1983 DANGEROUS WASTE ONSITE SHIPMENT RECORDS - INDEX TO FILES IN BEIGE CABINET

2727-S STORAGE
DISPOSAL REQUEST NO.

1-21*
1-27*
1-31*
1-33
1-35
1-41*
2-3* 2-15*
2-17*
2-31
2-35*
2-39
3-7*
3-9*
3-27*
3-29*
3-35
3-37*
3-39*
4-1
4-5
4-9*
4-11
4-23
4-35
5-1*
5-27
5-29
6-7

CHEMICAL TRENCHES
CENTRAL LANDFILL
DISPOSAL REQUEST NO.

1-17
1-21*
1-23
1-25
1-27*
1-29
1-31*
1-41*
1-43
2-3*
2-5
2-7
2-9
2-11
2-15*
2-17*
2-19
2-27
2-29
2-35*
2-37 3-1
3-3
3-5
3-7*
3-9*
3-13
3-21
3-23
3-25
3-31
3-33
3-41
3-43

4-3
4-7
4-9*
4-13
4-37
5-1*
5-3
5-19
5-23
6-17

3-27*
3-29*
3-37*
3-39*

PCB STORAGE
DISPOSAL REQUEST NO.

2-15*
2-21
5-33

ASBESTOS
DISPOSAL REQUEST NO.

1-1
1-13
2-23
2-25
2-33
2-41
3-11
3-17
4-21
4-25
4-33
4-41
4-43
5-11
5-13
5-15
5-25
5-35
5-37
5-43
6-1
6-13
6-15
6-21
6-27
6-31
4-15

CLOSED OUT
DISPOSAL REQUEST NO.

1-7
2-1
2-43
3-15
3-27*
4-31
5-5

*RECORDS INVOLVE SHIPMENT TO MORE THAN ONE LOCATION. THE COMPLETE SET OF RECORDS MAY BE DISTRIBUTED AMONG TWO OR MORE FILES.

FEB 1991
RECEIVED
EDMC

BEST AVAILABLE COPY

START

00000001

0012910

Attachment 1

Central Landfill Log

Instructions to Users: On the first working day of each month, please complete this form for the previous month. Return this to your supervisor once completed even if "none" is the answer to all questions.

Month: Jan, 1983 Completed by: TR Hendrix Date: 2-1-83

Started excavation on Trash Trench #37N, series 37, on 1-28-83. Closed trash Trench #38N, series 35, 1-28-83.

Major operational problems/dates: None

Complaints: None

Litter Control efforts/dates: None

Dust Control efforts/dates: None

Unusual Wastes received/dates/source: Asbestos: 2 Chemical: 0

OK G.R.C.

Solid Waste Volume:

HEDL:	34
BNW:	8
JAJ:	276
JAJ CONT:	376
RHO:	1312
OTHER:	100

TOTAL CU YDS: 2106

LIQUID WASTE: 3000

Trenches:

Trash	#42N
Asbestos	#21N
Chemical	#31N

0000002

Attachment 1

Central Landfill Log

Instructions to Users: On the first working day of each month, please complete this form for the previous month. Return this to your supervisor once completed even if "none" is the answer to all questions.

T.R. Hendrix

Month: February 1983 Completed by: T.R. Hendrix Date: 2-28-83

Started excavation #37N, series 37, on 2-7-83, on trash trench.

Major operational problems/dates: None

Complaints: None

Litter Control efforts/dates: None

Dust Control efforts/dates: None

Unusual Wastes received/dates/source: Asbestos: 3 1 Chemical: 3 4 Doesn't Check GRC

Solid Waste Volume:

HEDL:	16
BNW:	8
JAJ:	202
JAJ CONT:	252
RHO:	1288
OTHER:	125

TOTAL CU YDS: 1891

LIQUID WASTE: 5750

Trenches:

Trash	#42N
Asbestos	#21N
Chemical	#31N

0000003

Attachment 1

Central Landfill Log

Instructions to Users: On the first working day of each month, please complete this form for the previous month. Return this to your supervisor once completed even if "none" is the answer to all questions.

Month: March 1983 Completed by: [illegible] Date: April 1

Started excavation of Trash Trench #48N & #49N.

Major operational problems/dates: None

Complaints: None

Litter Control efforts/dates: None

Dust Control efforts/dates: None

Unusual Wastes received/dates/source: Asbestos: 0 Chemical: 5

Doc at check GRC

Solid Waste Volume:

HEDL:	46
BNW:	
JAJ:	422
JAJ CONT:	328
RHO:	1308
OTHER:	125

TOTAL CU YDS: 2229

LIQUID WASTE: 9500

Trenches:

Trash	#37N & #42N
Asbestos	#21N
Chemical	#31N

0000004

Attachment 1

Central Landfill Log

Instructions to Users: On the first working day of each month, please complete this form for the previous month. Return this to your supervisor once completed even if "none" is the answer to all questions.

Month: April, 1983 Completed by: T.R. Hendrix Date: 5-2-83

Major operational problems/dates: None

Complaints: None

Litter Control efforts/dates: None

Dust Control efforts/dates: None

Unusual Wastes received/dates/source: Asbestos: 2
Chemical: 3

Solid Waste Volume:

HEDL:	50
BNW:	54
JAJ:	502
JAJ CONT:	294
RHO:	1818
OTHER:	150
UNC:	4

TOTAL CU YDS: 2872
LIQUID WASTE: 16250

Trenches:

Trash	#37N & #42N
Asbestos	#21N
Chemical	#33N

0000005

Attachment 1

Central Landfill Log

Instructions to Users: On the first working day of each month, please complete this form for the previous month. Return this to your supervisor once completed even if "none" is the answer to all questions.

Month: May 1983 Completed by: T. R. Hendrix Date: 6-1-83

Finished excavation on double trash trench #48N & #49N on 5-17-83.

Major operational problems/dates: None

Complaints: None

Litter Control efforts/dates: None

Dust Control efforts/dates: None

Unusual Wastes received/dates/source: Asbestos: 2

Chemical: 5

Solid Waste Volume:

HEDL:	84
BNW:	24
JAJ:	978
JAJ CONT:	534
RHO:	1656
OTHER:	175

TOTAL CU YDS: 3451

LIQUID WASTE: 12250

Trenches:

Trash	#42N & #37N
Asbestos	#21N
Chemical	#31N

0000006

Attachment 1

Central Landfill Log

Instructions to Users: On the first working day of each month, please complete this form for the previous month. Return this to your supervisor once completed even if "none" is the answer to all questions.

Month: 7-1-83 Completed by: Denny C. Koch for T.R. Hendrix Date: 7-6-83

Major operational problems/dates: None

Complaints: None

Litter Control efforts/dates: None

Dust Control efforts/dates: None

Unusual Wastes received/dates/source: Asbestos: 12
Chemical: 4

Solid Waste Volume:
HEDL: 74
BNW:
JAJ: 1346
JAJ CONT: 264
RHO: 2124
OTHER: 335

TOTAL CU YDS: 4143
LIQUID WASTE: 15,350

Trenches: Trash #42N, #48/49N *Closed #37N
Asbestos #21N
Chemical #31N

0000007

Attachment 1

Central Landfill Log

Instructions to Users: On the first working day of each month, please complete this form for the previous month. Return this to your supervisor once completed even if "none" is the answer to all questions.

Penny C. Koch

Month: 8-1-83 Completed by: P. C. Koch Date: 8-3-83

Major operational problems/dates: None

Complaints: None

Litter Control efforts/dates: None

Dust Control efforts/dates: None

Unusual Wastes received/dates/source: Asbestos: 1
Chemical: 5

Solid Waste Volume:
HEDL: 70
BNW: 25
JAJ:
JAJ CONT:
RHO: 1232
OTHER: 274

TOTAL CU YDS: 1632
LIQUID WASTE: 13,300

Trenches:
Trash #42N, #48/49N
Asbestos #21N
Chemical #31N

0000008

Attachment 1

Central Landfill Log

Instructions to Users: On the first working day of each month, please complete this form for the previous month. Return this to your supervisor once completed even if "none" is the answer to all questions.

Month: 9-6-83 Completed by: T.R. Hendrix Date: _____

Major operational problems/dates: None

Complaints: None

Litter Control efforts/dates: None

Dust Control efforts/dates: None

Unusual Wastes received/dates/source: Asbestos: 5
Chemical: 1

Solid Waste Volume:

HEDL:	180
BNW:	100
JAJ:	328
JAJ CONT:	1000
RHO:	2453
OTHER:	275

TOTAL CU YDS: 4336
LIQUID WASTE: 17250

Trenches: Trash #48N/#49N Closed #42N, 8-9-83
Asbestos #21N
Chemical #31N

0000009

Attachment 1

Central Landfill Log

Instructions to Users: On the first working day of each month, please complete this form for the previous month. Return this to your supervisor once completed even if "none" is the answer to all questions.

Month: Sept. 1983 Completed by: TR Hendrix Date: 10-5-83

Major operational problems/dates: None

Complaints: None

Litter Control efforts/dates: None

Dust Control efforts/dates: None

Unusual Wastes received/dates/source: Asbestos: 5
Chemical: 1

Solid Waste Volume:

HEDL:	70
BNW:	40
JAJ:	658
JAJ CONT:	832
RHO:	2262
OTHER:	240

TOTAL CU YDS: 4150
LIQUID WASTE: 11000

Trenches:

Trash	#48N/#49N
Asbestos	#21N
Chemical	#31N

0000010

Attachment 1

Central Landfill Log

Instructions to Users: On the first working day of each month, please complete this form for the previous month. Return this to your supervisor once completed even if "none" is the answer to all questions.

Month: October 1983 Completed by: T.R. Hendrix Date: 11-3-83

Major operational problems/dates: None

Complaints: None

Litter Control efforts/dates: None

Dust Control efforts/dates: None

Unusual Wastes received/dates/source: Asbestos: 4
Chemical: 6

Solid Waste Volume:

HEDL:	100	
BNW:	48	
JAJ:	326	
JAJ CONT:	284	
RHO:	2441	275 drums
OTHER:	210	

TOTAL CU YDS: 3409
LIQUID WASTE: 22500

Trenches: Trash #48N & #49N
Asbestos #21N
Chemical #31N

Started excavation of #36N, Series 39 10-21-83

Attachment 1

Central Landfill Log

Instructions to Users: On the first working day of each month, please complete this form for the previous month. Return this to your supervisor once completed even if "none" is the answer to all questions.

Month: November 1983 Completed by: TR Hendrix Date: 12-2-83

Major operational problems/dates: None

Complaints: None

Litter Control efforts/dates: None

Dust Control efforts/dates: None

Unusual Wastes received/dates/source: Asbestos: 3
Chemical: 1

Solid Waste Volume:
HEDL: 34
BNW: 24
JAJ: 288
JAJ CONT: 326
RHO: 2140
OTHER: 235

TOTAL CU YDS: 2812
LIQUID WASTE: 29,000

Trenches:
Trash #39N
Asbestos #21N
Chemical #31N

CLosed #48N & #49N

0000012

Attachment 1

Central Landfill Log

Instructions to Users: On the first working day of each month, please complete this form for the previous month. Return this to your supervisor once completed even if "none" is the answer to all questions.

