEX or SUPERSOX 50 w
50Z/H (Made in England) light Tuber (?)(?)

~ 100 drums: Dextrol, Superfilmer, turbine oil etc
under hoppers at powerhouse (south end.
Few Fibers drum

2 green drums by dumpster no of powerhouse.
one labeled SOLVEN (?)

Between 2713 E and 2715 ~~6~~ 3 unlabeled empties
2 MEK Returnable containers
1 THINNER 265 VWR FLAMMABLE 5/0

0000036

Monsanto drum not empty.
Green drum - no label not empty

[illegible]

[illegible]

0000037

Frank,

I am sending a "Chemical Waste Disposal Request" for your signature. It accounts for all the drums in that area except the 3 drums full of mercury and sodium bulbs. It includes the two blue drums near the trucks (about 100 yards north of the others) and the 2 galvanized drums sitting by themselves west of the others.

There are three problems:

1) The two galvanized drums (one with a plastic liner) - that I have some glass and vapor bulbs that should be emptied into the 3 "electrical junk" drums. You may wish to save the plastic liner.

2) Four of the drums have liquid in them: a "Monsanto" drum, an Olin Mathieson ethylene glycol drum, an unlabeled green drum and a rusty drum in the SW corner labeled "... ELECTRIC INSULATING OIL "33". If the drums were opened, maybe all except the green one have less than one inch of liquid and can be classified as "empty". The green one, however, contains considerably more than [illegible] ... The [illegible]

0000038

it presents a real problem. We can't call it empty and in order to dispose of it we need to identify the liquid in it. It needs to be opened and sampled. Then, depending upon the appearance of the sample, perhaps a couple of analyses can adequately identify it.

Call me if any questions arise in my absence

Lee Frost
3-[illegible]

11/15/86

Lee

Remaining barrels have now been verified as empty and you should be able to dispose of them according to plan.

Let me know if any problems remain, please

Frank Ong
3-23[illegible]

0000039

On Friday, November 8th, 85 trench #19-N, the Oxidizer Trench at the Central Landfill was excavated in order to remove drums containing sodium nitrite. All other waste drums previously manifested to this trench were also removed. The following information is to be attached to each hazardous waste manifest which was affected by the excavation.

Manifest #	Status of Waste Drums After Trench Excavation:
RHO-13-33	Drums disposed to trash trench, central landfill.
RNL-7-23	Drums were returned back to oxidizer trench.
UNC-12-133	Drums were returned back to oxidizer trench.
RHO-5-31	13 drums of sodium nitrite were not located in the oxidizer trench. It is assumed that burial took place in the corrosive trench, since the manifest gives a disposal date to the chemical trench.
RHO-[illegible]-9	Drums were disposed to trash trench, central landfill
RHO-[illegible]-1[illegible]	Drums were disposed to trash trench, central landfill
RHO-[illegible]-5	Drums were disposed to trash trench, central landfill
RHO-[illegible]-3	Drums were disposed to trash trench, central landfill.
RNL-7-35	3 lab packs on this disposal request were not located in the oxidizer trench. It is assumed that part burial occured in the corrosive trench, since the manifest shows disposal in the chemical trench.
RHO-[illegible]-1	Drums were disposed to trash trench, central landfill
[illegible]	3 drums of sodium nitrite [illegible] restricted to the 2727-S storage fac[illegible] (EHW) West because of the [illegible] E-W [illegible]. For the 10 drums of hydrated nickel listed on the manifest, status [illegible] drum was also transported to 2727-S, for storage (EHW because of carcinogenic waste designation). At time of transport drum was not known. The hydrated nickel drum was opened at 2727-S for clear identification. The other 9 drums of hydrated nickel were not found in the oxidizer trench. It is assumed they were buried in the corrosive trench.
RHO-[illegible]-33	Drums redisposed to the oxidizer trench.
RNL-[illegible]-7	Drums were disposed to trash trench, central landfill.

0000040

Rockwell Hanford Operations | DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD

STORAGE/DISPOSAL ACTIVITY

Onsite Disposal (D81):
- ☐ Oxidizer Trench
- ☒ Corrosive Trench
- ☐ Asbestos Trench

Non-PCB Onsite Storage (SO11)/Offsite TSD: ☐

PCB Onsite Storage/Offsite Disposal: ☐

ORIGINATOR

End Function: B53100/ G531AA

Manifest Number: RHO 12-21

Company: RHO

Building/Area: 2101M/200 East

Contact Person: F. J. Orsag

Address/Phone: 2101M/200 East 373-2354

PHYSICAL DESCRIPTION

Item No.	Description Of Waste	DOT Hazard Class	WDOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT^3)	Generating Facility Bldg./Area
1	Empty Non-regulated drums (21)	None	None	668	154	2101M/200 East
2						
3						
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form.

Total Weight (Front & Back) 668 KG

Total Volume (Front & Back) 154 FT^3

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)

ONSITE DISPOSAL:

Disposal Date:

Signature: Disposer

Trench Location:

Beginning Coordinates: N W

Ending Coordinates: N W

NON PCB OFFSITE DISPOSAL

Storage Time:

Arrival Date:

Date Shipped:

Offsite TSD

Facility Name:

Facility Address:

TSD Process:

Landfill (D81): ☐ Disposal Date

Treatment (TO ____): ☐ Treatment Date

Specify Treatment Activity

Other (_____): ☐

Specify Activity

PCB OFFSITE DISPOSALS

Storage Time:

Beginning Date:

Date Shipped:

Offsite Disposal:

Facility Name:

Facility Address:

COMMENTS:

A-6400-249 (11-84)

000305

9112221.1104

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 — Manifest Document No.

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
F. J. Orsag
2101M/200 East
— RHO 12-21B

4. Generator's Phone (509) 373-2354

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Central Landfill
Corrosive Trench

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone (509) 376-6748

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Waste Non-regulated empty drums None None	21	DM	153	Ft^3	None
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
21 Empty 55 gallon drums.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name: F. J. Orsag — Signature: Approved by L J Lust — Date: Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Timothy W Toberg — Signature: Tim Toberg — Date: Month 1 Day 16 Year 85

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: D E Phelps — Signature: D E Phelps — Date: Month 1 Day 16 Year 85

Style F15-6 Labelmaster, Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

000306

TRANSPORTER #1

DISPOSAL PACKET NUMBER

P85-013

9 1 1 2 2 4 0 1 4 0 6

Please print or type. Form designed for use on elite (12-pitch) typewriter

Form Approved OMB No 2050-0404 Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: WA 789 000 8967 | Manifest Document No: UNC 13-338

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address: KH Smith, 105 N/125/100 N

A. State Manifest Document Number

B. State Generator's ID

4. Generator's Phone (509) 373-4940

5. Transporter 1 Company Name: Rockwell Hanford | 6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name | 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: Central Landfill, Corrosive Trench | 10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone (509) 378-6748

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Methyl Ethyl Ketone, Flammable Liquid, UN 1193	11	DM	90	Ft^3	D001
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above: 11 55-gal steel drums, empty

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Certified by

Printed/Typed Name: KENNETH H Smith | Signature: KH Smith L D Luit | Date: Month 1 Day 23 Year 85

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J.A. Aldridge | Signature: J. A. Aldridge | Date: Month 1 Day 23 Year 85

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: D E Phelps | Signature: D E Phelps | Date: Month 1 Day 23 Year 85

Style F15-6 Labelmaster Chicago IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

0000067

ORIGINAL—RETURN TO GENERATOR

9111221107

1-23-85

12-333

OUTGOING LTR. NO.
R84-4381
INCOMING LTR. NO.

REPLY DUE

DIST:	LTR.	ENCL.	APPR.
Ash, E.B.			
Bartholomew, D.C.			
Bellefontaine, M.			
Carey, J.M.			
Crawford, A.C.	✓		
Deichmann, J.L.			
Di Pol, C.V.			
Donahoe, J.W.			
Gimore, R.J.			
Grube, R.E.			
Hammond, R.D.			
Hanneman, R.E.			
Kiorsr, J.E.			
Knight, B.E.	✓		
Lemon, M.P.			
- P.E.	✓		
- J.G.			
McDermott, R.J.			
Ogorow, L.R.			
Pincus, K.J.			
Patterson, J.W.	✓		
Perkins, J.D.			
Reeder, A.L.			
Reecker, J.H.	✓		
Salinas, C.M.			
Weil, V.R.			
Zane, L.L.			
Contract Administrator	✓		
Central Files	✓✓		
DR Groth	✓✓✓		
LW Rodgers	✓✓		
LR Just (2)	✓✓		
GR Cox GRC	✓✓✓		
DR Prescher	✓		
DD Weinrich	✓		
WF Heine	✓		
MA Haeger	✓✓✓		
CG [illegible]	✓		

DATE DEC 14 1984

Rockwell Hanford Operations
Energy Systems Group
P.O. Box 800
Richland, WA 99352

Rockwell International

In reply, refer to letter R84-4381

DEC 14 1984

Mr. K. H. Smith
105 N/125/100 N Area
UNC Nuclear Industries
Post Office Box 490
Richland, Washington 99352

Dear Mr. Smith:

DISPOSAL ANALYSIS NO. 12-33

Reference: Chemical Waste Disposal Request, November 16, 1984

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

All packaging, labeling and marking of the waste must be completed in accordance with the prescribed instructions, which are based on Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. A partially completed manifest is attached for your use.

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifest. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench or to the 2727-S storage facility for subsequent offsite disposal is a generator responsibility and may be implemented after compliance with instructions in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting A. D. Poor (6-1420).

0000065

Rockwell International

DEC 14 1984

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

Very truly yours,

H A Haerer

H. A. Haerer, Project Manager
Hazardous Waste Program

HAH:LFL:ra

Att.

0000069

DISPOSAL ANALYSIS NO. 12-33

Offsite Disposal

Items listed for Offsite Disposal must be properly packaged, labeled and manifested for shipment to an offsite disposal facility in accordance with the State of Washington law (Chapter 173-303). The Hanford generator has the responsibility for packaging and for shipping the waste to the offsite staging facility, 2727-S/200 West. Offsite disposal shipments originating from this facility will be arranged by Rockwell.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for offsite disposal:

- In accordance with 49 CFR 173.24, waste must be packaged in strong, tight, DOT-approved containers.
- The DOT Label(s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell central stores.
- The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.

Onsite Disposal

Items listed for Onsite Disposal must be properly packaged, labeled and manifested for disposal at the Hanford Nonradioactive Hazardous Waste Chemical Trench.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for onsite disposal:

- The DOT Label(s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell Central Stores.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifest has been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifest will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

9112231410

DISPOSAL ANALYSIS NO. 12-33

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
				OFFSITE DISPOSAL					
1		Waste Hydrazine, Aqueous Solution	Corrosive Material	UN2030	Corrosive	U133	30	35-gallon Plastic	Empty
2		Waste Hydrazine, Aqueous Solution	Corrosive Material	UN2030	Corrosive	U133	3	55-gallon Plastic (2) or Steel (1)	Empty
				ONSITE DISPOSAL					
3		Waste Methyl Ethyl Ketone	Flammable Liquid	UN1193	Flammable Liquid	D001	11	55-gallon Steel	Empty

9 1 1 2 2 4 3 1 4 1 2

31802

Complete unshaded areas and forward to SWP&DU 2750E/200E Rockwell

Rockwell Hanford Operations

CHEMICAL WASTE DISPOSAL REQUEST

Logbook No. 12-3

Manifest(s) cross-reference

Requested by: KEN SMITH

Telephone Number: 34940

Address: 105N/125

Company: UNC

Signature: K H Smith

Date: 11-16-84

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No.	No. of Containers***	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	30	35GAL	4.5cuft	PLASTIC	HYDRAZINE 35% AQUEOUS SOLUTION	S	C	MT	
2	3	55GAL	7 cu ft	PLASTIC METAL	CATALYZED HYDRAZINE	S		MT	
3	11	55GAL	7cuft	METAL	METHYL-ETHYL-KETONE	S	F	MT	

Radiation Monitoring Release Survey Card Number (if applicable): Will be survey prior to shipment

* Hazards: Corrosive - C; Flammable - F; Oxidizer - O; Explosive - E; Poison - P

** Status: Full - F; New (unused) - N; Partially Full - PF; Empty (<1 in.) - M.T.; Triple rinsed (empty drums) - TR; Reacted - Rx; Old (expired) - O

*** Indicate how many containers of this size are being offered for disposal

9 1 1 2 2 4 3 1 4 1 3

d parts and forward
SWP&DU
2750E / 200E
Rockwell

Rockwell Hanfo Operations

CHEMICAL WASTE DISPOSAL REQUEST

Logbook No. 12-33

Manifest(s) cross-reference

Requested by	Telephone Number	Address	Company
KEN Smith	34940	105N/125	UNC

Signature KH Smith Date 11-16-84

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No	*** No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	30	35GAL	4.5cuft	PLASTIC & PLASTIC	HYDRAZINE 35% AQUEOUS SOLUTION	S	C	MT	
2	3	55GAL	7 cu ft	METAL	CATALYZED Hydrazine	S		MT	
3	11	55GAL	7cuft	METAL	METHYL-ETHYL-KETONE	S	F	MT	

Radiation Monitoring Release Survey Card Number (if applicable) Will be survey prior to Shipment

* Hazards
Corrosive - C Flammable - F
Oxidizer - O Explosive - E
Poison - P

** Status
Full - F New (unused) N
Partially Full - PF
Empty (<1 in.) - M.T.
Triple rinsed (empty drums) - TR
Reacted - Rx
Old (expired) - O

*** Indicate how many containers of this size are being offered for disposal

GUARD 73

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 | Manifest Document No. UNC 12-338 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
KH Smith
105 N/125/100 N

4. Generator's Phone (509) 373-4940

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford | 6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name | 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Central Landfill
Corrosive Trench

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone (509) 378-6748

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Waste Methyl Ethyl Ketone Flammable Liquid UN 1193	11	DM	80	Ft3	D001
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
11 55-gal steel drums, empty

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name: KENNETH H SMITH | Signature: Certified by L J Hurt | Date: Month 1 Day 23 Year 85

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J.A. Aldridge | Signature: J. A Aldridge | Date: Month 1 Day 23 Year 85

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: D E Phelps | Signature: D E Phelps | Date: Month 1 Day 23 Year 85

Style F15-6 Labelmaster, Chicago, IL 60646 (312) 478-0900 EPA Form 8700-22 (3-84)

000300

TRANSPORTER #1

DISPOSAL PACKET NUMBER

P85-024

9 1 1 2 2 4 3 1 4 1 5

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2000-0404 Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: WA 789 000 8967 | Manifest Document No.

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
RHO 12-25B
P. J. Hamacher
271-B/200 East

4. Generator's Phone (509) 373-2558

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Central Landfill
Corrosive Trench

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone (509) 376-6748

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Waste, Non-regulated empty drums None None	6	DM	34	Ft^3	None
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name | Signature: Certified by L. E. Just | Date: Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: E. F. Rivas | Signature: E. F. Rivas | Date: Month 2 Day 22 Year 55

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: D E Phelps | Signature: D E Phelps | Date: Month 5 Day 17 Year 85

Style F15-6 Page master Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

000004

9112221116

12-25-B

4-11-85

C. E. PHELPS

J. A. REDDICK (2750E/A-119)

Enclosed is a HAZARDOUS WASTE MANIFEST which has not been signed off as arriving at the LANDFILL, ALTHOUGH the TRANSPORTER picked it up. Will you please complete the form if you can? The top can be corrected if the DRUMS went to the DRUM STORAGE AREA rather than the CORROSIVE TRENCH. Please return the completed manifest to me. thanks for helping us get this straightened out. (We need the signature to know where those drums are.)

Thanks!

Julie Reddick

(PS: I've just joined Don Groth's Solid Waste Processing & Disposal Unit)

"TO MAKE USE WEST FOR SAFETY FIRST"

0000042

Rockwell Hanford Operations	DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD

STORAGE/DISPOSAL ACTIVITY

Onsite Disposal (D81):
- ☐ Oxidizer Trench
- ☒ Corrosive Trench
- ☐ Asbestos Trench

Non-PCB Onsite Storage (S01)/Offsite TSD: ☐

PCB Onsite Storage/Offsite Disposal: ☐

ORIGINATOR

End Function: WD	Manifest Number: RHO 12-25B
Company: Rockwell Hanford	Building/Area: 271-B/200 East
Contact Person: P. J. Hamacher	
Address/Phone: 271-B/200 East 373-2558	

PHYSICAL DESCRIPTION

Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT^3)	Generating Facility Bldg. Area
1	Non-regulated, empty drums (6)	None	None	127	34	271-B/200 E
2						
3						
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form

Total Weight (Front & Back) 127 KG

Total Volume (Front & Back) 34 FT^3

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)

ONSITE DISPOSAL

Disposal Date:

Signature: Disposer

Trench Location:

Beginning Coordinates: N W

Ending Coordinates: N W

NON PCB OFFSITE DISPOSAL

Storage Time:

Arrival Date:

Date Shipped:

Offsite TSD

Facility Name:

Facility Address:

TSD Process:

Landfill (D81): ☐ Disposal Date

Treatment (TO ___): ☐ Treatment Date

Specify Treatment Activity

Other (_____): ☐

Specify Activity

PCB OFFSITE DISPOSALS

Storage Time:

Beginning Date:

Date Shipped:

Offsite Disposal:

Facility Name:

Facility Address:

COMMENTS

0000043

A-6400-249 (11-84)

Rockwell Hanford Operations | DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD

STORAGE/DISPOSAL ACTIVITY

Onsite Disposal (D81)
- ☐ Oxidizer Trench
- XX Corrosive Trench
- ☐ Asbestos Trench

Non-PCB Onsite Storage (S01)/Offsite TSD ☐

PCB Onsite Storage/Offsite Disposal ☐

ORIGINATOR

End Function: WD53C

Manifest Number: RHO 12-258

Company: Rockwell Hanford

Building/Area: 271-B/200 East

Contact Person: P. J. Hamacher

Address/Phone: 271-B/200 East 373-2558

PHYSICAL DESCRIPTION

Item No.	Description Of Waste	DOT Hazard Class	WDOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT³)	Generating Facility Bldg./Area
1	Non-regulated, empty drums (6)	None	None	127	34	271-B/200 E
2						
3						
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form

Total Weight (Front & Back) 127 KG

Total Volume (Front & Back) 34 FT³

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)

ONSITE DISPOSAL

Disposal Date:

Signature: Disposer

Trench Location:

Beginning Coordinates: N W

Ending Coordinates: N W

NON PCB OFFSITE DISPOSAL

Storage Time:

Arrival Date:

Date Shipped:

Offsite TSD

Facility Name:

Facility Address:

TSD Process:

Landfill (D81): ☐ Disposal Date

Treatment (TO ___): ☐ Treatment Date

Specify Treatment Activity

Other (_____): ☐

Specify Activity

PCB OFFSITE DISPOSALS

Storage Time:

Beginning Date:

Date Shipped:

Offsite Disposal:

Facility Name:

Facility Address:

COMMENTS.

0000044

9112218119

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB No. 2000-0404 Expires 7-31-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: WA 789 000 8967 | Manifest Document No

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: RHO 12-258
P. J. Hamacher
271-B/200 East

A. State Manifest Document Number

B. State Generator's ID

4. Generator's Phone (509) 373-2558

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address:
Central Landfill
Corrosive Trench

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone (509) 376-6748

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Waste, Non-regulated None None empty drums	6	DM	34	Ft^3	None
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Certified by L. F. Lust

Printed/Typed Name | Signature | Date Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: E. F. Rivas | Signature: E. F. Rivas | Date Month 2 Day 22 Year 55

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date Month Day Year

Style F15-6 Laboratory Chicago IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

0000045

9112221420

12-25-B

Internal Letter

Rockwell International

Date: December 26, 1984

No: 05000-HAH-85-004

TO (Name Organization Internal Address): P. J. Hamacher
271-B/200 East

FROM (Name Organization Internal Address Phone): H. A. Haerer
Hazardous Waste Program

3-4216

Subject: DISPOSAL ANALYSIS NO. 12-25

Reference: Chemical Waste Disposal Request January 10, 1985

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

All packaging, labeling and marking of the waste must be completed in accordance with the prescribed instructions, which are based on Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. Partially completed manifests are attached for your use.

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifests. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench or to the 2727-S storage facility for subsequent offsite disposal is a generator responsibility and may be implemented after compliance with instructions in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting A. D. Poor (6-1420).

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

H A Haerer

H. A. Haerer, Project Manager
Hazardous Waste Program

HAH:LFL:kh

Att.

cc: G. R. Cox GRC
D. R. Groth
L. F. Lust (2)
H. C. Boynton

0000046

DISPOSAL ANALYSIS NO. 12-25

Offsite Disposal

Items listed for Offsite Disposal must be properly packaged, labeled and manifested for shipment to an offsite disposal facility in accordance with the State of Washington law (Chapter 173-303). The Hanford generator has the responsibility for packaging and for shipping the waste to the offsite staging facility, 2727-S/200 West. Offsite disposal shipments originating from this facility will be arranged by Rockwell.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for offsite disposal:

- In accordance with 49 CFR 173.24, waste must be packaged in strong, tight, DOT-approved containers. Item 3, a Flammable Liquid, must be in DOT Specification 17C or 17E steel drums.
- The DOT Label(s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell Central Stores.
- The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- The total weight, if over 110 pounds, must be marked on the container.
- In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, and in a color which contrasts with the container.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest and a Dangerous Waste Treatment, Storage and Disposal Record. These documents have been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the manifest in the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the documents will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

DISPOSAL ANALYSIS NO. 12-25

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
				OFFSITE DISPOSAL					
1		Waste Di-2-Ethyl-hexyl phosphoric acid	Corrosive Material	NA1902	Corrosive	D002	4	55-gallon drum	55 gallons
2		Waste tributyl phosphate	None	None	None	WT02	4	55-gallon drum	55 gallons
3		Waste Isopropanol	Flammable Liquid	UN1219	Flammable Liquid	D001	4	55-gallon drum	55 gallons
6		Waste 1-1-1-Tri-chloroethane	ORM-A	UN2831	None	U226	14	55-gallon drum	Empty
				ONSITE DISPOSAL					
4		Non-regulated empty drums	None	None	None	None	2	55-gallon drum	Empty
5		Non-regulated empty drums	None	None	None	None	4	35-gallon drum	Empty

000034

9 1 1 2 2 4 3 1 4 2 4

Complete unshaded and forward to: SWP&
2760E/200E
Rockwell

Rockwell Hanford C ions

CHEMICAL WASTE DISI AL REQUEST

Logbook No. 12-25

Manifest(s) cross reference

Requested by	Telephone Number	Address	Company
Paul Hamacher	373-2558	271-B, 200E	Rockwell

Signature Paul J. Hamacher P.J. Hilbard Date 1/10/85

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No.	No. of Containers***	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	4	55 gal.	220 gal.	Steel Drums	DI-2-ETHYLHEXYL PHOSPHORIC ACID	L	C,P	F	
2	4	55 gal.	220 gal.	Steel Drums	TRIBUTYL PHOSPHATE	L	C,P	F	
3	4	55 gal.	220 gal.	Steel Drums	ISOPROPYL ALCOHOL ANHYDROUS	L	F,C,P	F	
4	2	55 gal.	<2 gal.	Stainless Steel Drums	NITRIC ACID	L	C,P	Single Rinse M.T.	
5	4	35 gal.	<2 gal.	Steel Drums	Lanthanum/Neodymium	L	O	Single Rinse M.T.	
6	14	55 gal.	<2 gal.	Steel Drums	Chlorothene VG (INHIBITED 1,1,1-TRICHLOROTHENE)	L	F,P	Single Rinse M.T.	