T. R. Hendrix

Month: Dec. 1983 Completed by: TR Hendrix Date: 1-6-84

Major operational problems/dates: None

Complaints: None

Litter Control efforts/dates: None

Dust Control efforts/dates: None

Unusual Wastes received/dates/source: Asbestos: 1
Chemical: 1

Solid Waste Volume:

HEDL:	8
BNW:	
JAJ:	104
JAJ CONT:	204
RHO:	1978
OTHER:	180

TOTAL CU YDS: 2474
LIQUID WASTE: 17750

Trenches:

Trash	#36N
Asbestos	#24N/25N (previous reporting as #21N in error)
Chemical	#31N

0000013

Rockwell

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 M.C. Thompson TELEPHONE 6e-7110

BUILDING/AREA 1166 / 1100

II. IDENTIFICATION OF MATERIAL

TRADE NAME Stock #51-0100-475

CHEMICAL NAME Phosphoric Acid

STORAGE LOCATION Acid House - 1100 area

CONTAMINATED WITH RADIOACTIVE MATERIAL? YES ____ NO ✓

III. PACKAGING

LIQUID ✓ SOLID ____ GAS ____

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

TYPE OF CONTAINER ____ AGE OF CONTAINER ____

IV. REASON FOR DISPOSAL

Old - solidified/crystalized

V. DATE DISPOSAL REQUIRED

ASAP

VI. COMMENTS

See attached RDR # 82-270

Land fill at Chemical Trench/Central Landfill

APPROVED FOR DISPOSAL BY Harry R. Cox

DATE March 7, 1983

DISPOSAL LOCATION Chemical Trench

BY D.E. Phelps

DATE 3-21-83

Called & talked to Steve Weel w/Mark L.

0000014

9112192133

ROCKWELL HANFORD OPERATIONS

NAME OF CONTRACTOR

PROPERTY DISPOSAL REQUEST

70430

CONTROL: RHO-270

CROSS CONTROL NO

PART I — DESCRIPTION OF PROPERTY AND REASON FOR DISPOSAL

ITEM	QTY.	UNIT	INCLUDE IDENTIFICATION NUMBERS, SUCH AS: HEW. EQUIPMENT PIECE, SERIAL NOS., BUILDING FROM WHICH REMOVED, PROJECT AFFECTED, ETC.	UNIT ACQ. VALUE	ACCOUNTING USERY TOTAL VALUE	PROPERTY MGT. USE ONLY. DISPOSE OF AS *
1	1	EA	51-0100-475 PHOSPHORIC ACID			#2
2	35	C	54-2160-248 FORMS RL 248			#3
3	1	EA	57-4450-140 GLASS			#5
4	3	EA	57-1292-055 GLASS GROUND JOINT			#5
5	260	EA	16-0001-001 16 CARGBOXS			#5
6	1	EA	57-0760-100 GRADUATED CYLINDER GLASS			#5
7	1	EA	17-4860-940 LAMPS 200 WATT			#5
8.	2	EA	12-7310-002 OIL			#5
9.	1	EA	57-1026-250 FLASK			#5
10	1	EAS	18-2693-150 FILM			#2
11	1	BOX	53-7570-113 RIBBONS			#2
12						

* 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. OLD - SOLIDIFIED
2. OLD REVISION
3. BROKEN WHEN RECEIVED
4. BROKEN WHEN RECEIVED
5. OLD REVISION*
6. BROKEN WHEN RECEIVED
7. BROKEN WHEN RECEIVED
8. BROKEN IN HANDLING
9. BROKEN WHEN RECEIVED
10. DEFECTIVE
11. DAMAGED IN HANDLING

*** CERTIFIED TO BE FREE OF CONTAMINATION:
SIGNED: M.C. Thompson
M.C. THOMPSON, MGR WAREHOUSING AND DISTRIBUTION

THE PROPERTY LISTED ABOVE — ☐ IS ☒ IS NOT — TOXIC OR HAZARDOUS TO HUMANS, AND/OR THE ENVIRONMENT

COMPONENT	DATE	LOCATION OF MATERIAL
MATERIAL - WAREHOUSING AND DISTRIBUTION	4-28-82	

ORIGINATOR	BUILDING	PHONE	LOCATION OF BURIAL
M.C. Thompson M.C. THOMPSON	1166	376-7110	

RM CLEARANCE FOR PUBLIC SALE	SURVEY NO.	DATE
M.C. Thompson	VR	

SIGNATURE OF REQUESTING AUTHORITY: M.C. Thompson
M.C. THOMPSON

PART II — INVESTIGATION

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

BY: J. J. Burke — DATE: 5/13/82

PART III — DISPOSITION RECEIPT

BY: [illegible] — DATE: 5/13/82

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

14-3000-217 (4-78)

0000015

MEMORANDUM COPY

9112121291324

Rockwell 77

1-17

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 Jim Kneiszel TELEPHONE 6-6764

BUILDING/AREA 1169 Bldg. / 1100 Area

II. IDENTIFICATION OF MATERIAL

TRADE NAME Phosphoric Acid

CHEMICAL NAME Same

STORAGE LOCATION 1169 Bldg. (Acid House)

CONTAMINATED WITH RADIOACTIVE MATERIAL? YES ____ NO ✓

III. PACKAGING

LIQUID ____ SOLID ____ GAS ____

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

TYPE OF CONTAINER ____ AGE OF CONTAINER ____

IV. REASON FOR DISPOSAL

Old - Crystallized

V. DATE DISPOSAL REQUIRED

ASAP

VI. COMMENTS

Attached PDR # RHO-82-270.

APPROVED FOR DISPOSAL BY Gary R. Cox

DATE January 21, 1983

DISPOSAL LOCATION Chemical Trench

BY D E Phelps

DATE 3-21-83

0000016

9112175

HAZARDOUS WASTE MANIFEST

THIS MEMORANDUM

is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, a copy or duplicate, covering the property named herein and is ...

MANIFEST DOCUMENT NUMBER

ONSITE 3068-1

BEST AVAILABLE COPY

TO:	FROM:
T/S/D FACILITY [illegible]	Generator [illegible]
E.P.A. ID Code No. WA 789-000-4967	E.P.A. ID Code No. WA 741-000-4917
Address	Address [illegible]
Destination [illegible]	Origin [illegible]
Phone N/A	Phone [illegible]

No. Shipping Units	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Haz. Mat. I.D. No.	EPA Haz Waste No.	WEIGHT	LABELS REQUIRED (or Exemption No.)
1	[illegible], WASTE	Corrosive	UN [illegible]		[illegible]	[illegible]

PLACARDS REQUIRED [illegible]

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 N/A
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 3-7-83

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

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 [illegible]

TREATMENT/STORAGE/DISPOSAL FACILITY

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

T/S/D FACILITY Signature _____ Date _____

COPY 0000017

HAZARDOUS WASTE

HAZARDOUS WASTE

9 1 1 2 1 1 2 7 3 2 6

Ved. 6-1 5-55 gal. 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: Gary 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: X Chemical Trench, Asbestos Trench,

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

III. TRANSPORTATION/DISPOSAL

Transporter(s) Name: L. A. Davis Phone: 6-6654 Address: 1171 Company RHO

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

C. Transporter(s) Signature: Larry A. Davis, D. E. Shelton

0000018

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

X= ~~save~~ +

21

Note: Those items which require separate packaging 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	~~Biorex Ion 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, 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/oxidizer)	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 Permangate) 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
~~Feric Ammonium Sulfate~~	~~6 lbs.~~ #2
~~N1N - 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
	DBBP Di butyl butyl phosphonate	500 ml. — #4
X	~~Ammonium Biflouride~~	~~1 lb.~~ +
	$KMnO_4$ (Potassium Permangate)	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 Amm~~ 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.~~ (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
TBP 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 50W-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~~ (~~$CaSe_4$~~)	~~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 Bldg

234-5 Z Plant Waste

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
1 foot of absorbent

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

1

requires separate packaging

Oxidizers:

Cerric Nitrate - 1 lb. #3
Potassium Nitrate Crystals - 3 lb. #3
$KMnO_4$ - 250 ml #3
Potassium Bromate - 1/4 lb. #3
Bromine - 1 lb. #3

Hydrogen Peroxide - 250 ml - sink disposal
Sodium Nitrate - 13 lbs. #3
Magnesium Perchlorate - 1 lb. #3
Nickel Nitrate - 1 lb. #3
Fuming HNO_3 - 1/2 gallon packaged separately
.25 Lead Nitrate - 1 quart #3

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

Reacts with oxidizers.
Butylacetate - 5 gallons.
N-Butyl Alcohol - 250 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.
~~Methylisobutyl Ketone - 2 pints~~

Potassium Persulfate - 1 lb. #3

Explosive:

Cupric Nitrate 1/4 lb.
Ferric Nitrate 1 lb., 1/4 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.
~~Valeric Acid - 1qt.~~

Sodium MetaBisulfate - 12lb., 1lb.
Sodium Sulfite - 1lb.
Sodium Bisulfate Monohydrate - 10lbs.
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.
N-Pheneyl benzohydroxamic Acid - 25g
Fluoride Adjustment Buffer - 1lb.
Ceric Sulfate in 1N H_2SO_4 - 1pint
Ethylhexyl Hydrogen Phosphite - 125ml.

1-Phenanthroline Ferrous Sulfate Complex - 125ml.
O-toluidine Dihydrochloride - 1lb.
Acid Potassium Phthalate - ¼lb.
~~Benzion Anti-Oxine - 125g.~~ C
~~N,N-A Methyl P-Nitrosoaniline - 25g~~ C
Acid Arsenious - 1lb.
~~[illegible] - 1gallon~~ 2
Methylmethocylate - 1gallon organic

1-21

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
- 150 Amyl Alcohol - 1 pint
- Benzion Anti-Oxime - 25 g.
- N_1N-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 - 6¼ 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 - ¼ lb
- Barium Chloride - 8 lb
- Cerium Nitrate - ¼ lb
- Lanthanum Nitrate - ¼ 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 - ¼ lb, ¼ 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 Permangate – 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 Permangate 250ml.
Rm 141-A Bromo Oresol Purple Sodium – 5gram
Ammonium Citrate – 2lbs.
tetrapropylammonium Hydroxide 25grams

Rm. 143 – Sodium Bisulfate – 1lb
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-1/4lb. (top of drum)
Hydroxylamine Hydrochloride-8lbs.
Diethylene Triamine Penta acetic Acid-1/4lb.

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
Methy methocylate-1 gallon
Tributylphosphate-1 gallon
Butylsteorate-2 gallons

Rm139 150 Amyl Alcohol-1pint
Methylisobutyl Ketone-5pints

0000030

X= ~~save~~ +

21

Note: Those items which require separate packaging 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	~~Biorex Ion 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, 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/oxidizer	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 Permangate) 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
~~Feric 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 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
DBBP Dibutyl butyl phosphonate	500 ml.	#4
X ~~Ammonium Biflouride~~	~~1 lb.~~	+
$KMnO_4$ (Potassium Permangate)	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. 3 (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
TBP Tributylphosphate	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) 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 50W-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	~~Brierite~~ (~~$CaSe_4$~~)	~~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

#4 Organic Chemicals for Disposal
Central Landfill

Rm. 154 Ascarite - 3 lb.

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

Assume 55-gal drum

Rm. 143 Sulfamic Acid - 5 lbs (top of drum)
O-tolidine Dihydrochloride - 1 lb.
Ascarite - 12 lbs.
Glycolic Acid - 1/4 lb. (top of drum)
Hydroxylamine Hydrochloride - 8 lbs.
Diethylene Triamine Penta acetic Acid - 1/4 lb.

Rm 141-A Hydroxylamine Hydrochloride - 1 lb.
Dibutyl Butylphosphonate - 200 ml., 500 ml.
Dichloridimethyl silane - 200 ml.
N-Tridecane - 125 ml.
Formic Acid - 250 ml., 250 ml. (bottom of barrel)
I-So Amyl Alcohol - 1 pint
Amyl Acetate - 1 pint
Methy methocylate - 1 gallon
Tributylphosphate - 1 gallon
Butylsteorate - 2 gallons

Rm 139 ISO Amyl Alcohol - 1 pint
Methylisobutyl Ketone - 5 pints

0000037

#4 Organic Chemicals for Disposal
Central Landfill

Rm. 154 Ascarite - 3 lb.

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

Assume 55-gal drum

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

Rm 141-A Hydroxylamine Hydrochloride - 1 lb.
Dibutyl Butyl phosphonate - 200 ml., 500 ml.
Dichloridimethyl silane - 200 ml.
N-Tridecane - 125 ml.
Formic Acid - 250 ml., 250 ml. (bottom of barrel)
I-So Amyl Alcohol - 1 pint
Amyl Acetate - 1 pint
Methy methocylate - 1 gallon
Tributyl phosphate - 1 gallon
Butyl stearate - 2 gallons

Rm 139 150 Amyl Alcohol - 1 pint
Methylisobutyl Ketone - 5 pints

0000038

Chemicals Requiring Separate Packaging (Onsite Disposal)

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

BEST AVAILABLE COPY

Chemicals Requiring Separate Packaging (Onsite Disposal)
Central Landfill

		Est. burial volume
Rm. 135	Oxalic Acid - 1lb.	.03 ft³
	Sodium Hydroxide - 1lb.	.03
Rm 141-A	Aluminum Chloride - 1lb.	.03
	Aluminum Nitrate - 1lb.	.03
	Hypo-phosphorus Acid - 3 pints	.05
Rm. 143	Magnesium Perchlorate - 1 lb.	.03
	Acid Ansenious - 1lb.	.03
Rm. 141-A	Petroleum Ether - 25ml.	.01
Rm. 154	Magnesium Perchlorate - 3lb.	.05
Rm 134	Hydroiodic Acid - 10 pints	.30
.154	Hydroiodic Acid - 20 pints	[illegible]

Each packaged separately.

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-Sulfonic Acid - 1 pint
Rm. 143 Trioctylphosphine - 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

Package as is (separate from other columns)

Rm 141-A - 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 - 5C
Rm. 155 - Silver Nitrate - 1/4 lb.
.25 m Lead Nitrate - 1 quart

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-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 from other columns)

Rm 141-A - 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 - 50
Rm. 155 - Silver Nitrate - 1/4 lb.
.25 m Lead Nitrate - 1 quart

one 55-gal drum
one 30 gal drum

Return to
J. H. Litzinger
22-T / 200 W
HO

Vargas

UNC

1-23

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 WV COOK TELEPHONE 3-1420

BUILDING/AREA 105DR / 100D

II. IDENTIFICATION OF MATERIAL

TRADE NAME

CHEMICAL NAME Lithium Nitrite & Reaction Debris

STORAGE LOCATION 105DR

CONTAMINATED WITH RADIOACTIVE MATERIAL? YES ____ NO X

III. PACKAGING

1. 390 #
2. 400 #
3. 350 #

LIQUID ____ SOLID X GAS ____

NUMBER OF CONTAINERS 3 WEIGHT ____ EA. VOLUME 55gal EA.

TYPE OF CONTAINER Steel Drum AGE OF CONTAINER New

IV. REASON FOR DISPOSAL

By-product waste

V. DATE DISPOSAL REQUIRED

2/15/83

VI. COMMENTS

Material has already been reacted and absorbed.

APPROVED FOR DISPOSAL
BY [illegible]
DATE January 28, 1983

DISPOSAL LOCATION Land Fill
Chemical Trench
BY [illegible]
DATE 2-3-83

0000043

9112191772

Stephens

Rockwell

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

#25

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 2W Company: R.H.O.

B. Custodian's Name J.S. BUCKINGHAM Phone: 3-2487 Address: MO-037 2W Company: R.H.O.

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. METAL DRUMS (Chem)		55 GAL	31				EMPTY
2. PLASTIC DRUM (Chem)		55 GAL.	1				EMPTY
3. METAL DRUMS (Chem)		30 GAL.	2				EMPTY
4. METAL TANK ON LEGS (Chem)		55 GAL.	1				EMPTY
5.		Total	3955-+	3-20 gal			DER aspen Corp

D. Have appropriate labels been affixed to containers? YES - ~~Not required~~ EMPTY TAGS

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: WEST END of 202-S 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: WILL BE SURVEYED S-83-0124 R.C. Crawford,

Generator's Signature: G. L. Gurwell Date: January 19, 1983

II. APPROVAL

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

Date: 1/28/83 Signature: Gary R. Cox

B. Packaging Requirements (specify): None

LAND FILL CHEMICAL TRENCH 2-3-83 D E Phelps

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

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

III. TRANSPORTATION/DISPOSAL

Transporter(s) Name: W.A. STEPHENS JR Phone: 66654 Address: 1171 Company R.H.O

B. Date Transported/Disposed: 2/3/83

C. Transporter(s) Signature: W.A. Stephens Jr.

0000044

E 87570

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

Rockwell

129

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 U Stubblefield Phone: 373-2323 Address: 202A 200E Company: Rockwell

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. EMPTY 55 GAL. DRUMS	26						
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? YES

F. Has waste been treated in any manner? Flushed If so, how? Flushed

G. Storage Location: 211-A

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: A0830305

Generator's Signature: G U Stubblefield Date: 1/31/83

II. APPROVAL

A. Approved for disposal by Name: G.R. Cox Phone: 3-3679 Address 202-S/2-H Co.: RHO

Date: February 2, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): N/A

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

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

D E Phelps

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: Sentinels Phone: 66654 Address: 1171 Company RHO.

B. Date Transported/Disposed: 2-9-83

C. Transporter(s) Signature: [illegible]

0000045

9112139134

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

...31 a...fest

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 XXXXXXXXX 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: Gary 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 offsite shipment and disposal. Other, _____

III. TRANSPORTATION/DISPOSAL

A. 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)

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

1-34

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 reacts w/ oxidizer	7 pts.	GLASS	7		X		
2. P-DIOXANE reacts w/ oxidizer	2 gal.	GLASS	4-1/2 gal.		X		
3. 1-OCTANOL reacts w/ oxidizer	5 1/2 gal.	GLASS	5-1/2 GAL.		X		
4. TOLUENE EHW reacts w/ oxidizer	6 pts	GLASS	6		X		
5. THERMITE Exp/.	~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 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/200-W 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 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. & 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. TETRO Chloro-ETHYLENE EHW	10 pts.	GLASS	10		X		
8. 1,2,4 TRICHLORO-BENZENE ~ reacts w/ oxidizer	~20 kgs	GLASS	19		X		
9.							
10.							
11. ★ alkylaryl polyether alcohol							
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							
21.							
22.							
23.							
24.							
25.							
26.							
27.							
28.							
29.							
30.							
31.							
32.							
33.							
34.							

1-3

0000048

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

9112180177

DRUM # 2 — Central Landfill

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
1. 1,2,4 TRICHLORO-BENZENE	19Kgs	~QUART GLASS	19		X		1-3
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.							
15.							
16.							
17.							
18.							
19.							
20.							
21.							
22.							
23.							
24.							
25.							
26.							
27.							
28.							
29.							
30.							
31.							
32.							
33.							0000049
34.							

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

9112171178

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 & 1b	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 Jeene M 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: 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)

9112121379

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
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 Jeene M Hobbs Date: 25 Feb 83

II. **APPROVAL**

A. Approved for disposal by Name: Gary R. Cox Phone: 3-3679 Address 202-S/204W 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**

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

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

0000051

BC-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, but a copy or duplicate, covering the property named herein, and is intended solely for reference. This document corresponds to disposal requests numbered PNL-003,007, 010,013, & 014 (or parts thereof) also 015 and 018

DR 1-41 (003) 3-31-(015)
3-5 (007) 3-39-(018)
3-9 (010)
3-23 (013)
3-27 (014)

MANIFEST DOCUMENT NUMBER

PNL-M-83-006

F-1-2 1-41

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. WA7-89-000-8967
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

No Shipping Units	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Haz Mat. ID No	EPA Haz 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 _____

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 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

HAZARDOUS WASTE

HAZARDOUS WASTE

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

I-43

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

A. Generator's Name: L.K. SERL Phone: 3-2642 Address: 2722-W Company: ROCKWELL

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
1. UNKNOWN ACID	QUART	GLASS	1		✓		
2. S	PINT	PLASTIC	1		✓		
3. UNKNOWN ACID	3/4 GAL	GLASS	1		✓		
4.							
5.							

D. Have appropriate labels been affixed to containers? NO Not required _____

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

F. Has waste been treated in any manner? _____ If so, how? UNKNOWN

G. Storage Location: 2722-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: WILL BE SURVEYED

Generator's Signature: L.K. Serl Date: 3/1/83

TAKEN CARE OF IN LAB. 10/10/93

II. **APPROVAL**

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

Date: March 1, 1983 Signature: G.R. Cox

B. Packaging Requirements (specify): To be packed in absorbant for disposal in chemical trench at Central Landfill

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: _____

0000053

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

9112183172

E 69792 / 320 Rockwell

2/3

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. Burch Phone: 3-2484 Address: 222S 200W Company: Rockwell

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
#2	1. gasoline	170 ml	glass	2		✓		
x	2. xylene	4000 ml	glass	12		✓		
x	3. toluene	1000 ml	glass	3		✓		
x	4. cyclohexane	1000 ml	glass	2		✓		
	5. ~~3-methylpentane~~	~~1000 ml~~	~~glass~~	~~2~~		✓		

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: _____

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: Gayle Burch Date: 12-6-82

II. APPROVAL

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

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

B. Packaging Requirements (specify): Already in storage at 2727-S Bldg. (Off site Shipment (Bldg.)

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

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

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: John W. Carr Phone: 86654 Address: 1171 Company RHO

B. Date Transported/Disposed: 3/21/83

C. Transporter(s) Signature: John Wayne Carr

0000054

OE Phelps Chemical Trench 3-21-83

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

9112183313

	Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
#1	6. tetra-n-propyl ammonium hydroxide	40 ml	poly bottle	1		✓		
	7. Di-n-butyl sulfoxide	400 ml	glass	4		✓		
X	8. 2,4-D-amine	100 ml	poly	1		✓		
X	9. Dicamba	200ml	poly	1		✓		
X	10. Treflan	200ml	poly	1		✓		
	11. ~~30% Hydrogen Peroxide~~	~~200ml~~	~~glass~~	1		✓		
X	12. Tordon	200ml	poly	1		✓		
	13. 50% Hydrogen Peroxide	500ml	poly	1		✓		
#3	14. Type B Polymer holdup	200ml	poly	1		✓		
	15. Type A Polymer	200ml	poly	1		✓		
	16.							
	17.							
	18.							
	19.							
	20.							
	21.							
	22.							
	23.							
	24.							
	25.							
	26.							
	27.							
	28.							
	29.							
	30.							
	31.							
	32.							
	33.							
	34.							