Radiation Monitoring Release Survey Card Number (if applicable)

* Hazards
Corrosive - C Flammable - F
Oxidizer - O Explosive - E
Poison - P

** Status
Full - F New (unused) - N
Partially Full - PF
Empty (<1 in.) - M.T.
Triple rinsed (empty drums) - TR
Reacted - Rx
Old (expired) - O

*** Indicate how many containers of this size are being offered for disposal

A-6400-245 (8/84)

Rockwell Hanford Operations	DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD

STORAGE/DISPOSAL ACTIVITY

Onsite Disposal (D81):
- ☐ Oxidizer Trench
- ☒ Corrosive Trench
- ☐ Asbestos Trench

Non-PCB Onsite Storage (S01)/Offsite TSD: ☐

PCB Onsite Storage/Offsite Disposal: ☐

ORIGINATOR

End Function: WD	Manifest Number: RHO 12-258
Company: Rockwell Hanford	Building/Area: 271-B/200 East
Contact Person: P. J. Hamacher	
Address/Phone: 271-B/200 East 373-2558	

PHYSICAL DESCRIPTION

Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT^3)	Generating Facility Bldg./Area
1	Non-regulated, empty drums (6)	None	None	127	34	271-B/200 E
2						
3						
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form.

Total Weight (Front & Back) 127 KG

Total Volume (Front & Back) 34 FT^3

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)

ONSITE DISPOSAL:

Disposal Date:

Signature: Disposer

Trench Location:

Beginning Coordinates: N W

Ending Coordinates: N W

NON PCB OFFSITE DISPOSAL

Storage Time:

Arrival Date:

Date Shipped:

Offsite TSD

Facility Name:

Facility Address:

TSD Process:

Landfill (D81): ☐ Disposal Date

Treatment (TO ____): ☐ Treatment Date

Specify Treatment Activity

Other (_____): ☐

Specify Activity

PCB OFFSITE DISPOSALS

Storage Time:

Beginning Date:

Date Shipped:

Offsite Disposal:

Facility Name:

Facility Address:

COMMENTS:

0000050

A-6400-249 (11-84)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 | Manifest Document No. RHO 12-25B

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
P. J. Hamacher
271-B/200 East

4. Generator's Phone (509) 373-2558

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Central Landfill
Corrosive Trench

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone (509) 376-6748

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Waste, Non-regulated None None empty drums	6	DM	34	Ft^3	None
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Certified by L. F. Lust

Printed/Typed Name | Signature | Date Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date Month Day Year

0000051

GENERATOR

TRANSPORTER

FACILITY

Style F15-6 Labelmaster Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

Rockwell Hanford Operations	DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD

STORAGE/DISPOSAL ACTIVITY

Onsite Disposal (D81): ☐ Oxidizer Trench ☐ Corrosive Trench ☐ Asbestos Trench

Non-PCB Onsite Storage (S01)/Offsite TSD: ☒

PCB Onsite Storage/Offsite Disposal: ☐

ORIGINATOR

End Function: WD

Manifest Number: RHO 12-25A

Company: Rockwell Hanford

Building/Area: 271-B/200 East

Contact Person: P. J. Hamacher

Address/Phone: 271-B/200 East 373-2558

PHYSICAL DESCRIPTION

Item No.	Description Of Waste	DOT Hazard Class	WDOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT^3)	Generating Facility Bldg./Area
1	Waste Di-2-Ethylhexyl phosphoric acid (4)	Corrosive Material	D002	835	29	271-B/200 E
2	Waste Tributyl phosphate(4)	None	WT02	835	29	271-B/200 E
3	Waste Isopropanol (4)	Flammable Liquid	D001	835	29	271-B/200 E
4	Waste 1-1-1-Trichloroethane (14)	ORM-A	U226	445	103	271-B/200 E
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form.

Total Weight (Front & Back) 2950 KG

Total Volume (Front & Back) 190 FT^3

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)

ONSITE DISPOSAL:

Disposal Date:

Signature: Disposer

Trench Location:

Beginning Coordinates: N W

Ending Coordinates: N W

NON PCB OFFSITE DISPOSAL

Storage Time:

Arrival Date:

Date Shipped:

Offsite TSD

Facility Name:

Facility Address:

TSD Process:

Landfill (D81): ☐ Disposal Date

Treatment (TO ___): ☐ Treatment Date

Specify Treatment Activity

Other (_____): ☐

Specify Activity

PCB OFFSITE DISPOSALS

Storage Time:

Beginning Date:

Date Shipped:

Offsite Disposal:

Facility Name:

Facility Address:

COMMENTS:

0000052

A-6400-249 (11-84)

9112221327

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 | Manifest Document No.

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address RHO 12-25A
P. J. Hamacher
271-B/200 East Area

4. Generator's Phone (509) 373-2558

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: 2727-S/200 West

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone (509) 373-3679

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Waste Di-2-ethylhexyl phosphoric acid	Corrosive Material	NA1902	4	DM	1837	P	D002
b.	Waste Tributyl phosphate	None	None	4	DM	1837	P	WT02
c.	Waste 1-1-1-Trichloro-ethane (Empty drums)	ORM-A	UN2831	14	DM	980	P	U226
d.	Waste Isopropanol	Flammable Liquid	UN1219	4	DM	1837	P	D001

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Certified by

Printed/Typed Name	Signature	Date (Month Day Year)
	L.F. Lust	

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
	00000631	

Style F15-6 Labelmaster Chicago IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

9 1 1 2 2 1 1 1 2 3

9 1 1 2 2 1 3 1 4 2 9

Complete unsh[illegible]ts and forward to S. [illegible]U
2750E / 200E
Rockwell

Rockwell Hanfor[illegible]erations

CHEMICAL WASTE D[illegible]OSAL REQUEST

Logbook No. 12-2

Manifest(s) cross-reference /

Requested by	Telephone Number	Address	Company
Paul Hamacher	373-2558	271-B, 200E	Rockwell

Signature Paul J. Hamacher PJ Hildebrand Date 1/10/85

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No	*** No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	4	55 gal.	220 gal.	Steel Drums	DI-2-ETHYLHEXYL PHOSPHORIC ACID	L	C, P	F	
2	4	55 gal.	220 gal.	Steel Drums	TRIBUTYL PHOSPHATE	L	C, P	F	
3	4	55 gal.	220 gal.	Steel Drums	ISOPROPYL ALCOHOL ANHYDROUS	L	F, C, P	F	
4	2	55 gal.	<2 gal.	Stainless steel Drums	NITRIC ACID	L	C, P	Single Rinse M.T.	
5	4	35 gal.	<2 gal.	Steel Drums	Lanthanum / Neodymium	L	O	Single Rinse M.T.	
6	14	55 gal.	<2 gal.	Steel Drums	Chlorothene VG (INHIBITED 1,1,1 - TRICHLOROTHENE)	L	F, P	Single Rinse M.T.	

Radiation Monitoring Release Survey Card Number (if applicable)

Hazards
Corrosive - C Flammable - F
Oxidizer - O Explosive - E
Poison - P

** Status
Full - F New (unused) - N
Partially Full - PF
Empty (<1 in.) - M.T.
Triple rinsed (empty drums) - TR
Reacted - Rx
Old (expired) - O

*** Indicate how many containers of this size are being offered for disposal

0100054

A 6400 245 (8 84)

9 1 1 2 2 [illegible] 1 4 3 0

Complete and parts and forward to SW. .JU 2750E / 200E Hockwell

Rockwell Hanford Operations

CHEMICAL WASTE DISPOSAL REQUEST

Logbook No. 12-23

Manifest(s) cross reference

Requested by	Telephone Number	Address	Company
Paul Hamacher	373-2558	271-B, 200E	Rockwell

Signature Paul J. Hamacher P.J. Hamacher Date 1/10/85

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No	*** No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	4	55 gal.	220 gal.	Steel Drums	Corrosive NA 1902 D002 DI-2-ETHYLHEXYL PHOSPHORIC ACID	L	C, P	F	1937 lb 895 kg 295 ft³
2	4	55 gal.	220 gal.	Steel Drums	Oral rat 3000 mg/kg Poisonous NITRO 2727-5 TRIBUTYL PHOSPHATE (Liquid)	L	C, P	F	1937 lb 895 kg 295 ft³
3	4	55 gal.	220 gal.	Steel Drums	Flammable Liquid UN 1219 FP 55F IGNITE metal ignite ISOPROPYL ALCOHOL ANHYDROUS	L	F, C, P	F	1937 lb. 895 kg 295 ft³
4	2	55 gal.	<2 gal.	Stainless Steel Drums	NITRIC ACID Not regulated (MT, rinsed)	L	C, P	Single Rinse M.T.	110 lb 54 kg 15 ft³
5	4	35 gal.	<2 gal.	Steel Drums	Lanthanum / Neodymium Not regulated (MT, rinsed)	L	O	Single Rinse M.T.	160 lb 73 kg 19 ft³
6	14	55 gal.	<2 gal.	Steel Drums	1-1-1 Trichloroethane ORM-A, INHIBITED 1,1,1 - Chlorothene VG (TRICHLOROTHENE) UN 2831 No Label 11 326 EHW	L	F, P	Single Rinse M.T.	980 lb 445 kg 103 ft³

Radiation Monitoring Release Survey Card Number (if applicable)

000 0055

* Hazards
Corrosive C — Flammable - F
Oxidizer - O — Explosive - E
Poison P

** Status
Full - F — New (unused) - N
Partially Full - PF
Empty (<1 in.) - M.T.
Triple rinsed (empty drums) - TR
Reacted - Rx
Old (expired) - O

*** Indicate how many containers of this size are being offered for disposal

A 6400 245 (8 84)

9 1 1 2 2 0 3 1 4 3 1

Complete u[illegible]ed parts and forward to SWP&DU 2750E / 200E Rockwell

Rockwell Han[illegible] Operations

CHEMICAL WASTE DISPOSAL REQUEST

Logbook No 12-[illegible]

Manifest(s) cross reference

Requested by	Telephone Number	Address	Company
Paul Hamacher	373-2558	271-B, 200E	Rockwell

Signature Paul J. Hamacher P.J. Hilbard

Date 1/10/85

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No.	*** No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	4	55gal.	220gal.	Steel Drums	DI-2-ETHYLHEXYL PHOSPHORIC ACID	L	C,P	F	
2	4	55gal.	220gal.	Steel Drums	TRIBUTYL PHOSPHATE	L	C,P	F	
3	4	55gal.	220gal.	Steel Drums	ISOPROPYL ALCOHOL ANHYDROUS	L	F,C,P	F	
4	2	55gal.	<2gal.	Stainless Steel Drums	NITRIC ACID	L	C,P	Single Rinse M.T.	
5	4	35gal.	<2gal.	Steel Drums	Lanthanum/Neodymium	L	O	Single Rinse M.T.	
6	14	55gal.	<2gal.	Steel Drums	Chlorothene VG (INHIBITED 1,1,1 - TRICHLOROTHENE)	L	F,P	Single Rinse M.T.	

Radiation Monitoring Release Survey Card Number (if applicable)

Hazards
Corrosive - C
Oxidizer - O
Poison - P
Flammable - F
Explosive - E

** Status
Full - F
New (unused) - N
Partially Full - PF
Empty (<1 in.) - M.T.
Triple rinsed (empty drums) - TR
Reacted - Rx
Old (expired) - O

*** Indicate how many containers of this size are being offered for disposal

9300035

9 1 1 2 2 [illegible] 1 [illegible] 3 2

Complete ded parts and forward to: SWP&DU L. Elliott 2750E/200E ← Rm A-105 Rockwell	Rockwell Hr d Operations **CHEMICAL WASTE DISPOSAL REQUEST**	Logbook No. 1, 25 Manifest(s) cross-reference

Requested by	Telephone Number	Address	Company
Paul Hannacher	373-2801	271B, Rm 211A, 2E	RHO

Signature Paul J Hannacher J O Briggs 11/7/84 Date 11/07/84

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No.	*** No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	12	55 gal. Drums	~ 600 gal.	steel	DI-2-ETHYLHEXYL Phosphoric Acid & TriButyL Phosphate	L	C, P	F, PF	
2	16	55 gal. Drums	-0-	steel	Chloroethane UG, Nitric Acid	L	F, C, P	M.T.	
3	4	30 to 35 gal. Drums	-0-	steel	Lanthanum/Neodymium	L	F, P	M.T.	
4	5	55 gal. Drums	~230 gal.	steel	USED OIL	L, S	F	F, PF	
5	5	30 gal. Trashcan	75 gal. ~	steel	Sodium Sulfate, Sodium Gluconate	S	P	PF	

Paul is preparing broken drums for further sampling #4: Radio a new request, also sampling PCB, Flash Pt assay,

Radiation Monitoring Release Survey Card Number (if applicable)