0000055

9112182173 4

RADIATION RELEASE

BLDG. 202-S DATE 3-9-83

RELEASED BY R.C. Crawford
RADIATION MONITORING

REMARKS: Survey 5-83-0305
10-Empty Drums

54-3000-022 (5 - 57)

Rockwell

25

TIVE HAZARDOUS WASTE

I. GEN

orm to: WS&DT
202-S/200 West
Reckwell

A. Generator's Name: G.L. GURWELL Phone: 3-3490 Address: 2704-S Bldg 200 West Company: RHO

B. Custodian's Name: J.S. BUCKINGHAM Phone: 3-2487 Address: MO-037 200 West 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. Tri Chlorobenzene	MT.	55gal Drum	1				
2. Oil Drums	MT.	55gal "	2				
3. Tributylphosphate	MT.	55gal "	1				
4. NaHCO5 Sodium Bicarbonate	MT.	55gal "	5				
5. " "	MT.	30gal "	1				

D. Have appropriate labels been affixed to containers? _____ 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: WEST End of 202-S 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: To Be Surveyed 3-83-0305 R.C. Crawford

Generator's Signature: G.L. Gurwell Date: March 3, 1983

II. APPROVAL

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

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

B. Packaging Requirements (specify): No problems if empty.

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

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

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: LARRY D. PADILLA Phone: 66178 Address: 1171 Company RHO

B. Date Transported/Disposed: 3-9-83

C. Transporter(s) Signature: Larry D. Padilla

0000056

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

9112183135

Rockwell

REQUEST FOR DISPOSAL OF NONRADIOACTIVE HAZARDOUS MATERIAL

2-7

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 M. C. Thompson TELEPHONE 6-7110

BUILDING/AREA 1166 / 1100

II. IDENTIFICATION OF MATERIAL

TRADE NAME Stock #51-0100-475

CHEMICAL NAME Phosphoric Acid

STORAGE LOCATION Acid House - 1100 area

CONTAMINATED WITH RADIOACTIVE MATERIAL? YES ____ NO ✓

III. PACKAGING

LIQUID ✓ SOLID ____ GAS ____

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

TYPE OF CONTAINER ____ AGE OF CONTAINER ____

IV. REASON FOR DISPOSAL

Old - solidified/crystalized

V. DATE DISPOSAL REQUIRED

ASAP

VI. COMMENTS

See attached PDR # 82-270

Land fill at Chemical Trench/Central Landfill

APPROVED FOR DISPOSAL BY Harry R. Cox

DATE March 7, 1983

DISPOSAL LOCATION Chemical Trench

BY ____

DATE ____

Called & talked to Dave Shercel w/Mark L.

3-21-83?

0000057

Rockwell

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

2-9

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

A. Generator's Name: W.W. TAYLOR Phone: 6-1514 Address: 1166/1100 Company: ROCKWELL

B. Custodian's Name: J.F. KNEISZEL Phone: 6-1514 Address: 1169 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. AMMONIUM FLUORIDE	2 GAL	PLASTIC	2		X		UNKNOWN
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? 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 W W Taylor Date: 3-10-83

II. APPROVAL

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

Date: March 14, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): None

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

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

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: John W. Carr Phone: 66654 Address: 1171 Company RHO

B. Date Transported/Disposed: 3/21/83

C. Transporter(s) Signature: John Wayne Carr

0000058

D E Phelps Chemical Trench 3-21-83

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

9112180913 17

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

ONSITE 3075-1

TO: HANFORD CENTRAL LANDFILL T/S/D FACILITY	FROM: ROCKWELL MATERIAL Generator
E.P.A. ID Code No. WA-789-000-8967	E.P.A. ID Code No. WA-789-000-8967
Address	Address 1166 BUILDING/1100 AREA
Destination CHEMICAL TRENCH	Origin HOT STORES STOCK
Phone N/A	Phone 376-7110

No Shipping Units	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Haz Mat. ID No	EPA Haz Waste No	WEIGHT	LABELS REQUIRED (or Exemption No.)
2	AMMONIUM FLUORIDE 2 EACH 1 GAL.	ORM-B	UN2505		14 LBS	POISON
	PLASTIC JUG					

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 _____

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 N/A
E.P.A. ID Code No. _____
Address _____
Destination _____

EMERGENCY RESPONSE INFORMATION

CONTACT Name GARY 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 W.W. TAYLOR Date 3-16-88

TRANSPORTER #1 _____ E.P.A. ID No. WA-789-000-8967
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

0000059

HAZARDOUS WASTE

9 1 1 2 1 8 2 1 3 7 4 8

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

2-11

A. Generator's Name: RW Higbee Phone: 32950 Address: WESF Company: Rockwell

B. Custodian's Name: J C Fulton Phone: 32924 Address: WESF 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. Turco 4502	125 lb	55 gal drum	1	X			Oxidizer
2.							Corrosive Mat
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? yes If so, how? wrapped in plastic (steel drum)

Storage Location: 225-B HVAC room

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: 68303004

Generator's Signature: RW Higbee Date: 3/17/83

II. APPROVAL

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

Date: 3/24/83 Signature: Gary R. Cox

B. Packaging Requirements (specify): As is

[redacted]

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

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

III. TRANSPORTATION/DISPOSAL

Transporter(s) Name: H J Mapley Phone: 66604 Address: 1171 Company PHO

B. Date Transported/Disposed: 6/2/83 Chemical Trench

C. Transporter(s) Signature: H J Mapley D E Phelps

= 75892

0000060 BC-6700-174.1 (N-1-82)

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: RW Higbee Phone: 32950 Address: WESF Company: Rockwell

B. Custodian's Name: J C Fulton Phone: 32924 Address: WESF 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. Turco 4502	125 lb	55 gal drum	1	X			Oxidizer Corrosive Mat
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? yes If so, how? wrapped in plastic (steel drum)

G. Storage Location: 225-B HVAC room

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: B8303006

Generator's Signature: RW Higbee Date: 3/17/83

II. **APPROVAL**

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

Date: 3/24/83 Signature: G. R. Cox

B. Packaging Requirements (specify): As is

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: _____

6-22-83? 0000061

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

9112139.50

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: MK 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			
react w/ reduce	4. potassium persulfate	500g.	"	1	X			
	5. Chloramine T (cont.)	250g	"	1	X			

D. Have appropriate labels been affixed to containers? X Not required ~~except~~ 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 7 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) #7 212-P (Storage), 2727-S for offsite shipment Other

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: Mapes Phone: 6665 Address: 1171 Company ~~AMTCO~~ RHO

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

C. Transporter(s) Signature: [illegible] Mapes

000006?

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

-17-83 - P.2.

HEHF

2-15

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 ~1% PCB - sent to EHS for analysis, mostly by RHO)	~4L	bottles - glass+plastic	36		X		
8. orthomethoxy phenol	400ml	glass	4		X		
10.							
11.							
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							
21.							
22.							
23.							
24.							
25.							
26.							
27.							
28.							
29.							
30.							
31.							
32.							
33.							
34.							

EHW

9112172

0000063

BC-6700-174.2 (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

HEHF-003

2-15

BEST AVAILABLE COPY

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 747 Bldg/700 Area
Destination	Origin
Phone 373-3679	Phone 376-6980

No Shipping Units	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Haz Mat. ID No	EPA Haz Waste No	WEIGHT	LABELS REQUIRED (or Exemption 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 _____

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)	EMERGENCY RESPONSE INFORMATION
T/S/D FACILITY Rockwell Hanford Op.	CONTACT Name Gary W. Cox
E.P.A. ID Code No.	Phone 373-3679
Address 202S/200W	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 [illegible] Date 4-14-83

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

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

5-1-83

VI. COMMENTS

See attached list for disposition.

APPROVED FOR DISPOSAL BY Gary R Cox

DATE March 28, 1983

DISPOSAL LOCATION Land fill DE Phase Chemical Trench

BY

DATE 5-12-83

0000065

9112180134

CHEMICALS IN METAL BUILDING

2-17

DOE #	CHEMICAL	QUANTITY
1 *5432-02	AMMONIA SOL. STRONG reacts with oxidizer	60 - 48 LB GL JAR
-5432-03	AMMONIUM BIFLUORIDE reacts w/acid = toxic	2
-5432-04	CALCIUM FLUORIDE reacts w/acids = toxic	1 - 25 LB JAR
-5432-06	CHEL DTPA 41 (SODIUM SALT)	1 - 55 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 - 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	1 - FIB DRM (250 LB)
-5432-14	STRONTIUM CARBONATE 99.7% reacts w/oxidizer	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 JAR

*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 or 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 OPERATIONS	Address	BLDG. 1167, 1100 AREA
Destination	RICHLAND, WA 99352	Origin	EXCESS PROPERTY ACTIVITY
Phone	373-3679	Phone	376-6706

No Shipping Units	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Haz Mat. ID No	EPA Haz Waste No	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. 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 _____
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 5-16-83

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 _____

0000067

T/S/D F COPY

HAZARDOUS WASTE

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

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

4-1-83

VI. 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

0000068

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

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

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	376-6796

No Shipping Units	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Haz Mat. ID No	EPA Haz 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
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 _____

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 _____
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 5-05-93

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 _____

0000070

T/S/D F COPY

HAZARDOUS WASTE 9 1 1 2 1 1 1 9

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

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

No Shipping Units	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Haz Mat. ID No	EPA Haz 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 _____

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 _____
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 5-25-83

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 COPY 0000071

HAZARDOUS WASTE

HAZARDOUS WASTE

Rockwell

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

2-27

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

A. Generator's Name: D.D. ROUNTRY Phone: 3 2108 Address: 202-S/200W Company: ROCKWELL

B. Custodian's Name: E.P. THOMPSON Phone: 3 2394 Address: 2719 WA/200W 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. 2,4-D AMINE	3	55 GALLON METAL	3				*
2. 2,4-D AMINE	12	5.0 GALLON METAL	12				*
3. MISCELLANEOUS	2	DOUBLE-WRAPPED IN PLASTIC BAGS	2				
4. HERBICIDE CONTAMINATED							
5. RAGS, RESPIRATOR CARTRIDGES, ETC.							

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? YES If so, how? *TRIPLE-RINSED CONTAINERS

G. Storage Location: 275-EA WAREHOUSE

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: D D Rountry Date: 4-5-83

II. APPROVAL

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

Date: April 5, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): None

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

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

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: H J Murphy Phone: 6654 Address: 1171 Company: PHS

B. Date Transported/Disposed: 11-12-83

C. Transporter(s) Signature: H J Murphy

0000072

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

9112139131

Rockwell

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

2-21

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

A. Generator's Name: D.D. ROUNTRY Phone: 3 2108 Address: 202-S/200W Company: ROCKWELL

B. Custodian's Name: E.P. THOMPSON Phone: 3 2394 Address: 2719 WA/200W 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. FENAMINE	44	2.5 GALLON PLASTIC	44				*
2. BANVEL	12	2.5 GALLON PLASTIC	12				*
3. R-11	2	1.0 GALLON PLASTIC	2				*
4. R-11	12	5.0 GALLON PLASTIC	12				*
5. FENAMINE	10	5.0 GALLON PLASTIC	10				*

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? YES If so, how? * TRIPLE-RINSED CONTAINERS

G. Storage Location: 275-EA WAREHOUSE

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: D.D. Rountry Date: 4-5-83

II. APPROVAL

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

Date: April 5, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): None

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

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

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: H 2-Fraley Phone: 6664 Address: 1171 Company: P.H.O.

B. Date Transported/Disposed: 4/12/83

C. Transporter(s) Signature: H 2-Fraley 6664-1171

0000073 BC-6700-174.1 (N-1-82)

2-29

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: M.C. THOMPSON Phone: 376-1073 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. MURIATIC ACID	5 GAL	PLASTIC	1		X		
2. HYDRAFLURORIC ACID	1 GAL	PLASTIC	1		X		
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: 1169 BUILDING (ACID STORAGE WAREHOUSE)

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.C. Thompson M.C. THOMPSON Date: 4-4-83

II. APPROVAL

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

Date: April 5, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): Pack in absorbent

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

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

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: J. J. Mafey Phone: 6665 Address: 1171 Bl. Company P.H.O.

B. Date Transported/Disposed: 5-4-83

C. Transporter(s) Signature: J. J. Mafey C. E. Fisher Chemical Trench

0000074

9112121391373

BC-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

ONSITE 4097-1

TO: HANFORD CENTRAL LANDFILL T/S/D FACILITY	FROM: ROCKWELL MATERIAL Generator
E.P.A. ID Code No. WA-789-000-8967	E.P.A. ID Code No. WA-789-000-8967
Address	Address 1166 BUILDING/1100 AREA
Destination CHEMICAL TRENCH	Origin RICHLAND
Phone N/A	Phone 376-7110

No Shipping Units	DOT PROPER SHIPPING NAME	HAZARD CLASS	Haz Mat ID No	EPA Haz Waste No	WEIGHT	LABELS REQUIRED (or Exemption No.)
1	ACID HYDROCHLOR TECH (PLASTIC)	CORROSIVE MATL	UN1789	5GAL/	6 GAL/ 10 LBS	CORROSIVE
1	ACID HYDROFLU TECH (PLASTIC)	CORROSIVE MATL	UN1790		1 GAL/ 10 LBS	CORROSIVE

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 _____

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 [XX] 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 N/A	CONTACT Name GARY R. COX
E.P.A. ID Code No.	Phone 373-3679
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 N.C. THOMPSON Date 4-7-83

TRANSPORTER #1 _____ E.P.A. ID No. WA-789-000-8967

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 0000075

HAZARDOUS WASTE

9112121373 4

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	Phonylmercury 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

2-3

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			CORSTIC

D. Have appropriate labels been affixed to containers? _____ Not required _____ Lab packs will be label 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: AKY-275E Co.: RHO

Date: 6-10-83 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: _____

1000079

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

9112139.8

PNL-83-008

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
6Sodium sulfate, Anhy.	1#	glass	1	X			– 2-35
7Oxalic Acid	1/4#	glass	1	X			–
8Ferric Oxide	1/2#	glass	1	X			–
9Ammonium Sulfate	1#	"	1.	x			–
10Chlorooatinic acid	1# 7gm	"	1	x			–
11Thorium chloride	1/4#	"	1	x			–
12Barium nitrate	1#	"	1	x			oxidizer
~~13Bismuth metal~~	~~[illegible]~~	"	1	x			
14Calcium nitrate	1#	"	1	x			oxidizer
15Barium chloride	1#	"	1	x			oxidizer
16Calcium oxide	1/4#	"	1	x			caustic
17Strontium chloride	1/4#	"	1	x			oxidizer
18Strontium sulfate	1/4#	"	1	x			–
19Aluminum octoate	1/4#	"	1	x			–
20Boric acid	1#	"	1	x			–
21Sodium siliofluoride	1#	"	1	x			–
22Sodium tungstate	1 oz	"	1	x			–
23Potassium periodate	4 oz	"	1	x			oxidizer
24Nickle sulfate [redacted] (EHW)	1/4#	"	1	x			EHW ORME
25Iodine, resublimed	3#4#	"	3	x			–
~~26Silver metal powder~~	~~[illegible]~~	"	1	x			
27Sodium phosphate, tribase	1#	"	1	x			ORME
28Bismuth nitrate	1#	"	1	x			–
29Titanous sulfate	250gm	"	1	x			–
30Barium chloride	1#	"	1	x			oxidizer
~~31Cupric oxide~~	~~[illegible]~~	"	1	x			
~~32Calcium metal, sticks~~	~~1/4#~~	"	1	x			
33Calcium oxide	1#	"	1	x			caustic
34Calcium chloride	1/4#	"	1	x			

0000050

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

9112130119

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
~~6 Aluminum metal pellets~~	~~23~~	glass	1	x			
7 Lead nitrate (EHW)	1#	"	1	x			EHW - 35 oxidizer
~~8 Aluminum metal turnings~~	~~[illegible]~~	"	;1	x			
9 Sodium stannate	1#	"	1	x			—
10 Ammonium chloride	1#	"	1	x			ORME
~~11 Activated Alumina~~	~~[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 actate (EHW)	20gm	"	2	x			EHW
17 Quinhydrone toxic O.K.	1#	"	1	x			—
18 N,N-Diphenyl formamide toxic, reacts 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			— } reducers
22 Sucrose OK	1/2#	"	1	x			— } reducers
23 Starch OK	1/4#	"	1	x			— } reducers
24 lead acetate (EHW)	1/4#	"	1	x			EHW ORME
25 Anthracene-9-carboxylic acid	1/4# O.K.	"	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 ORME
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.							0000081

9112101370

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~~	~~[illegible]~~	"	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

9112139137 1

0000082

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

6-10-83

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	Haz Cl.	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	Phenylmercury 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
B29	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.

0000083

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 (calc)
A 28 Bismuth nitrate
C 16 Magnesium sulfate, Anhy.
A 29 Titanous sulfate
A 19 Aluminum Octate
A 27 Sodium phosphate, Tribase
~~C 20 Potassium sulfate~~
C 29 Cupric sulfate
C 32 Sodium iodate
B 9 Sodium stanate
C 14 Sodium borate, Tetra
C 5 Ferrous sulfate

4 Potassium chloride
A 15 Barium chloride
A 17 Strontium chloride
C 18 Potassium iodide
C 24 Sodium borate
C 26 Ammonium oxalate
C 29 Ferric Sulfate
C 30 Sodium sulfate
C 31 Sodium Thiosulfate

Acids.

B 15 1-Naphtoic acid
B 13 Sulfamic acid (nos.)
A 7 Oxalic Acid
A 10 Chloropentanic acid
A 20 Boric Acid
C 34 Iodic Acid
B 25 Anthracene-9-carboxylic acid

Base

5 Calcium hydroxide (calc)
C 11 Potassium hydroxide (corr.)

OK

0000084

Solids

2-35

On-Site

Organic

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

Solids

2-35

On-Site

Reducers + Non Reactives

B 14 Dinoylphthalate
2 Sodium Thiosulfate
3 Sodium Silicate
C8 Molybdic anhydride
C10 Potassium ferrocyanide
C21 Stannous chloride

BEST AVAILABLE COPY

?

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

0000086

Oxidizer

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 (caustic)
A28 Bismuth nitrate
C11 Magnesium sulfate, Anhy.
A29 Titanous sulfate
A19 Aluminum Octate
A27 Sodium phosphate, Tribase ← OK
~~C20 Potassium sulfate~~
C29 Cupric sulfate
C32 Sodium iodate
39 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 oxdate
C29 Ferric Sulfate
C30 Sodium sulfate
C31 Sodium Triosulfate

Acids.

B15 1-Naphtoic acid
B13 Sulfamic acid crys.
A7 Oxalic Acid
A10 Chloropantinic acid
A20 Boric Acid
C34 Iodic Acid
B25 Anthraquinone-9-Carboxylic acid

Base

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

0000087

Solids

2-35

On-Site

Organic

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

9112180137 7

Solids

2-35

On-Site

Reducers + Non Reactives:

B 14 Dinoctylphthalate
2 Sodium Thiosulfate
3 Sodium Silicate
C5 Molybdic anhydrate
C10 Potassium ferrocyanide
C27 Stannous chloride

?

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

BEST AVAILABLE COPY

0000089

6-10-83

Disposal Request (2-35) PNL-83-008
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	Haz Cl	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
B28	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.

0000090

HAZARDOUS WASTE MANIFEST

THIS MEMORANDUM

is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, but is a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

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 Harlan Boynto 373-3516	Phone Jeene Hobbs 376-1631

No Shipping Units	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Haz Mat. ID No	EPA Haz Waste No	WEIGHT	LABELS REQUIRED (or Exemption No.)
1	Hazardous waste solid, n.o.s.	ORM-E	NA9189		3004	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 _____

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 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 _____

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 _____

0000091

T/S/D E COPY

1/1

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

2-37

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

A. Generator's Name: J.A. McIntyre Phone: 6-6131 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
1 Dioctyl Sebacate contract w/ oxidizer	46 lbs.	Tin	2	x			
2.							
3.							
4.							
5.							

describing material

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

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

F. Has waste been treated in any manner? yes If so, how? liquid made solid by vermiculite

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: Julie A. McIntyre Date: 4/13/83

II. **APPROVAL**

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

Date: May 10, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): Absorb liquid

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

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

III. **TRANSPORTATION/DISPOSAL**

Transporter(s) Name: L. A. Davis Phone: 6-6654 Address: 1671 Company RHO

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

C. Transporter(s) Signature: Lance A. Davis

Chemical Trench 6-6-83 D.E. Fisher

000009

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

9112130131

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

3-1

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

A. Generator's Name: N. W. Hoebel Phone: 3-2883 Address: 2101M/200 E. Company: Rockwell

B. Custodian's Name: V. L. Blanchard Phone: 3-2172 Address: 2101M/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. Petroleum Distillates	8835 gr	aerosol can	31		X		Flammable
2. Ethyl Acetate	1500cc.	aerosol can	5		X		"
3. Petro. Solvent & alcohol	16.5 Oz	aerosol can	2		X		"
4. Met L Check Remover E-59	12oz	aerosol can	2		X		"
5. Petro. Distill. & Diethyl ether	3 oz.	aerosol can	1		X		"

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: 2701 M/200 East

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: Nancy W. Hoebel Date: May 10, 1983

II. APPROVAL

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

Date: May 11, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): Pack together for shipment to Central Landfill

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

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

III. TRANSPORTATION/DISPOSAL

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

Date Transported/Disposed: 5/83 : shipped (Per NW Hoebel conversation 6/26/85.)

C. Transporter(s) Signature: _____

0000093

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

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

3-3

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

A. Generator's Name: C.A. Meldrom Phone: 32576 Address: 2345 /200W 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. Battery Lead Acid bel	100	55 Gal Drum	1				
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? Yes

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

G. Storage 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: ZZ830695

Generator's Signature: C.A. Meldrom Date: 5/11/83

THREE LAPS OF ?