Hazards
Corrosive - C Flammable - F
Oxidizer - O Explosive - E
Poison - P

** Status
Full - F New (unused) - N
Partially Full - PF
Empty (<1 in.) - M.T.
Triple rinsed (empty drums) - TR
Reacted - Rx
Old (expired) - O

*** Indicate how many containers of this size are being offered for disposal

0000001

9 1 1 2 2 [illegible] 1 1 3 3

Complete unp[illegible]orts and forward to: [illegible] JU L Klust 2780E/200E ← Rm A-105 Rockwell

Rockwell Hanf[illegible] Operations

CHEMICAL WASTE [illegible]POSAL REQUEST

Logbook No. 12

Manifest(s) cross-refer

Requested by	Telephone Number	Address	Company
Paul Hamacher	373-2801	271B, Rm 211A, 2[illegible]	RHO

Signature Paul J. Hamacher J.O. Briggs 11/7/84 Date 11/07/84

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No.	*** No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	12	55 gal. Drums	~ 600 gal.	steel	DI-2-ETHYLHEXYL Phosphoric Acid + TriButyl Phosphate	L	C, P	F, PF	
2	16	55 gal. Drums	-0-	steel	Chlorothene VG, Nitric Acid KJ 2975...	L	F, C, P	M.T.	
3	4	30 OR 35 gal. Drums	-0-	steel	Lanthanum/Neodymium	L	F, P	M.T.	
4	5	55 gal. Drums	~230 gal.	steel	USED OIL	L, S	F	F, PF	
5	5	30 gal. Trashcan	75 gal. ~	steel	Sodium Sulfate, Sodium Gluconate open top w/ lid	S	P	PF	
1	TBP Oral rat	3000 mg/kg	= Poison D	Not regulated					
	di-2-ethyl hexyl phosphoric acid				DI-(2 ethylhexyl) phosphoric acid	Corrosive Material NA1902	Corrosive	D002	Empty
2	1-1-1 Trichloroethane			EHW		ORM-A UN2831	None	U226	Empty
	Nitric Acid				Nitric Acid Mixture (%)	Corrosive Material UN1796	Corrosive	D002	
3									
4									
5	Sodium gluconate - Sodium sulfate		Not listed Not regulated, non hazardous						

Called Pauls: 11/27

Item
1
2 – 1 drum CC + 15 drums
3
5 Flush pt, PCB, radio.
4 Need Radio Assay and PCB analy.

Radiation Monitoring Release Survey Card Number (if applicable)

*Hazards
Corrosive - C Flammable - F
Oxidizer - O Explosive - E
Poison - P

** Status
Full - F New (unused) - N
Partially Full - PF
Empty (<1 in.) - M.T.
Triple rinsed (empty drums) - TR
Reacted - Rx
Old (expired) - O

*** Indicate how many containers of this size are being offered for disposal

0 0 0 0 5 5

DISPOSAL ANALYSIS NO. 12-25

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
				OFFSITE DISPOSAL					
1		Waste Di-2-Ethyl-hexyl phosphoric acid	Corrosive Material	NA1902	Corrosive	D002	4	55-gallon drum	55 gallons
2		Waste tributyl phosphate	None	None	None	WT02	4	55-gallon drum	55 gallons
3		Waste Isopropanol	Flammable Liquid	UN1219	Flammable Liquid	D001	4	55-gallon drum	55 gallons
6		Waste 1-1-1-Tri-chloroethane	ORM-A	UN2831	None	U226	14	55-gallon drum	Empty
				ONSITE DISPOSAL					
4		Non-regulated empty drums	None	None	None	None	2	55-gallon drum	Empty
5		Non-regulated empty drums	None	None	None	None	4	35-gallon drum	Empty

Rockwell
NAME OF CONTRACTOR

12-25

CONTROL NO
RHO 85-217
CROSS CONTROL NO

PROPERTY DISPOSAL REQUEST

PART I – DESCRIPTION OF PROPERTY AND REASON FOR DISPOSAL

✓	QTY	UNIT	INCLUDE IDENTIFICATION NUMBERS, SUCH AS NEW EQUIPMENT PIECE SERIAL NOS BUILDING FROM WHICH REMOVED, PROJECT AFFECTED ETC	UNIT ACQ VALUE	ACCOUNTING USE ONLY TOTAL VALUE	PROPERTY MGT USE ONLY DISPOSE OF AS *
1	1 Lot	Drums	Miscellaneous Chemical Drums (Approx. 32 Drums)			#4

#4

* DISPOSITION SYMBOLS 1 – EXCESS 2 – SALVAGE 3 – SCRAP 4 – BURY 5 – DESTROY 6 – OTHER (EXPLAIN)

REASON FOR DISPOSAL (IF CONTAMINATED, ATTACH RADIATION SURVEY REPORT.)

Empty and full waste drums that require burial.

THE PROPERTY LISTED ABOVE – [X] IS [ ] IS NOT – TOXIC OR HAZARDOUS TO HUMANS, ANIMALS OR THE ENVIRONS.

COMPONENT		DATE	LOCATION OF MATERIAL
Fission Products Processing		3/21/85	271-B/200-E
ORIGINATOR	BUILDING	PHONE	LOCATION OF BURIAL
Paul J. Hamacher	271-B	3-2558	2727-S/200-W
RM CLEARANCE FOR PUBLIC SALE	SURVEY NO.	DATE	

SIGNATURE OF REQUESTING AUTHORITY

PART II – INVESTIGATION

AN INVESTIGATION HAS BEEN MADE AND DISPOSITION INSTRUCTIONS HAVE BEEN NOTED IN PART I ABOVE

BY [signature] DATE

PART III – DISPOSITION RECEIPT

BY [signature] DATE 3/21/85

DISPOSED PER INSTRUCTIONS IN PART I BY DATE

NOTE THE SIGNATURE FOR RM CLEARANCE AND THE SURVEY NUMBER MUST BE OBTAINED THE SAME DAY AS THE ARRIVAL OF THE PROPERTY AT THE STORES SALE YARD

PART IV – APPROVAL

DISPOSITION OF THE ABOVE PROPERTY OR MATERIALS IN ACCORDANCE WITH THE ABOVE RECOMMENDATIONS IS APPROVED

SIGNATURE OF APPROVING OFFICIAL DATE

PART V – INVENTORY CONTROL

IN THE CASE OF INVENTORY MATERIALS DESIGNATE BY ITEM NUMBER ABOVE ACCOUNT TO BE RELIEVED AND OFFSETTING ACCOUNT TO BE CHARGED

ITEM NO.	DEBIT ACCOUNT	CREDIT ACCOUNT

0000060

9112220011435

RL4-3000-217 4-78

INVENTORY OF PROPERTY ACCOUNTING

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB No. 2000-0404 Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 729 000 3967 | Manifest Document No. RHO 12-238

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
P. J. Hamacher
271-B/200 East

4. Generator's Phone (509) 373-2558

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 739 000 3967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Central Landfill
Corrosive Trench

10. US EPA ID Number: WA 739 000 3967

G. State Facility's ID

H. Facility's Phone (509) 376-6743

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste, Non-regulated None None empty drums	6	DM	34	Ft³	None
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Certified by L. F. Lust

Printed/Typed Name | Signature | Date Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date Month Day Year

GENERATOR

TRANSPORTER

FACILITY

Style F15-6 Labe Master Chicago IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

0000061

GENERATOR COPY

9 1 1 2 2 1 1 1 3 5

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967

Manifest Document No. RHO 12-258

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
P. J. Hamacher
271-B/200 East

4. Generator's Phone (509) 373-2553

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Central Landfill
Corrosive Trench

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone (509) 376-5743

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Waste, Non-regulated empty drums None None	6	DM	34	FT³	None
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Certified by L. F. Lust

Printed/Typed Name | Signature | Date Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date Month Day Year

Style F15-6 Lade Master Chicago IL 60646 312/478-0900

EPA Form 8700-22 (3-84)

0000062

FILE COPY OR STATE COPY

9 1 1 2 2 1 1 3 7

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 — Manifest Document No. RHO 12-25B

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
P. J. Hamacher
271-B/200 East

4. Generator's Phone (509) 373-2553

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Central Landfill
Corrosive Trench

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone (509) 376-6743

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.		Waste, Non-regulated empty drums None None	6	DM	34	Ft³	z None
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Certified by L. F. Lust

Printed/Typed Name | Signature | Date Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: E. F. Kivas | Signature: E. F. Kivas | Date Month Day Year: 5 22 82

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: DE PHELPS | Signature: DE Phelps | Date Month Day Year: 5 17 82

GENERATOR — TRANSPORTER — FACILITY

Style F15-6 Labelmaster, Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

000282

TRANSPORTER #1

9 1 1 2 2 1 3 1 4 3 8

DISPOSAL PACKET NUMBER

P85-030

Rockwell Hanford Operations

DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD

STORAGE/DISPOSAL ACTIVITY

Onsite Disposal (D81):
- ☐ Oxidizer Trench
- ☒ Corrosive Trench
- ☐ Asbestos Trench

Non-PCB Onsite Storage (SO1)/Offsite TSD: ☐

PCB Onsite Storage/Offsite Disposal: ☐

ORIGINATOR

End Function: UNC

Manifest Number: UNC 13-31 B

Company: UNC

Building/Area: 1114N/100 N

Contact Person: J. R. Cooper

Address/Phone: 114 N/100 N 373-4939

PHYSICAL DESCRIPTION

Item No.	Description Of Waste	DOT Hazard Class	WDOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT^3)	Generating Facility Bldg., Area
1	Non-regulated drums of ~~oil-soaked soil (12)~~	None	None	2400	88	1114 N/100 N
2						
3						
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form.

Total Weight (Front & Back) 2400 KG

Total Volume (Front & Back) 88 FT^3

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)

ONSITE DISPOSAL: LAND FILL

Disposal Date: 4-15-1985

Signature: Disposer D E Phelps

Trench Location: Corrosive Trench

Beginning Coordinates: N W

Ending Coordinates: N W

NON PCB OFFSITE DISPOSAL

Storage Time:

Arrival Date:

Date Shipped:

Offsite TSD

Facility Name:

Facility Address:

TSD Process:

Landfill (D81): ☐ Disposal Date

Treatment (TO ___): ☐ Treatment Date

Specify Treatment Activity

Other (_____): ☐

Specify Activity

PCB OFFSITE DISPOSALS

Storage Time:

Beginning Date:

Date Shipped:

Offsite Disposal:

Facility Name:

Facility Address:

COMMENTS:

0000134

A-6400-249 (11-84)

9112221140

Please print or type (Form designed for use on elite (12-pitch) typewriter) Form Approved. OMB No. 2000-0404 Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 | Manifest Document No. UNC 13-31B | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
J. R. Cooper
1114 N/ 100 N Area

4. Generator's Phone (509) 373-4939

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford
6. US EPA ID Number: WA 789 000 8967
C. State Transporter's ID
D. Transporter's Phone 376-1420

7. Transporter 2 Company Name: NA
8. US EPA ID Number: NA
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Central Landfill
Corrosive Trench
10. US EPA ID Number: WA 789 000 8967
G. State Facility's ID
H. Facility's Phone (509) 376-6748

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Non-regulated drums of oil-soaked soil None None	12	DM	88	Ft^3	None
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Certified by L. F. Lust

Printed/Typed Name: Joe Cooper | Signature: Joe Cooper | Date: Month 4 Day 13 Year 85

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Timothy W Toberg | Signature: Timothy W Toberg | Date: Month 4 Day 15 Year 85

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: D E Phelps | Signature: D E Phelps | Date: Month 4 Day 15 Year 85

Style F15-6 Labelmaster Chicago IL 60646 (312) 478-0900 EPA Form 8700-22 (3-84)

0000135

ORIGINAL—RETURN TO GENERATOR

OUTGOING LTR. NO.
R85-0244
INCOMING LTR. NO.