II. APPROVAL

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

Date: May 12, 1983 Signature: Harry R. Cox

B. Packaging Requirements (specify): Pack in 55 gallon drum with venting

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: _____

0000094

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

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

PNL - 83 - 007

3-5

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: 3762/300Area Company: PNL

B. Custodian's Name: Janet Russel Phone: 5-2545 Address: PSL/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 Mixture: 50% acetone	7 gal	glass	5		X		Flammable (DW)
2 10% THF, 15% methylene chloride,							
3 25% methanol.							
4.							
5.							

D. Have appropriate labels been affixed to containers? _____ Not required _____ Drums 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: 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 Hobbs Jeene M Hobbs Date: 20 April 1983

II. **APPROVAL**

A. Approved for disposal by Name: G.R. Cox Phone: 3-3679 Address: 2025/200-W Co.: Rockwell

Date: May 12, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): Pack in 55 gallon drums with sufficient adsorbent to contain if glass breaks.

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

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

III. **TRANSPORTATION/DISPOSAL**

9-8-83?

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

B. Date Transported/Disposed: _____

C. Transporter(s) Signature: _____

0000095

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

9112191374

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-2/3000Area 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. 25:25:25:25 methanol, water, benzene, hexane	5 gal mix	glass	5		X		flammable liq (EHW)
2.							
3. tetrahydrofuran	12gal	glass	12		X		flammable liq
4. ethyl ether	1 gal	glass	1		X		flammable liq
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: *G.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 Land fill.

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

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

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: L.G. Davis Phone: 66654 Address: 1171 Company RHO

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

C. Transporter(s) Signature: *Lance L Davis*

0000096

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

9112183175

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) O.K.
8. Bromine	2 qt	glass in metal	2		X		Corrosive O.K
# 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 O.K.
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.							0000097

9112121316

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 labe 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-W 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: _____

0000098

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

9112191337

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	EMW
11. 0.0141 N	192 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.								0000099

9112131318

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

3-13

A. Generator's Name: H. P. Simonds Phone: 3-2781 Address: 271-B/200E Company: Rockwell

B. Custodian's Name: H. P. Simonds Phone: 3-2781 Address: 271-B/200E 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. Sodium Bisulphate	MT	Cardboard Drums	35	✓			ORM-B
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? Yes

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

G. Storage Location: 271-B Storage dock

H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has

54-3000-101 (9-59)

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

DATE May 31, 1983

TO Dave Briggs FROM Gary R. Cox

As per our discussion today the following should be included in your chemical handling procedure to adequately address the disposal of containers:

"Upon emptying the containers of Sodium Bisulfate into the process, determine the integrity of the plastic liners found inside the fiberboard drum. If no evidence of leakage is found, the fiberboard drums may be disposed of as regular trash (i.e. to trash dumpster). Dispose of all plastic liners as chemical waste in empty fiberboard drum (eg. those which have been determined to be leakers) and make arrangements for transport to the Central Landfill Chemical Trench when a sufficient number have accumulated.

Thank you for your attention to this matter and feel free to contact me if you have further questions.

84-8000-101 (9-59)

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

DATE 5-18-83

TO Gary

FROM N. P. Simonds

We will generate about 20-30 empty drums every two to three weeks.

Dutch,

I spoke with Tom Hendrix about a problem from Purex similiar to this. Let's handle this the same way, eg. Keep this Disposal Request open and as long as it is the same material for disposal, just keep a running tally on additional sheets. I will have H.P. Simonds contact transportation when he has a number of drums ready for shipment.

Call me if you have any problems with this.

"TO MAKE LIFE LAST, PUT SAFETY FIRST"

Gary

9112130 0

000101

✓

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

PNL-83-012

3-21

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

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

B. Custodian's Name: Bill Rossitor Phone: 6-5946 Address: 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. Empty Drums(Previous contents will be listed)							
2. FeOH	46	55 gal steel					
3. Caustic soda beads	2	55 gal steel no lids					
4. Cerium nitrate	3	30 gal steel					
5. Neodyium nitrate	1	55 gal fiberboard					

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

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

F. Has waste been treated in any manner? NA If so, h[illegible]

G. Storage Location: 324/300 Area (Contact [illegible]itor for pickup and disposal)

H. "I hereby certify that this material has been released by Radi[illegible] (if applic[illegible]) and that Part One of this form has been completed to the best of my knowledge." Survey Card [illegible]

Generator's Signature: Jeene Hobbs Jeene M Hobbs Date: 20 May 83

II. APPROVAL

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

Date: June 2, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): Empty Drums - verify

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

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

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: J.H. Armstrong Phone: 66654 Address: 1171 Company RHO

B. Date Transported/Disposed: 8-11-83 Chemical Trench

C. Transporter(s) Signature: [illegible]

0000102

8C-6700-174.1 (N-1-8[illegible]

9112183311

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Liq.	Gas	Hazard Class
6. Empty Drums Cont							
7. Alumium hydroxide	1	55 gal fiberboard					3-21
8. Ferric phosphate	11	55 gal fiberboard					
9. Zirconium nitrate	1	55 gal fiberboard					
10. Lithium hydroxide	1	55 gal fiberboard					
11.							
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							
21.							
22.							
23.							
24.							
25.							
26.							
27.							
28.							
29.							
30.							
31.							
32.							
33.							
34.							

9112181322

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

PNL-83-013

3-23

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 Company: PNL

B. Custodian's Name: Kris Mc Fadden Phone: Address: RTL Company: PNL

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

A detailed chemical breakdown is attached.

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

D. Have appropriate labels been affixed to containers? no Not required

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

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

G. Storage Location: 332/300

"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 25 May 83

Jeene Hobbs

II. APPROVAL

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

Date: June 2, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): packed in 55 gallon drums with absorbant sufficient to contain liquids if broken

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

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

III. TRANSPORTATION/DISPOSAL

9-8-83?

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

Date Transported/Disposed:

C. Transporter(s) Signature:

0000104

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

9112180373

To: Gene Hobbs

From: Kim McFadden
RTL/243 375-6861

Re: Retort water composition (approx)

Although retort waters vary with method of retorting, source, temperature of retort, etc., a reasonable indication of expected components should be given by Paraho Retort water, 77 & 78 batches. Therefore, I am listing some aprox. concentrations below:

organic carbon 30,000 - 40,000 ppm C
inorg. carbon ~ 1000 - 3,000 "
NH_4^+ ~ 36,000 ppm (as NH_4^+)

Anions: $SO_4^=$ ~ 23,000 ppm
$S_2O_3^=$ ~ 46,000 ppm
$SO_3^=$ ~ up to ~ 2000 ppm
NO_3 ≤ 400 ppm

Elements: (ppm)

As	- 7	Co	0.25
B	- 45	Cr	0.1
Ba	- 0.2	K	- up to 70
Ca	- 35.		
Cd	- 0.4		
Cu	- 2 to 24		
Fe	- 1		
Li	- 4		
Mg	1000		
Mn	- 0.1		
Mo	- 0.5		
Na	- 5-20		
Si	- 20		
Sr	- 1.5		
Zn	- 3.5		

As I noted above, these values can be used as indicators of expected levels, rather than as absolute values.

Let me know if you need more info, or have some questions.

RECEIVED
MAY 24 1983
INDUSTRIAL SAFETY

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

3-25

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

A. Generator's Name: Mike Malaechy Phone 66654 Address: 1171 Bldg Company: Rockwell

B. Custodian's Name: Mike Malaech Phone 66654 Address: 1171 Bldg 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. Assault	8	Can	8	Empty	-		Non Hazardous
2. Assault	55gal	Drum	2	Empty			" "
3. Poly mate	55gal	Drum	2	Empty	-		" "
4.							
5.							

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

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

F. Has waste been treated in any manner? NA If so, how? _____

Storage Location: Y Bldg.

"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: Mike Malaechy Date: 5/16/83

II. APPROVAL

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

Date: May 12, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): Empty herbicide containers

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: _____

5-24-83 DEP Shelper Chemical Trench

0000106 BC-6700-174.1 (N-1-82)

PNL-83-016

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

3-31

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 Company: pnl PNL

B. Custodian's Name: Bill Rossitor Phone: 6-5946 Address: 324/300 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. FeOH	735 gal	fiberboard plastic	13	X			
2. floor sweepings	230 gal	metal	6	X			
3. (contains $CaCO_3$, silica, LiOH) in 2 - 55 gal drums & 4 - 30 gal drums							
4. 75# cupric nitrate	75#	metal	2	X			oxidizer
5. (metal cans packed in double plastic bags in a 30 gal drum)							

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: 324/300 Area and JAJones warehouse/3000 area
Contact Bill Rossitor for exact location before picking up for disposal.

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: 26 May 83

II. **APPROVAL**

A. Approved for disposal by Name: G.R.Cox Phone: 3-3679 Address: 202-S/200-W Co.: Rockwell
Date: June 6, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): As noted above is acceptable

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

III. **TRANSPORTATION/DISPOSAL**

A. Transporter(s) Name: Thompson Phone: 66654 Address: 2171 Company RHO

B. Date Transported/Disposed: D E Phelps 7-27-83

C. Transporter(s) Signature: [illegible]

0000107

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

9112130376

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.

This document corresponds to disposal request numbered PNL-83-016.

MANIFEST DOCUMENT NUMBER

PNL-H-83-030 3-31

TO:	FROM:
T/S/D FACILITY Rockwell Hanford Operations	Generator Battelle PNL
E.P.A. ID Code No. WA7-89-~~[illegible]~~ 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 324/300 Area & JAJones Warehouse/3000 Are
Phone Gary Cox 37373679	Phone Jeene Hobbs 376-1631

No Shipping Units	D.O.T PROPER SHIPPING NAME	HAZARD CLASS	Haz Mat ID No	EPA Haz Waste No	WEIGHT	LABELS REQUIRED (or Exemption No.)
1	Waste cupric nitrate	oxidizer	NA1479		110#	oxidizer controlled
8 9	Floor Sweepings ($CaCO_3$, LiOH, silica)	none	none	none	2370	none
2 17	Waste Ferric Hydroxide	none	none	none		none

BEST AVAILABLE COPY

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 _____

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 Battelle Industrial Safety
Phone JM Hobbs 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 9 June 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 0000108

HAZARDOUS WASTE

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

3-33

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

A. Generator's Name: PUREX Oper. Phone: 3-2833 Address: 202-A/200E Company: Rockwell Hanford

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

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. FERROUS SULFAMATE	125 lb	FIBER DRUM	17	✓			—
2. HYDRAZINE	EMPTY	30 GAL Metal DRUM	3	✓			
3. HYDOXYLAMINE Nitrate	MT	55-GAL METAL DRUMS	12	✓			
4. PAINTERS WASTE		55-GAL METAL DRUMS	3	✓			
5. RAGS, THINNER ETC	325 LB						

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: 202-A, PUREX, 200-EAST, DOCK #3

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: NA

Generator's Signature: R.A. Polk Date: 5/23/83

II. APPROVAL

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

Date: June 6, 1983 Signature: Henry R. Cox

B. Packaging Requirements (specify): Acceptable as listed

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

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

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: J.W. Carr Phone: 66654 Address: 1171 Company RHO

B. Date Transported/Disposed:

C. Transporter(s) Signature: John W. Carr

0000109

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

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

3-39

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)

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 GRC by Tolman 11-1-83
D. R. Groth
D. L. McCall
A. D. Poor

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.