REPLY DUE

DIST.	LTR.	ENCL.	APPR.
Ash, E.B.			
Bartholomew, D.C.			
Bellefontaine, M.			
Carey, J.M.			
Crawford, A.C.	X		
Deichman, J.L.			
De Pol, C.V.			
Donahue, J.W.			
Gilmore, R.J.			
Grove, R.S.			
Hammond, R.D.			
Hanneman, R.E.			
Kinzer, J.E.			
Knight, B.E.			
[illegible], M.P.			
[illegible]G.	X		
[illegible]R, R.G.			
McDermott, R.J.			
Ogletree, L.R.			
Pascoe, K.J.			
Patterson, J.W.	X		
Perkins, J.O.			
Rosner, A.L.			
Rosztoczy, J.M.	X		
Salmon, C.M.			
Weed, V.R.			
Zabo, L.L.			
Contract Administrator	X		
Central Files	X	X	
DR GROTH	X		X
JC FULTON	X		
GR COX	X	X	X
GG MEADE	X		
HA HARPER	X	X	
WF HEINE	X		
CD PROSSER	X		
DCH	X		
[illegible]	X	X	X
[illegible]	X	X	X

FEB 05 1985

9112212142

13-31-B

Rockwell Hanford Operations
Energy Systems Group
P.O. Box 800
Richland, WA 99352

Rockwell International

FEB 05 1985

In reply refer to letter R85-0244.

Mr. J. R. Cooper
1114N/100 N Area
UNC Nuclear Industries
Post Office Box 490
Richland, Washington 99352

Dear Mr. Cooper:

DISPOSAL ANALYSIS NO. 13-31

Reference: Chemical Waste Disposal Request, January 7, 1985

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

All packaging, labeling and marking of the waste must be completed in accordance with the prescribed instructions, which are based on Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. A partially completed manifest is attached for your use.

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste package will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifest. Failure of the generator to comply with the instructions in the subject Dispsoal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench or to the 2727-S storage facility for subsequent offsite disposal is a generator responsibility and may be implemented after compliance with instructions in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting A. D. Poor (6-1420). The manifest and the attached Dangerous Waste Treatment, Storage and Disposal Record must accompany the shipment during transportation.

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Rockwell International

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

Very truly yours,

H A Haerer

H. A. Haerer, Project Manager
Hazardous Waste Program

HAH:LFL:ra

Att.

DISPOSAL ANALYSIS NO. 13-31

Offsite Disposal

Items listed for Offsite Disposal must be properly packaged, labeled and manifested for shipment to an offsite disposal facility in accordance with the State of Washington law (Chapter 173-303). The Hanford generator has the responsibility for packaging and for shipping the waste to the offsite staging facility, 2727-S/200 West. Offsite disposal shipments originating from this facility will be arranged by Rockwell.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for offsite disposal:

- In accordance with 49 CFR 173.24, waste must be packaged in strong, tight, DOT-approved containers.
- The DOT Label(s) specified in this Disposal Analysis must be applied to the container.
- The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- The total weight, if over 110 pounds, must be marked on the container.
- In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, and in a color which contrasts with the container.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest and a Dangerous Waste Treatment, Storage and Disposal Record. These documents have been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the manifest in the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifest and disposal record will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

Complete or [illegible] parts and forward to: [illegible]/A105/200E Rockwell

9 1 1 2 3 4 5 1 4 5

Rockwell Hanford Operations

CHEMICAL WASTE OSAL REQUEST

Logbook No. 13-

Manifest(s) cross-reference

Requested by	Telephone Number	Address	Company
J.R. Cooper	373-4939	1114-N/100N	UNC

Signature [signature] Date 1/7/85

Radiation Monitoring Release Survey Card Number (If Applicable)

WASTE DESCRIPTION (For additional items, continue on the back of this form)

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Sample 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Sample 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Sample 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	None	MT	
1.	12	55Gal	2400	Steel Drum	Oil saturated Soil	Oil, Dirt, Sand	100.0	S	None	U	F	
2.	3*	55Gal	600	Steel Drum	Oil	PNA PCB Oil	2% <50PPM 98%	L	F	U	F	
	*Containers 1, 13 and 26. See attached HEHF analysis report.											

INSTRUCTIONS

COLUMN A - ITEM NUMBER — Item number for each unique waste.

COLUMN B - NUMBER OF CONTAINERS — Number of containers of a unique waste to be disposed

COLUMN C - CONTAINER SIZE — Size of containers specified in Column B. If multiple container sizes, specify number and size of each.

COLUMN D - TOTAL WASTE QUANTITY — Total waste quantity (in kilograms only) of each unique waste to be disposed.

COLUMN E - CONTAINER DESCRIPTION — Specify container type e.g. steel drum, glass bottle

COLUMN F - WASTE DESCRIPTION — Specify trade name or general description of each unique waste

COLUMN G - CHEMICAL COMPONENTS — List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

COLUMN H - WEIGHT (%) — For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages

COLUMN I - PHYSICAL STATE — Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.

COLUMN J - HAZARDS — Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.

COLUMN K - WASTE STATUS — Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).

COLUMN L - CONTAINER STATUS — Indicate whether container is: Full (F), Partially Full (PF), Empty (< 1 in) (MT), Triple Rinsed (TR).

A-6400-245 (11-84)

DISPOSAL ANALYSIS NO. 13-31

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
				OFFSITE DISPOSAL					
2	1,13,26	Waste Poisonous Liquid, NOS	Poison B	UN2810	Poison	UP03	3	55-gallon drums	55 gallons
				ONSITE DISPOSAL					
1	2-12, 25	Non-regulated Oil-soaked sand	None	None	None	None	12	55-gallon drums	55 gallons

0000140

HANFORD ENVIRONMENTAL HEALTH FOUNDATION

December 28, 1984

CO 9223

UNC Nuclear Industries
100KE Building
100KE Area

POOR COPY RECEIVED

Attn: R. V. Berg

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY ANALYSIS, POLYNUCLEAR AROMATIC HYDROCARBON ANALYSIS, pH ANALYSIS, PCB ANALYSIS, AND FLASHPOINT TEST - 100 K AREA

Following are the results of the gas chromatograph/mass spectroscopy (GC/MS) analysis, polynuclear aromatic hydrocarbon analysis (PNA) and pH analysis of selected samples; the flashpoint test of [illegible] liquid wastes; and the PCB analysis of 28 waste soil, sludge and liquid samples received October 29, 1984.

PNA's were analyzed by high pressure liquid chromatography following method WAC 173-303 Chemical Tests App. G. The flashpoint test followed ASTM Method D93-80 using a Pensky-Marten closed cup tester. PCB's were analyzed by gas chromatography using a capillary column and electron capture detector. The reported PCB part per million (ppm) values are on a weight/weight basis.

Sample Number	Sample Type	GC/MS Results	ppm PCB's	pH (aqueous phase)	Flash-point °C
[illegible]	sludge	Main constituents: C_9-C_{16} aliphatics, trimethylbenzene isomers, mono-, di-, trimethyl naphthalene isomers	3		48
2	soil		<1		
[illegible]	soil		<1		
[illegible]	soil		<1		
[illegible]	soil		<1		
[illegible]	soil		<1		
[illegible]	soil		<1		
[illegible]	soil		<1		
[illegible]	soil		<1		
[illegible]	soil		<1		
[illegible]	soil		<1		
[illegible]	soil		<1		
[illegible]	liquid		6		39
[illegible]	liquid		<1		>100
[illegible]	liquid	Main constituents: water, butoxy-2-ethanol	<1	12.3	[illegible]

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Sample Number	Sample Type	GC/MS Results	ppm PCB's	pH (aqueous phase)	Flash-point °C
16	liquid		<1		>100
17	liquid		<1		>100
18	liquid		<1	-7	>100
19	liquid		<1	-7	>100
20	liquid		<1		>100
21	liquid		5		65
22	liquid		2	-7	75
23	liquid		<1	-7	>100
24	liquid		<1	-7	>100
	soil		<1		
	liquid	Main constituent: C_9-C_{16} aliphatics, trimethyl benzene isomers, mono-, di-, trimethyl naphthalene isomers	<1	-7	59
27	liquid		<1	-7	>100
28	liquid		<1	-7	>100

Samples 13 and 14 were analyzed for PNA. Analysis showed Sample 13 to contain 2% PNA and Sample 14 to contain less than 50 ppm. As stated in WAC 173-303, waste containing PNA at a level greater than 1% is designated as extremely hazardous waste. It should be noted that Samples [illegible] and 26 are of the same composition as Sample 13 and should be considered designated as extremely hazardous waste. Samples 16-24, 27 and 28 are similar to Sample 14 and should not contain hazardous amounts of PNA's.

If you have any questions regarding this report, please contact Environmental Health Sciences.

R. L. Boorse
Environmental Health Sciences

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cc: C. Cochrane, UNC

Onsite Disposal (D81): ☐ Oxidizer Trench ☐ Corrosive Trench ☐ Asbestos Trench	End Function: UNC
	Manifest Number: UNC 13-31
	Company: UNC
	Building/Area: 1114 N/100 N
Non-PCB Onsite Storage (SO1)/Offsite TSD: ☒	Contact Person: J. R. Cooper
PCB Onsite Storage/Offsite Disposal: ☐	Address/Phone: 1114 N/100 N Area 373-4939

PHYSICAL DESCRIPTION

Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)		Weight (KG)	Volume Of Waste and Container (FT^3)	Generating Facility Bldg./Area
1	Waste Poisonous Liquid, NOS (3 drums)	Poison B	WP03		600	22	1114 N/100 N
2							
3							
4							
5							
6							
7							
8							
9							
10							

For additional items, continue on the back of this form.

Total Weight (Front & Back) 600 KG

Total Volume (Front & Back) 22 FT^3

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)

ONSITE DISPOSAL:

Disposal Date:

Signature: Disposer

Trench Location:

Beginning Coordinates: N W

Ending Coordinates: N W

NON PCB OFFSITE DISPOSAL

Storage Time:

Arrival Date:

Date Shipped:

Offsite TSD

Facility Name:

Facility Address:

TSD Process:

Landfill (D81): ☐ Disposal Date

Treatment (TO ____): ☐ Treatment Date

Specify Treatment Activity

Other (_____): ☐

Specify Activity

PCB OFFSITE DISPOSALS

Storage Time:

Beginning Date:

Date Shipped:

Offsite Disposal:

Facility Name:

Facility Address:

COMMENTS:

A-6400-249 (11-84)

0000143

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-3

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967

Manifest Document No. UNC 13-31A

2. Page 1 of 1

Information in the shaded area is not required by Federal law.

3. Generator's Name and Mailing Address
J. R. Cooper
1114 N/100 N

4. Generator's Phone (509) 373-4939

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone: 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
2727-S/200 West

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone: (509) 378-3679

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a.	Waste Poisonous Liquid, NOS Poison B UN2810	3	DM	1320	P	WP03
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
3 drums of oil-containing 2% PAH (poly aromatic hydrocarbons)

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Certified by

Printed/Typed Name | Signature: L. F. Lust | Date Month Day Ye

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date Month Day Ye

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date Month Day Ye

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date Month Day Ye

Style F15-6 Labelmaster, Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22 (3-

0000144

ORIGINAL—RETURN TO GENERATOR

▶ Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 — Manifest Document No.

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: UNC 13-31B
J. R. Cooper
1114 W/ 100 W Area

4. Generator's Phone (509) 373-4939

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone: 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: Central Landfill Corrosive Trench

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone: (509) 376-6743

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Non-regulated drums of oil-soaked soil	None None	12	DM	88	ft^3	None
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Certified by

Printed/Typed Name — Signature: L. F. Lust — Date: Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Date: Month Day Year

Style F15-6 Labelmaster Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

0000145

FILE COPY OR STATE COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 | Manifest Document No.

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address UNC 13-31B
J. R. Cooper
1114 N/ 100 N Area

4. Generator's Phone (509) 373-4939

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Central Landfill
Corrosive Trench

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone (509) 376-6748

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Non-regulated drums of oil-soaked soil None None		12	DM	88	Ft^3	None
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Certified by L. F. Lust

Printed/Typed Name: JOE COOPER | Signature: Joe Cooper | Date: Month 4 Day 13 Year 85

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Timothy W Towers | Signature: [illegible] | Date: Month 4 Day 15 Year 85

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: D E Lust | Signature: [illegible] | Date: Month 4 Day 15 Year 85

Style F15-6 Labelmaster Chicago IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

0000146

TRANSPORTER #2

9 1 1 2 2 1 1 1 1 5 2

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Form Approved. OMB No: 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 — Manifest Document No.

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address UNC 13-31B
J. R. Cooper
1114 N/ 100 N Area

4. Generator's Phone (509) 373-4939

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Central Landfill
Corrosive Trench

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone (509) 376-6748

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Non-regulated drums of oil-soaked soil		None None	12	DM	88	Ft^3	None
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Certified by L. F. Lust

Printed/Typed Name: Joe Cooper — Signature: Joe Cooper — Date: Month 4 Day 13 Year 85

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Timothy W Toberg — Signature: Timothy W Toberg — Date: Month 4 Day 15 Year 85

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: D F Phelps — Signature: D. F. Phelps — Date: Month 4 Day 15 Year 85

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EPA Form 8700-22 (3-84)

000288

TRANSPORTER #1

9112212153

DISPOSAL PACKET NUMBER

P85-033

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB No. 2000-0404 Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 — Manifest Document No. WHC 12-41B

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
RD Heusyed
337/300 Area w/B-79

4. Generator's Phone (509) 376-3743

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone: 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Central Landfill
Chemical Trench

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone: (509) 376-6748

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Non Regulated Empty Oil Drums None None	25	DM	182	Ft^3	None
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
No hazardous material

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name: RD Heusyed — Signature: RD Heusyed approved by L J Lust — Date: Month 12 Day 18 Year 84

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Timothy W Tobey — Signature: [illegible] — Date: Month 4 Day 30 Year 85

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: D E Phelps — Signature: D E Phelps — Date: Month 4 Day 30 Year 85

Style F15-6 Labelmaster Chicago IL 60646 (312) 478-0900

0000074

EPA Form 8700-22 (3-84)

9112245

Please Print or Type (Form designed for use on elite (12-pitch) typewriter.) Form Approved OMB No 2050-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 | Manifest Document No. WHC 12-41B | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
RD Heusyel
337/300 Area w/8-79

4. Generator's Phone (509) 376-3743

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford | 6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name: NA | 8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Central Landfill
Chemical Trench

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone (509) 376-6748

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.		Non Regulated Empty Oil Drums None None	25	DM	182	ft^3	None
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
No hazardous material

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

approved by

Printed/Typed Name	Signature	Date Month Day Year
	L T Lust	

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date Month Day Year

Style F15-6 Lade Master Chicago IL 60646 (312) 478-0900 EPA Form 8700-22 (3-84)

0000075

TRANSPORTER #2

9 1 1 2 2 1 1 1 5 6

OUTGOING LTR NO. 84-4462

INCOMING LTR NO.

ACTION

REPLY DUE

DIST	LTR	ENCL	APPR
Ash, E.B.			
Bartholomew, D.C.			
Bellefonte, M			
Carey, J.M			
Crawford, A.C.	✓		
Deichman, J.L.			
Di Pol, C.V.			
Donahoe, J.W.			
Gilmore, R.J.			
Gross, R.S.			
Hammons, R.D			
Hammons, R.E.			
Kiefer, J.E.			
Kimpel, B.E.	✓		
Lemos, M.P.			
Lyndon, P.G.	✓		
L, R.G.			
Mauermann, R.J.			
Ostrom, L.R.			
Pincus, K.J.			
Patterson, J.W	✓		
Person, J.D			
Reeder, A.L.			
Roecker, J.H	✓		
Sahlin, C.M.			
West, V.R			
Zabo, L.L.			
Contract Administrator	✓		
Central Files	✓✓		
DB Groth	✓✓✓		
LM Rodgers	✓✓		
LF Lost (2)	✓✓		
GR Fox GRC	✓✓✓		
QR Dresser	✓		
DD Kaprich	✓		
WF Heine	✓		
MA Hoerter	✓✓✓		
GG Arado	—		

DEC 14 1984

12-41 Bonly

Rockwell Hanford Operations
Energy Systems Group
P.O. Box 800
Richland, WA 99352

Rockwell International

In reply, refer to letter R84-4462

DEC 14 1984

Mr. R. D. Hensyel
W/B-79
Westinghouse Hanford Company
Post Office Box 1970
Richland, Washington 99352

Dear Mr. Hensyel:

DISPOSAL ANALYSIS NO. 12-41

Reference: Chemical Waste Disposal Request, November 13, 1984

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

All packaging, labeling and marking of the waste must be completed in accordance with the prescribed instructions, which are based on Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. A partially completed manifest is attached for your use.

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifest. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench or to the 2727-S storage facility is a generator responsibility and may be implemented following compliance with the disposal instructions in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting A. D. Poor (6-1420). Arrangements for receipt of non-regulated oil by Rockwell Road, Track and Maintenance can be made with M. Malarchick (6-6654).

9112241814 57

0000076

Rockwell
International

Mr. R. D. Hensyel
Page 2
DEC 14 1984

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

H. A. Haerer, Project Manager
Hazardous Waste Program

HAH:LFL:ra

Att.

9112243145 8

0000077

DISPOSAL ANALYSIS NO. 12-41

Offsite Disposal

Items listed for Offsite Disposal must be properly packaged, labeled and manifested for shipment to an offsite disposal facility in accordance with the State of Washington law (Chapter 173-303). The Hanford generator has the responsibility for packaging and for shipping the waste to the offsite staging facility, 2727-S/200 West. Offsite disposal shipments originating from this facility will be arranged by Rockwell.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for offsite disposal:

- In accordance with 49 CFR 173.24, waste must be packaged in strong, tight containers.
- The DOT label specified in this Disposal Analysis must be applied to each container.
- The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable and in letters of a color which contrasts with the container.
- The weight must be marked on the outside of each drum.
- Bungs must be securely in place for transport.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifest has been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifest will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

DISPOSAL ANALYSIS NO. 12-41

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAIN
				OFFSITE DISPOSAL					
	102	Waste Oil, Contaminated with Dichlorodifluoromethane	Combustible Liquid (Poisonous)	UN1028 (non toxic refrigerant)	None	U075	1	55-gallon steel drum	55 gallon
	109	Flammable Liquid NOS	Flammable Liquid	UN1993	Flammable Liquid	D001	1	55-gallon steel drum	55 gallon
				REUSE ONSITE FOR DUST CONTROL					
101, 103-108, 110, 111, 113-123, 125-129		Waste Oil, NOS	Combustible Liquid	NA1270	Combustible Liquid	D001	25	55-gallon steel drum	55 gallons
				ONSITE DISPOSAL - CHEMICAL TRENCH					
		Non-Regulated Empty Oil Drums	None	None	None	None	25	55-gallon steel drums	Empty

9 1 1 2 2 4 3 1 4 6 1

Complete unit ... parts and forward to SWP&DO 2750E / 200E Rockwell

Rockwell Hanford Operations
CHEMICAL WASTE DISPOSAL REQUEST

Logbook No. 12-41

Manifest(s) cross reference

Requested by R D Henagel | Telephone Number 6-3741.3 | Address 10/B 19 | Company Westinghouse

Signature RD Henagel Date 11-13-84

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No.	No. of Containers ***	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	25 eff 26	55 gal	1375 eff 1430 gal	metal drums	Used oil, combustible	L	F	PF	
if oil is pumped I would like to get rid of empty drums									
eff	1	55 gal	55 gal	steel drum	Waste oil, contaminated w/ dichlorodifluoromethane				
eff	1	55 gal	55 gal	steel drum	Waste oil, flammable				

Radiation Monitoring Release Survey Card Number (if applicable) Survey date of release

* Hazards
Corrosive - C Flammable - F
Oxidizer - O Explosive - E
Poison - P

** Status
Full - F New (unused) - N
Partially Full - PF
Empty (<1 in.) - M.T.
Triple rinsed (empty drums) - TR
Reacted - RA

*** Indicate how many containers of this size are being offered for disposal

0000050

HANFORD ENVIRONMENTAL
HEALTH FOUNDATION

CO 9142

November 13, 1984

Hanford Engineering Development Laboratory
337 Building, 300 Area

Attn: R. D. Hensyel

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY ANALYSIS, PCB ANALYSIS, AND FLASHPOINT TEST

Following are the results of the gas chromatography/mass spectroscopy (GC/MS) analysis of selected samples, the PCB analysis, and flashpoint test of 27 liquid waste samples received October 8 and 9, 1984. PCB's were analyzed by gas chromatography using a capillary column and electron capture detector. The flashpoint test followed ASTM Method D93-80 using a Pensky-Marten closed cup tester. The reported PCB part per million (ppm) values are on a weight/weight basis.

Sample	GC/MS Results	ppm PCB's	Flashpoint °C
Waste Paint Thinner	Main constituents: xylene, toluene, ethoxyethyl acetate, 1,2,3-trimethylbenzene, ethylbenzene, N-butylacetate, ethyl acetate, acetone, naphthalene, decane	Not Anal.	Not Analyzed
101		<1	>100
102	Main constituents: dichlorodifloromethane and aliphatic hydrocarbons	<1	*
103		<1	>100
104		<1	>100
105		<1	83 181°F
106		<1	>100
107		<1	>100
108		<1	>100
109	Main constituents: isopropanol, C_9-C_{14} alphatics, substituted cyclohexanes	<1	< 20 flame
110		<1	~~92~~
111		<1	89
113		<1	>100
114		<1	>100
115		<1	>100
116		<1	>100

0000051

P O BOX 100 RICHLAND WASHINGTON 99352

Sample	GC/MS Results	ppm PCB's	Flashpoint °C
117		< 1	> 100
118		< 1	> 100
119		< 1	> 100
120		< 1	> 100
121		< 1	> 100
122		< 1	> 100
123		< 1	> 100
125		< 1	> 100
126		< 1	> 100
127	Main constituents: C_8-C_{15} aliphatic hydrocarbons, 2 & 3 ring naphthalenics xylene	< 1	60 140°F
128		< 1	> 100
130	Main constituents: C_{11}-C_{17} aliphatic hydrocarbons, isopropanol, dimethyl naphthalene isomers	< 1	55 131°F

*Flames smothered flame at 20°C.

If you should have any questions, please contact us.

H. L. Boorse

H. L. Boorse
Environmental Health Sciences

jt

From: Chemistry & Analysis
Phone: 376-3705
Date: October 5, 1984
Subject: FFTF Oil Samples of 10/01/84.

Westinghouse Hanford Company

To: RD Hensyel
W/B-79

Results of total alpha and total beta measurements upon the twenty nine FFTF oil samples submitted to the laboratory on October 1st are tabulated below. Sample #112 was aqueous with only a trace of oil and was not analyzed. Sample #124 was 75% aqueous by volume; there was insufficient oil remaining for re-measurement of the positive beta result obtained.

Sample	Total alpha α/min/ml	Total beta β/min/ml
101	< 0.2	< 0.4
102	< 0.4	< 0.6
103	< 0.2	< 0.3
104	< 0.4	< 0.6
105	< 0.2	< 0.3
106	< 0.4	< 0.6
107	< 0.2	< 0.4
108	< 0.2	< 0.4
109	< 0.2	< 0.4
110	< 0.4	< 0.6
111	< 0.2	< 0.4
113	< 0.4	< 0.6
114	< 0.2	< 0.3
115	< 0.2	< 0.3
116	< 0.2	< 0.4
117	< 0.2	< 0.3
118	< 0.2	< 0.3
119	< 0.4	< 0.6
120	< 0.2	< 0.4
121	< 0.2	< 0.3
122	< 0.2	< 0.3
123	< 0.4	< 0.6
125	< 0.2	< 0.3
126	< 0.2	< 0.3
127	< 0.2	< 0.4
128	< 0.2	< 0.3
129	< 0.3	< 0.5

The reference date of the measurements is 10-05-84.

0000053

Gamma spectral analysis of the aqueous phase and the small amount of oil phase remaining in sample #124 indicates the probable presence of a small 1274.9Kev gamma component, most likely due to sodium-22.