0000115

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	AmmoniumHydrogen-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.

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.

000316

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.

0000117

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.

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.

000119

0000120

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. 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 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

000122

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.

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

PNL-83-017

(3-41)

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: Mike Brown Phone: 5-2067 5-3791 Address: CEL/3000 Area 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. Bagasse	3 or 4 tons in 20 bales &			X			
2.		2 bags					
3.							
4.							
5.							

The USDA representative must be present when this is buried. It must be covered with at least 3 feet of soil. Contact ~~Jeene~~ Mike Brown before scheduling disposal. This waste can go in the Central Landfill. A dump truck with a cover will be needed to haul the waste to the landfill.

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? _____

G. Storage Location CEL/ 3000 Area outside

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: 7 June 83

II. APPROVAL

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

Date: June 8, 1983 Signature: *Gary R. Cox*

B. Packaging Requirements (specify): As Noted above

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

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

III. TRANSPORTATION/DISPOSAL

Transporter(s) Name: TW Tobey Phone: 376-6654 Address: 1171 Bldg Company Rockwell

Date Transported/Disposed: 7-25 83

C. Transporter(s) Signature: *DE Phelps*

0000125

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

United States Department of Agriculture

Animal and Plant Health Inspection Service

Federal Bldg.
Hyattsville, MD
20782

3-41

June 3, 1983

Mike Brown
Battelle Northwest
6th Street Warehouse
Richland, WA 99352

Dear Mr. Brown:

This letter will serve as authorization for burial of the sugarcane bagasse which you imported under permit # 15-380. The sugarcane bagasse is to be buried at the Hanford Nuclear Reservation under three feet of earth and in accordance with all applicable Federal, State, and Local regulations.

The movement of the bagasse may be supervised by Terry Ely, Plant Protection and Quarantine Officer.

Sincerely,

M. JoAnne Spires

M. JoAnne Spires
Supervisory Program Assistant
Permit Unit
National Program Planning Staff
Plant Protection and Quarantine

Gary - Please attached to bagasse disposal request - Thanks -

Jeene

Dennis Poor, Please attach with D.R.

RECEIVED
JUN 7 1983
INDUSTRIAL SAFETY

0000126

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

3-43

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

A. Generator's Name: D.D. ROUNTRY Phone: 3 2108 Address: 202 S/200W Company: ROCKWELL

B. Custodian's Name: E P THOMPSON Phone: 3 2394 Address: 2719WA 200W 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. 2,4-D AMINE	50	5.0 GALLON METAL	50				*
2. 2,4-D AMINE	3	55 GALLON METAL	3				*
3. BANVEL	29	2.5 GALLON PLASTIC	29				*
4. R-11	5	5.0 GALLON PLASTIC	5				*
5. MISCELLANEOUS PAPER, RAGS, ETC	1	55 GALLON METAL	1				⊗

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? YES If so, how? * TRIPLE-RINSED CONTAINERS ⊗ WASTE PACKAGED IN PLASTIC and CONTAINED IN METAL DRUM

G. Storage Location: 275-EA WAREHOUSE

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: DD Rountry Date: 6-10-83

II. **APPROVAL**

A. Approved for disposal by Name: G.R. Cox Phone: 3-3679 Address 202-S/200 W No.: Rockwell

Date: June 9, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): All empty containers ~~except~~ #5

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

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

III. **TRANSPORTATION/DISPOSAL**

Transporter(s) Name: SS Webb Phone: 373-2351 Address: 2707 W Company RHO

Date Transported/Disposed: June 27, 1983

C. Transporter(s) Signature: Steven Scott Webb

D E Phelps Chemical Trench

00001

EC4700-174.1 (N-1-82)

9112191416

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

4-3

A. Generator's Name: W. R. Hayes Phone: 3-1501 Address: 609/600 Company: RHO

B. Custodian's Name: D. E. Good Phone: 3-1311 Address: 609/600 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. Empty oil drums		metal	~~89~~	EMPTY			
2.			51				
3. **Vehicle waste oil used for firefighting training.							
4.							
5.							

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

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

F. Has waste been treated in any manner? NA If so, how? _____

G. Storage Location: 609/600 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: NA

Generator's Signature: W. R. Hayes Date: 6-15-83

II. APPROVAL

A. Approved for disposal by Name: G.R. Cox Phone: 3-3677 Address 2025/200W Co.: Rockwell

Date: June 16, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): Empty Containers

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

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

III. TRANSPORTATION/DISPOSAL

Transporter(s) Name: Lance A. Davis Phone: 376-5654 Address: 1121 Company PHO

Date Transported/Disposed: 10-17-83 D E Phelps

C. Transporter(s) Signature: Lance A. Davis

0000125

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

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

4-7 ff

4-5

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

A. Generator's Name: J. M. Peterson Phone: 376-6731 Address: Rm. 107, Fed. Bldg. Company: DOE-RL

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

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. Sulfuric Acid	24 oz.	Bottles	3		X		Corosive
2. Potassium Hydroxide Solution	8 oz.	Bottle	1		X		Corrosive
3. Sulfate Solution	8 oz.	Bottle	1		X		Corrosive
4.							
5.							

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

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

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

G. Storage Location: Room 107, Federal 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: N/A

Generator's Signature: Jma M. Peterson Date: 6/15/83

II. APPROVAL

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

Date: June 16, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): Pack in orginal containers

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

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

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: H. J. Maley Phone: 6654 Address: 1171 Company RHO

B. Date Transported/Disposed: 6-22-83

C. Transporter(s) Signature: H. J. Maley 6-22-83

DE Pfefer Chemical Trench

0000129

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

9112171118

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

#5
4-7

TO:		FROM:	
T/S/D FACILITY	Central Land Fill	Generator	DOE-RL
E.P.A. ID Code No.		E.P.A. ID Code No.	WA7890003767
Address	Rockwell Hanford Operations	Address	Federal Bldg.
Destination	Central Land Fill	Origin	Richland, WA
Phone	373-3679	Phone	376-6731

No. Shipping Units	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Haz. Mat. I.D. No.	EPA Haz. Waste No.	WEIGHT	LABELS REQUIRED (or Exemption No.)
3	Sulfuric Acid	Corrosive	UN1830	--	24 oz.	Corrosive
1	Potassium Hydroxide Solution	Corrosive	UN1814	--	8 oz.	Corrosive
1	Sodium Hydrogen Sulfate Solution	Corrosive	UN2337	--	3 oz.	Corrosive

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 Patrol Emergency
Phone 311
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 _____

COPY

0000130

HAZARDOUS WASTE 6 1 2 1 8 6 1 4 1 9

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

II. **APPROVAL**

A. Approved for disposal by Name: R C Baxter Phone: 3-3516 Address 275 E Co.: RHO

Date: 9-20-83 Signature: R C Baxter

B. Packaging Requirements (specify): Re Sent To Internal Letter Sep 21, 1983 RC Baxter To R.E. 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: _____

0000131

BC-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 4-9

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 789-000-8067
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	Haz Mat. ID No	EPA Haz Waste No	WEIGHT	LABELS REQUIRED (or Exemption No.)
~~7~~	~~ACETONE~~	~~FLAMMABLE LIQUID~~	~~UN-1090~~	~~U-002~~	~~7 lbs~~	~~FLAMMABLE LIQUID~~
31	BUTYL ALCOHOL	FLAMMABLE LIQUID	NA-1120	U-031	31 lbs	FLAMMABLE LIQUID
2 ~~23~~	ALCOHOL, NOS (GLYCERINE)	COMBUSTIBLE LIQUID	UN-1987	NONE	23 lbs	NONE
1 ~~4~~	SODIUM PHOSPHATE	ORM-E	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 _____

Subject to Section 7 of the conditions of 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 _____
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 11-2-85

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 0000132

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	Haz Mat. ID No	EPA Haz Waste No	WEIGHT	LABELS REQUIRED (or Exemption No.)
100	HYDROFLUORIC ACID	CORROSIVE	UN-1790	U-134	100 lbs	CORROSIVE
3/28	CORROSIVE SOLID,NOS (SULFAMIC ACID)	CORROSIVE	UN-1759	NONE	5 lbs	CORROSIVE
6/29	CORROSIVE SOLID, NOS (TRICHLOROACETATE)	CORROSIVE	UN-1759	NONE	30 lbs	CORROSIVE
1/3	CORROSIVE SOLID, NOS LITHIUM HYDROXIDE	CORROSIVE	UN-1759	D-002	5 lbs	CORROSIVE
2/18	SODIUM HYDROXIDE	CORROSIVE	UN-1223	D-002	20 lbs	CORROSIVE
1/1	AMMONIUM CHLORIDE	ORM-E	NA-9035	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 _____

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 _____
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 _____

ATMENT/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 0000133

HAZARDOUS WASTE

HAZARDOUS WASTE

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: T/S/D FACILITY	FROM: Generator RAY CALLAWAY/C.D. HANSEN
E.P.A. ID Code No. WA 789-0008967	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	Haz Mat. ID No	EPA Haz Waste No	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 _____

Subject to Section 7 of 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 _____
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 _____

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 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 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	Haz Mat. ID 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
3	SODIUM CHLORIDE	NONE	NONE	NONE	125 lbs	NONE
3	SODIUM SILICA	NONE	NONE	NONE	30 lbs	NONE
1	CALCIUM CARBONATE	NONE	NONE	NONE	30 lbs	NONE
1	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 _____

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 _____
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 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

3273-1

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	Haz Mat ID No	EPA Haz Waste No.	WEIGHT	LABELS REQUIRED (or Exemption No.)
1	ALUMINUM NITRATE	OXIDIZER	UN-1438	D-003	11 lbs	OXIDIZER
1	CUPRIC NITRATE	OXIDIZER	NA-1479	D-003	4 lbs	OXIDIZER
1	MAGNESIUM NITRATE	OXIDIZER	UN-1474	D-003	13 lbs	OXIDIZER
1	ALUMINUM OXIDE	ORM-A	NA-1693	NONE	3 lbs	NONE
1	AMMONIUM CARBONATE	ORM-A	NA-9084	NONE	21 lbs	NONE
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 _____

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 Consignee)

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 11-20-78

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 0000136

HAZARDOUS WASTE

9 1 1 2 1 8 2 1 4 5

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	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	Haz Mat. ID No	EPA Haz 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	Magnesium Oxide	[illegible]	NA1916	D-293	11 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 _____

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 _____
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 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

HCB/cls

Attachments

cc w/out attachments: J. F. Albaugh
G. R. Cox
D. R. Groth
D. L. McCall
A. D. Poor

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
1. SEE ATTACHED LIST							
2.							