M R Weiler
Chemistry & Analysis

MRW:mw

cc: file
RG Ibatuan

9 1 1 2 2 0 3 1 4 5 6

Complete unshaded parts and forward to SWP&DO 2750E/200E Rockwell

Rockwell Hanford Operations
CHEMICAL WASTE DISPOSAL REQUEST

Logbook No. 1a-41

Manifest(s) cross reference

Requested by: R D Hensgel

Telephone Number: 6-3741.3

Address: W/B 19

Company: Westinghouse

Signature: RD Hensgel

Date: 11-13-84

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No	*** No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	26	55 gal	1430 gal	metal drums	Used oil	L	F	PF	
if oil is pumped I would like to get rid of empty drums									

Radiation Monitoring Release Survey Card Number (if applicable) Survey date of release

* Hazards
Corrosive - C Flammable - F
Oxidizer - O Explosive - E
Poison - P

** Status
Full - F New (unused) - N
Partially Full - PF
Empty (<1 in.) - M.T.
Triple rinsed (empty drums) - TR
Reacted - RA

*** Indicate how many containers of this size are being offered for disposal

DISPOSAL ANALYSIS NO. 1-11

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
				OFFSITE DISPOSAL					
	102	Waste Oil, Contaminated with Dichlorodifluoromethane	Combustible Liquid	UN1028	None	D075	1	55-gallon steel drum	55 gallons
	109	Flammable Liquid NOS	Flammable Liquid	UN1993	Flammable Liquid	D001	1	55-gallon steel drum	55 gallons
				REUSE ONSITE FOR DUST CONTROL					
	101, 103-108, 110, 111, 113-123, 125-129	Waste Oil, NOS	Combustible Liquid	NA1270	Combustible Liquid	D001	25	55-gallon steel drum	55 gallons
				ONSITE DISPOSAL CHEMICAL TRENCH					
		Non-Regulated Empty Oil Drums	None	None	None	None	25	55-gallon steel drums	Empty

Frank McFarland will take the 25 drums of oil to the 100 Area Fire Station

These empties will result from the 25 oil drums taken.

9 1 1 2 2 4 3 1 4 6 8

Complete in ... ed parts and forward to SWP&DU 2750E/200E Rockwell

Rockwell Han... Operations

CHEMICAL WASTE DISPOSAL REQUEST

Logbook No. 12-41

Manifest(s) cross reference

Requested by: R. D. Henasel

Telephone Number: 6-3143

Address: W/B 19

Company: Westinghouse

Signature: R D Henasel

Date: 11-13-84

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No	No. of Containers ***	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	25 eff ~~26~~	55 gal	1375 eff ~~1430~~ gal	metal drums	Used oil, combustible	L	F	PF	
if oil is pumped I would like to get rid of empty drums									
eff	1	55 gal	55 gal	steel drum	Waste oil, contaminated w/ dichlorodifluoromethane				
eff	1	55 gal	55 gal	steel drum	Waste oil, flammable				

Radiation Monitoring Release Survey Card Number (if applicable) Survey data on reverse

* Hazards
Corrosive - C Flammable - F
Oxidizer - O Explosive - E
Poison - P

** Status
Full - F New (unused) - N
Partially Full - PF
Empty (<1 in.) - M.T.
Triple rinsed (empty drums) - TR
Reacted - RA
Other (specify) - O

*** Indicate how many containers of this size are being offered for disposal

HANFORD ENVIRONMENTAL
HEALTH FOUNDATION

CO 9142

November 13, 1984

Hanford Engineering Development Laboratory
337 Building, 300 Area

Attn: R. D. Hensyel

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY ANALYSIS, PCB ANALYSIS, AND FLASHPOINT TEST

Following are the results of the gas chromatography/mass spectroscopy (GC/MS) analysis of selected samples, the PCB analysis, and flashpoint test of 27 liquid waste samples received October 8 and 9, 1984. PCB's were analyzed by gas chromatography using a capillary column and electron capture detector. The flashpoint test followed ASTM Method D93-80 using a Pensky-Marten closed cup tester. The reported PCB part per million (ppm) values are on a weight/weight basis.

Sample	GC/MS Results	ppm PCB's	Flashpoint °C
Waste Paint Thinner	Main constituents: xylene, toluene, ethoxyethyl acetate, 1,2,3-trimethylbenzene, ethylbenzene, N-butylacetate, ethyl acetate, acetone, napnthalene, decane	Not Anal.	Not Analyzed
101		<1	>100
102	Main constituents: dichlorodifloromethane and aliphatic hydrocarbons	<1	*
103		<1	>100
104		<1	>100
105		<1	~~83~~ 181°F
106		<1	>100
107		<1	>100
108		<1	>100
109	Main constituents: isopropanol, C_9-C_{14} alphatics, substituted cyclohexanes	<1	< 20 53°F
110		<1	92
111		<1	89
113		<1	>100
114		<1	>100
115		<1	>100
116		<1	>100

P. O. BOX 100 RICHLAND WASHINGTON 99352

Sample	GC/MS Results	ppm PCB's	Flashpoint °C
117		< 1	> 100
118		< 1	> 100
119		< 1	> 100
120		< 1	> 100
121		< 1	> 100
122		< 1	> 100
123		< 1	> 100
125		< 1	> 100
126		< 1	> 100
127	Main constituents: C_8-C_{15} aliphatic hydrocarbons, 2 & 3 ring napnthalenics xylene	< 1	60 140°F
128		< 1	> 100
130	Main constituents: C_{11}-C_{17} aliphatic hydrocarbons, isopropanol, dimethyl naphthalene isomers	< 1	55 131°F

*Flames smothered flame at 20°C.

If you should have any questions, please contact us.

H. L. Boorse
Environmental Health Sciences

jt

0000055

From: Chemistry & Analysis
Phone: 376-3705
Date: October 5, 1984
Subject: FFTF Oil Samples of 10/01/84.

Westinghouse Hanford Company

To: RC Hensyel
W/B-79

Results of total alpha and total beta measurements upon the twenty nine FFTF oil samples submitted to the laboratory on October 1st are tabulated below. Sample #112 was aqueous with only a trace of oil and was not analyzed. Sample #124 was 75% aqueous by volume; there was insufficient oil remaining for re-measurement of the positive beta result obtained.

Sample	Total alpha α/min/ml	Total beta β/min/ml
101	< 0.2	< 0.4
102	< 0.4	< 0.6
103	< 0.2	< 0.3
104	< 0.4	< 0.6
105	< 0.2	< 0.3
106	< 0.4	< 0.6
107	< 0.2	< 0.4
108	< 0.2	< 0.4
109	< 0.2	< 0.4
110	< 0.4	< 0.6
111	< 0.2	< 0.4
113	< 0.4	< 0.6
114	< 0.2	< 0.3
115	< 0.2	< 0.3
116	< 0.2	< 0.4
117	< 0.2	< 0.3
118	< 0.2	< 0.3
119	< 0.4	< 0.6
120	< 0.2	< 0.4
121	< 0.2	< 0.3
122	< 0.2	< 0.3
123	< 0.4	< 0.6
125	< 0.2	< 0.3
126	< 0.2	< 0.3
127	< 0.2	< 0.4
128	< 0.2	< 0.3
129	< 0.3	< 0.5

The reference date of the measurements is 10-05-84.

0000059

Gamma spectral analysis of the aqueous phase and the small amount of oil phase remaining in sample #124 indicates the probable presence of a small 1274.9Kev gamma component, most likely due to sodium-22.

M R Weiler
Chemistry & Analysis

MRW:mw

cc: file
RG Ibatuan

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB No. 2050-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 — Manifest Document No.

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
R D Henryel
337/300 Area W/B-79
ERC 12-41A

4. Generator's Phone (509) 376 3743

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: 2727-S/200 West

10. US EPA ID Number: WA 789 890 8967

G. State Facility's ID

H. Facility's Phone (509) 373-3679

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Oil, Contaminated w/ Diclorodifluoromethane — Combustible Liquid — UN1028		1	DM	490	P	U075
b. Flammable Liquid, NOS — Flammable Liquid — Un1993		1	DM	490	P	D001
c.						
d.						

J. Additional Descriptions for Materials Listed Above

Total Waste: 110 gallons (liquid)

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name: R D Henryel — Signature: Approved by R D Henryel — Date: Month 12 Day 21 Year 84

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. H. Alan Strong — Signature — Date: Month Day Year 84

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Gary R. Cox — Signature: Gary R. Cox — Date: Month 12 Day 21 Year 84

Style F15-6 Labe Master Chicago IL 60646 312 478-0900

EPA Form 8700-22 (3-84)

FILE COPY OR STATE COPY

C000091

9112221473

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404 Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [illegible] | Manifest Document No. WHC 12-41B

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
[illegible]
[illegible] 98-77

4. Generator's Phone ([illegible]) 376-3743

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name [illegible]

6. US EPA ID Number [illegible]

C. State Transporter's ID

D. Transporter's Phone [illegible]

7. Transporter 2 Company Name NA

8. US EPA ID Number NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
[illegible]

10. US EPA ID Number [illegible]

G. State Facility's ID

H. Facility's Phone ([illegible]) 376-[illegible]

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. N[illegible]	[illegible]	DM	1	FL	N[illegible]
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
N[illegible]

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
[illegible]	[illegible]			

GENERATOR

TRANSPORTER

FACILITY

Style F15-6 Lace Master Chicago 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

00000192

POOR COPY RECEIVED

FILE COPY OR STATE COPY

9 1 1 2 2 4 3 1 4 7 4

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WA 789 000 8967 | Manifest Document No. WHC 12-41B

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
R D Heusyel
337/300 Area w/8-79

4. Generator's Phone (509) 376-3743

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone: 376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number: NA

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Central Landfill
Chemical Trench

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone: (509) 376-6748

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Non Regulated Empty Oil Drums None None	25	DM	182	ft^3	None
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
No hazardous material

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name: RD Heusyel | Signature: RD Heusyel approved by L J Lust | Date: Month 12 Day 18 Year 84

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Timothy W Tokes | Signature: [illegible] | Date: Month 4 Day 30 Year 85

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: D E Phelps | Signature: D E Phelps | Date: Month 4 Day 30 Year 85

Style F15-6 Labermaster, Chicago IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

000286

TRANSPORTER #1

9112221475

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: WA 789 000 8967
Manifest Document No.: WHC 12-41 B
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
RD Henryel
337/300 Area w/0-77
4. Generator's Phone (509) 376-3743

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: Rockwell Hanford
6. US EPA ID Number: WA 789 000 8967
C. State Transporter's ID
D. Transporter's Phone: 376-1420

7. Transporter 2 Company Name: NA
8. US EPA ID Number: NA
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Central Landfill
Chemical Treatment
10. US EPA ID Number: WA 789 000 8967
G. State Facility's ID
H. Facility's Phone: (509) 376-6745

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Non Regulated Empty Oil Drums None None	25	DM	132	ft3	None
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
No hazardous material

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name: RD Henryel
Signature: Approved by [signature]
Date: Month 12 Day 18 Year 84

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Timothy W Tokey
Signature: [signature]
Date: Month 4 Day 30 Year 85

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: D F Fields
Signature: [signature]
Date: Month 4 Day 30 Year 85

Style F15-6 Labelmaster, Chicago, IL 60646 (312) 478-0900

EPA Form 8700-22 (3-84)

000287

TSDF COPY

9 1 1 2 2 1 1 4 7 6

DISPOSAL PACKET NUMBER

P85-084

9 1 1 2 2 4 3 1 4 7 7

*Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404 Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

21. Generator's US EPA ID No: WA 789 000 8967

Manifest Document No: RHO-19-31-TRASH

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

Generator's Name and Mailing Address
L. GUERRA
2713-W/200W

4. Generator's Phone (509) 373-2351

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: ROCKWELL HANFORD OPERATIONS

6. US EPA ID Number: WA 789 000 8967

C. State Transporter's ID

D. Transporter's Phone: 509/376-1420

7. Transporter 2 Company Name: NA

8. US EPA ID Number:

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: CENTRAL LANDFILL TRASH TRENCH

10. US EPA ID Number: WA 789 000 8967

G. State Facility's ID

H. Facility's Phone: 509/376-6748

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	TRIPLE RINSED "BANVEL"CONTAINERS	NONE	NONE	6	DF	0	-	NA
b.	TRIPLE RINSED "FENAMINE"CONTAINERS	NONE	NONE	28	DF	0	-	NA
c.	TRIPLE RINSED "2,4-D" CONTAINERS	NONE	NONE	8	DM.	0	-	NA
d.	TRIPLE RINSED "ROUNDUP" CONTAINERS	NONE	NONE	4	DF	0	-	NA

Additional Descriptions for Materials Listed Above

ITEM A - TRIPLE RINSED 2.5 GAL PLASTIC BOTTLES
ITEM B - TRIPLE RINSED 2.5 GAL PLASTIC BOTTLES
ITEM C - TRIPLE RINSED 5 GAL METAL CANS
ITEM D - TRIPLE RINSED 1 GAL PLASTIC BOTTLES

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

ITEMS A,B,C, AND D ARE NOT REGULATED WASTE.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.

OK per IAR 12-12-85

Printed/Typed Name: LUPE GUERRA

Signature: Lupe Guerra

Month Day Year: 12 13 85

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Scott Webb

Signature: Scott Webb

Month Day Year: 12 13 85

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:

Signature:

Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: D.E. Phelps

Signature: D E Phelps

Month Day Year: 12 13 85

Style F15R-6 Labelmaster, Div. of American Labelmark Co. Inc. 50646

EPA Form 8700-22 (Rev. 4-85) Previous edition is obsolete.

000261

9112221478

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No 2000-0404 Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

21. Generator's US EPA ID No: WA 789 000 8967
Manifest Document No: RHO-19-31-TRASH
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
L. GUERRA
2713-W/200W
4. Generator's Phone (509) 373-2357

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: ROCKWELL HANFORD OPERATIONS
6. US EPA ID Number: WA 789 000 8967
C. State Transporter's ID
D. Transporter's Phone: 509/376-1420

7. Transporter 2 Company Name: NA
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address: CENTRAL LANDFILL TRASH TRENCH
10. US EPA ID Number: WA 789 000 8967
G. State Facility's ID
H. Facility's Phone: 509/376-6748

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. TRIPLE RINSED "BANVEL" CONTAINERS NONE NONE		6	DF	0	-	NA
b. TRIPLE RINSED "FENAMINE" CONTAINERS NONE NONE		28	DF	0	-	NA
c. TRIPLE RINSED "2,4-D" CONTAINERS NONE NONE		8	DM	0	-	NA
d. TRIPLE RINSED "ROUNDUP" CONTAINERS NONE NONE		4	DF	0	-	NA

J. Additional Descriptions for Materials Listed Above
ITEM A: TRIPLE RINSED 2.5 GAL PLASTIC BOTTLES
ITEM B: TRIPLE RINSED 2.5 GAL PLASTIC BOTTLES
ITEM C: TRIPLE RINSED 5 GAL METAL CANS
ITEM D: TRIPLE RINSED 1 GAL PLASTIC BOTTLES

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
ITEMS A,B,C, AND D ARE NOT REGULATED WASTE.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.

Printed/Typed Name: LUPE GUERRA
Signature: Lupe Guerra
Month 12 Day 13 Year 85

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Scott Weht Scott 1/1/86
Signature: Scott Weht
Month 1 Day 1 Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: D.E. PHELPS
Signature: D E Phelps
Month 12 Day 13 Year 85

Style F15R-6 Labelmaster, Div. of American Labelmark Co. Inc. 60646
EPA Form 8700-22 (Rev. 4-85) Previous edition is obsolete.

000262

TRANSPORTER 2

Internal Letter

Rockwell International

Date November 5, 1985

No. 65950-85-541

TO: (Name, Organization, Internal Address)
- L. Guerra
- Ground Maintenance
- 2713-W/200-W

FROM: (Name, Organization, Internal Address, Phone)
- D. R. Groth
- 2750-E/A121/200-E
- 3-4258

Subject: Chemical Waste Disposal Analysis No. RHO-19-31

Ref: Chemical Waste Disposal Request, October 14, 1985, L. Guerra to Solid Waste Processing and Disposal Unit

The Solid Waste Processing and Disposal (SWP&D) Unit has completed a waste disposal analysis for wastes identified in the reference. Instructions for waste packaging and disposal are:

General

All hazardous wastes must be packaged and transported according to Washington State Regulations WAC 173-303 and U. S. Department of Transportation (DOT) Regulations 49 CFR. Improperly packaged wastes will not be accepted by site disposal facility personnel and will be returned to you for corrections. This circumstance should, however, be prevented by the pre-shipment inspection made by our Unit personnel.

Preparation for Shipment

Wastes must be packaged, labeled and marked by the generator according to the instructions given in the attached disposal analysis. The instructions must comply with State of Washington and DOT regulations. Please note that markings must be legible, durable, and in a color which contrasts with the container. Labels are available as store stock items.

Inspection and Manifests

When the waste has been properly packaged, SWP&D Unit personnel will conduct a pre-shipment inspection to verify compliance with the packaging instructions. Properly completed Uniform Hazardous Waste Manifest(s) will be delivered and initialled by the SWP&D Unit representative upon satisfactory inspection. More than one manifest may be required, depending on shipping destinations and waste compatability.

Shipping, Radiological Release and Manifest

Arranging transportation is a generator responsibility. Transportation arrangements can be made by contacting Mr. A. D. Poor on 376-1420. Please note that shipments of non-radioactive hazardous waste will not be accepted without documentation of an unconditional radiological release or documentation of exemption from unconditional survey.

Rockwell International

When the transporter arrives to pick up the waste, the generator must sign the manifest, obtain the transporter's signature and retain the tissue "generator copy." The original and remaining copies must accompany the shipment. When the shipment is complete, SWP&D Unit personnel will return the original copy of the manifest to the generator. Generators must keep the original, signed copy of the manifest in an auditable file.

Audit of Activities

All waste designations, packaging, shipping, and administrative activities (and documentation) are subject to audit by authorized Washington Department of Ecology (WDOE), U. S. Department of Energy (DOE), and contractor personnel. The activities related to disposal of the referenced waste(s) must adhere to requirements in every detail. Generators who fail to adhere to requirements will have their disposal privileges revoked by WDOE and may suffer penalties as defined in governing regulations.

Please contact Mrs. J. A. Reddick on 3-4733 for any further assistance in implementing chemical waste disposal.

D. R. Groth, Manager
Solid Waste Processing and Disposal Unit

DRG:JAR:kh

Att.

cc: J. E. Chulos
S. H. Norton
D. E. Phelps
A. D. Poor
J. A. Reddick
M. R. Romsos

cc: (w/o Att) W. F. Heine
D. W. Lindsey
G. G. Meade
L. L. Powers

DISPOSAL ANALYSIS NO. RHO-19-31

Central Landfill Trash Trench

Items listed for Trash Trench Disposal must be properly packaged, labeled, and manifested for disposal at the Hanford Central Landfill.

The waste generator must comply with the following requirements for packaging, labeling, and marking wastes for onsite disposal:

- The containers must all be triple rinsed. Each rinsing must use a volume of water at least equal to 10 percent of the capacity of the container or inner liner.
- The rinsates must be used in the same manner as the original contents to kill weeds.
- All hazardous material labels must be removed from the containers, or the containers must be covered during transport so that the labels are not visible.
- The empty containers must have an Unconditional Radiological Release or exemption from unconditional survey prior to shipment. The sticker should be attached to the Hazardous Waste Manifest No. RHO-19-31 - TRASH.

Central Landfill Chemical Trench

Items listed for disposal in the Chemical Trench must be prepared as follows:

- Packaging
  - The plastic bag of 2,4D-contaminated waste must be in a DOT 17H drum. Any void space in the drum should be filled with absorbent material. The drum should be full when closed.
- Labeling
  - The drum must bear a properly completed EPA hazardous waste sticker. An approved sticker is enclosed for your use.
- Marking
  - The drum must be marked with the DOT proper shipping name and identification number, as given in the attached table.
  - The drum must be marked "ORM-A" immediately below the proper shipping name and contained within a rectangle measuring at least 1/4 inch larger on all sides than the lettering area.

Marking (continued)

- The drum must be marked with the manifest number and an unique container number (e.g., RHO-19-31-1).

- The drum must be marked with the weight, if over 110 pounds.

Items Requiring Additional Information

Items listed below, contained within the reference waste disposal request, cannot be processed at this time due to lack of information. A new, partially completed request form with the assigned number, RHO-20-03, is enclosed. Please sign and return this form.

The "Krovar" and "Nalcotrol" containers cannot be designated due to a lack of composition and physical property data. Material Safety Data Sheets for these items have been requested from HEHF. Request No. RHO-20-03 will be processed following receipt of these data sheets.

DISPOSAL ANALYSIS NO. RHO-19-31

ITEM NO.	DOT HAZARD CLASS	DOT SHIPPING NAME	WDOE NO.	USDOT ID NO.	DOT/EPA LABEL	CONTAINERS QUANTITY	CONTAINERS TYPE	QUANTITY PER CONTAINER
		CENTRAL LANDFILL TRASH TRENCH - MANIFEST RHO-19-31 - TRASH						
1	None	Triple Rinsed "Banvel" Containers	None	None	None	6	2.5 Gal Plastic	0
2	None	Triple Rinsed "Fenamine" Containers	None	None	None	28	2.5 Gal Plastic	0
3	None	Triple Rinsed 2,4-D Containers	None	None	None	8	5 Gal Metal Can	0
4	None	Triple Rinsed "Roundup" Containers	None	None	None	4	1 Gal Plastic	0

DISPOSAL ANALYSIS NO. RHO-19-31

ITEM NO.	DOT HAZARD CLASS	DOT SHIPPING NAME	WDOE NO.	USDOT ID NO.	DOT/EPA LABEL	CONTAINERS QUANTITY	CONTAINERS TYPE	QUANTITY PER CONTAINER
		CENTRAL LANDFILL CHEMICAL TRENCH - MANIFEST RHO-19-31						
1	ORM-A	2,4 Dichloro-phenoxy Acetic Acid (<1%)	D016	NA2765	EPA Hazardous Waste	1	55 Gal Drum	40 Lb of Solid Waste of <1% 2,4-D

Complete un 1 parts and forward
to: 6 U
2 06/200E
F H

TITLE (9 1 1 2 1 1 3 6 Rockwell Hanf Operations
CHEMICAL WASTE [SAL REQUEST

Logbook No.

Manifest(s) cross-reference
RHO-19-31

received 10-21

Requested by	Telephone Number	Address	Company
L. GUERRA	3-2351	200-W 2713-W	RHO

Signature Lyrice Guerra Date 10-14-85

Radiation Monitoring Release Survey
Card Number (If Applicable)

WASTE DESCRIPTION (For additional items, continue on the back of this form)

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	None	MT	
1.	6	2½ gal.	0	plastic	Triple Rinsed Barrel Containers		0	NA	None	NA	T.R.	
2.	28	2½ gal.	0	plastic	Triple Rinsed Fenamine Containers		0	NA	None	NA	T.R.	
3.	8	5 gal.	0	metal can	Triple Rinsed 2-4,D Containers		0	NA	None	NA	T.R.	
4.	4	1 gal.	0	Plastic	Triple Rinsed Roundup Containers		0	NA	None	NA	T.R.	
* 5.	20	Boxes	0	5 lb. Paper bags	KROKAR I	Need MSDS - physical Properties	0	NA	None	NA	---	
* 6.	80 ~~33~~	1 qt.	0	Plastic	NALCO-TROL Drift Retardent	Need MSDS - Composition	0	NA	None	NA		
7.	1	5.00? Bag 30 ft	740 lb 0	Plastic	(2 pr. Coveralls) Miscellaneous Materia	2-4 D Picloram, etc Contaminated	0	NA	None	NA		

~~Item # 5 & 6 are not licensed~~ → Contaminants?

He will try to get Nalco-Trol information.

INSTRUCTIONS

COLUMN A - ITEM NUMBER — Item number

COLUMN B - NUMBER OF CONTAINERS — N be disposed.

COLUMN C - CONTAINER SIZE — Size of con container sizes, specify number and size of e

COLUMN D - TOTAL WASTE QUANTITY — (g) each unique waste to be disposed.

COLUMN E - CONTAINER DESCRIPTION — (glass bottle.

COLUMN F - WASTE DESCRIPTION — Specify unique waste.

COLUMN G - CHEMICAL COMPONENTS — L the unique waste using specific chemical na analytical data, or other documents to adequa

COLUMN H - WEIGHT (%) — For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages

COLUMN I - PHYSICAL STATE — Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.

COLUMN J - HAZARDS — Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.

COLUMN K - WASTE STATUS — Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).

COLUMN L - CONTAINER STATUS — Indicate whether container is: Full (F), Partially Full (PF), Empty (< 1 in) (MT), Triple Rinsed (TR).