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: RE Callaway Date: 6/8/83

APPROVAL

A. Approved for disposal by Name: R.C. Sayler Phone: 3-3516 Address 275SE Co.: RHO

Date: 9-20-83 Signature: Nathan C Sayler

B. Packaging Requirements (specify): Ref See To TJ Terrell Letter Sept. 1983 RC Brooks 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:

0000139

3C-6700-174.1 (N-1-82)

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

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

000014

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

0000142

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

0000143

4-9

200/W 202S

54-3000-101 (9-69)

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 Disposing

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] 2/26/02 A-9
Cox

	7	ea	51-0050-030	Acetone (Chemwest) O.K. UN1090	1.69	GL.	1 Pt	FLAMMABLE LIC
2 100	98	ea	51-0100-260	Hydrofluoric acid (Chemwest) O.K. UN 1790	3.15	[redacted] PL.	[redacted] 1LB.	CORROSIVE
3	25	ea	51-0100-620	Sulfamic acid (chemwest) O.K. [redacted] NA1759 CORROSIVE SOLID N.O.S.	4.47	PL.	100 GR.	CORROSIVE
4	79	ea	51-0100-730	Trichloroacetate (Argent) O.K. CORROSIVE SOLIDS NOS UN1759	8.87	PL.	1LB.	CORROSIVE
5	31	ea	51-0225-300	Butyl alchohol (Chemwest) O.K. NA1120	3.08	GL.	1LB.	FLAMMABLE LIC
6	11	ea	51-0330-580	Aluminum nitrate (Chemwest) O.K. UN 1438	4.17	PL.	1LB.	OXIDIZER
7 8	10	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. NA 9085	4.57	GL.	1LB.	ORM-E
10 -0-	10	ea	51-0525-350	Barium Nitrate (Chemwest) O.K. * UN 1446	4.15	[redacted].	[redacted].	OXIDIZER
11 5	6	ea	51-0525-350	Barium Nitrate (Argent) O.K. * UN 1446	4.15	GL.	1LB.	OXIDIZER
12	23	ea	51-1050-150	Calcium carbonate (Chemwest) O.K.	1.98	PL.	1LB.	NON-HAZARDOUS
13	12	ea	51-1325-150	Chromium Nitrate (Chemwest) O.K. ** NITRATE NOS NA1477	10.40	PL.	1LB.	OXIDIZER
	16	ea	51-1450-275	Cupric Nitrate (Argent) O.K. NA 1479	4.54	GL.	¼LB.	OXIDIZER
15	3	ea	51-1575-375	Dextrose Anydrous (Chemwest) O.K.	2.09	PL.	1LB.	NON-HAZARDOUS
16	3	ea	51-1615-100	Dimethylaminobenzaldehydroxide (Chemwest) No-offsite EHW	11.19	PL.	100 GR.	ORM-E
~~17~~	~~40~~	~~ea~~	~~51-1900-100~~	~~Ether (Benchmark)~~	~~1.02~~			
17 18	48	ea	51-2325-180	Ferric Oxide (Chemwest) O.K.	2.80	PL.	1LB.	~~ORM-E~~
18 19	27	ea	51-2400-360	Formaldehyde (Chemwest) No-EHW	1.75	PL.	1 Pt.	~~ORM-A~~
19 20	5	ea	51-2400-365	Formaldehyde (Chemwest) No-EHW	2.02	PL.	3 Pt.	~~ORM-A~~
20 21 -0-	10	ea	51-2850-150	Glycerine Water (Chemwest) O.K.	16.58			~~ORM-E~~
21 22	23	ea	51-2850-175	Glycerine (Argent) O.K.	3.48	GL.	1 Pt.	~~ORM-E~~
22 23	1	ea	51-3500-125	Hydroxlamine (Chemwest) O.K.	11.95	PL	1LB	~~ORM-E~~

PL - PLASTIC
GL - GLASS

* Barium concentration must be > 10,000 mg/L
** Chromium concentration must be > 500 mg/L

23	5	ea	51-5025-150	Lithium Hydroxide (Chemwest) O.K. CORROSIVE LIQUID NOS UN1719	7.30	PL.	1LB.	CORROSIVE
25	18	ea	51-5325-150	Magnesium nitrate (Argent) O.K. UN 1474	4.49	PL.	1LB.	OXIDIZER
25 26 11	12	ea	51-5325-160	Magnesium Oxide (Argent) O.K. OXIDIZER NOS UN 1479	15.31	5PL 6GL.	1LB. 1LB.	OXIDIZER
26 27	1	ea	51-7000-225	Potassium Bisulfate (Chemwest) O.K.	11.14	PL	1LB.	~~ORM-E~~
27 28	8	ea	51-7000-525	Potassium Dichloride (Chemwest) O.K.	6.09	PL.	1LB.	~~ORM-E~~
28 29	18	ea	51-7000-750	Potassium Nitrate (Argent) O.K. UN 1486	2.56	PL.	1LB.	OXIDIZER
29 30 79	82	ea	51-7000-770	Potassium Permanganate (Chemwest) O.K. UN 1490	3.88	PL.	1LB.	OXIDIZER
30 31	5	ea	51-7000-780	Potassium Phospate (Chemwest) O.K.	4.95	PL.	1LB.	~~ORM-E~~
31 32	2	ea	51-7000-790	Potassium Phosphate (Argent) O.K.	6.07	GL.	1LB.	~~ORM-E~~
32 33	19	ea	51-7075-125	Pyridine (Argent) No-EHW UN 1282	11.59	GL.	1Pt	FLAMMABLE L
34 3	5	ea	51-8090-180	Silver Nitrate (Chemwest) O.K.* UN 1493	39.29	PL.	4oz.	OXIDIZER
34 35	3	ea	51-8175-100	Sodium acetate (Chemwest) O.K.	5.00	PL.	1LB.	~~ORM-E~~
35 36 9	11	ea	51-8175-115	Sodium Bicarbonate (Chemwest) O.K.	3.14	PL.	1LB.	NON-HAZARDOU
4	32	ea	51-8175-160	Sodium Chloride (Chemwest) O.K.	5.21	PL.	5LB.	NON-HAZARDOU
36	18	ea	51-8175-200	Sodium Hydroxide (Chemwest) O.K. UN 1824	8.01	PL.	5LB.	CORROSIVE
38 39 1	3	ea	51-8175-265	Sodium Nitrite (Chemwest) O.K. UN1498	8.92	PL.	1LB	OXIDIZER
39 40 4	6	ea	51-8175-290	Sodium Phosphate (Argent) O.K. UN 9147	4.41	PL.	1LB.	ORM-E
40 41	30	ea	51-8175-310	Sodium Silica (Chemwest) O.K.	6.72	PL.	1LB.	NON-HAZARDOU
41 42 0	30	ea	51-8175-400	Sodium Thiosulfate (Chemwest) O.K.	3.97			~~ORM-E~~
42 44	9	ea	51-8350-175	Strontium Nitrate (Chemwest) O.K. ~~UN K07~~	5.58	PL.	1LB	OXIDIZER
43 45 4	10	ea	51-9600-150	Xylene (Chemwest) No-EHW UN 1307	5.83	GL	8Pt	FLAMMABLE LI
44 46	9	ea	51-9920-180	Zirconyl nitrate (Argent) O.K. NITRATE NOS UN 1477	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	UN1790	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.	NA 1120	Fl. liq	DW
6.	NA	Aluminum nitrate	11	PL	1 LB	Ox	UN1438	Ox	
7	* NA	~~Haz Subs Nos. Poisonous solid nos.~~ ORMA NO.S. Aluminum oxide	8	PL	1 LB	~~ORM-E NA9189 None~~ ~~Poison B UN2811 Poison~~			ORMA-NA 16
8.	NA	Ammonium Carbonate	21	PL	1 LB	ORM-A	NA 9084	None	
9.	NA	Ammonium Chloride	2	GL	1 LB	ORM-E	NA 9085	None	
11	D005 EHW	Barium Nitrate	5	GL	1 LB	Ox	NA 1446	Ox	
12	NA	Calcium carbonate	23	PL	1 LB	~~Ox NA 1452 Ox~~			Non Haz
13	D007 EHW	Nitrate N.O.S. Chromium Nitrate	12	PL	1 LB	Ox	NA1477	Ox	
	NA	Cupric Nitrate	16	GL	½ LB	Ox	NA 1479	Ox	
15	NA	Dextrose Anhydrous	3	PL	1 LB	— Non-Haz		oxidizer	
16	N/A EHW	~~Haz Subs. U163, ORMA NOS, Poisonous solid nos~~ Dimethylaminobenzaldehyde	3	PL	100 gm.	ORMA ~~ORME~~ ~~Poison B~~	NA 1693 ~~NA 9189~~ ~~UN 2811~~	None ~~None~~ ~~Poison~~	~~U1~~
17	*	Ferric Oxide	48	PL	1 LB	— not Haz			
18	EHW U122	Formaldehyde	27	PL	1 PT	ORM-A	UN 1198	None	U1
19	EHW	"	5	PL	8 PT	"	"	"	U1
20		—	0						
21		Alcohol N.O.S Glycerine	23	GL	1 PT	Combo liq	UN1987	None	32
22	EHW *	~~Hazardous substance N.O.S~~ Hydroxylamine ORMA NO.S	1	PL	1 LB.	~~ORME NA9189 None~~ ORMA	NA 1693	None	—

9

		119	264	245	125	182	~~[illegible]~~	510
	1. 118-119	x						
	2 (244) 264 516 continuous not to exceed 2516 x			Page 511 b				
lidnos	3 (244) 2456			x				
	4 "			x				
	5. 118-125				x			
	6 (153)-182 a					x		
	7 ~~244-365~~ N ~~1300~~ (505) 510						x	
	8 (505) 510							x
	9 N - 510							x
	10 (153) 182					x		
	12							
	13 (153)-182					x		
	14 (153) 182 a					x		
	15							
	16 ~~364-365~~ N ~~1300~~ (505) 510						x	
	17							
22	18 (505) 510							x
22	19 "							x
	21 118 - N							
	22 ~~N-1300~~ (505) 510						x	

			No.	Cont	WT	Haz Cl	ID	Label	other
D002	23.	Lithium Hydroxide	5	PL	1LB.	Corrosive	UN1[illegible]	Corrosive	Corrosive
D003	24.	Magnesium Nitrate	18	PL	1LB	ox	UN1474	ox	
D003	25.	Magnesium Oxide	11	5PL 6GL	1LB 1LB.	ox	UN1476	ox	
NA	26.	Potassium Hydrogen sulfate Potassium Bisulfate	1	PL	1LB	ORMB	UN2509	None	
NA	27	Potassium Dichloride	8	PL	1LB		—		non haz
D002	28.	Potassium Nitrate	13	PL	1LB	ox	UN1486	ox	
173.154 194 D002	29.	Potassium Permanganate	79	PL	1LB	ox	UN1490	ox	173.153 *25lbs
NA	30	Potassium Phosphate	5	PL	1LB				Non Haz
NA	31	Potassium Phosphate	2	GL	1LB				Non Haz
EHW U196	32	Pyridine	19	GL	1PT	Fl liq	UN1282	Fl liq	*1qt
D002	33	Silver Nitrate	3	PL	4oz	ox	UN1493	ox	
NA	34.	Sodium acetate	3	PL	1LB.				Non Haz
	35.	Sodium Bicarbonate	9	PL	1LB.		non Haz		
	36.	Sodium Chloride	24	PL	5LB		non-Haz		
D002	37	Sodium Hydroxide	18	PL	5LB	cor	UN1823	cor	*25lbs
D003	38.	Sodium Nitrite	1	PL	1LB	ox	UN1500	ox	
	39.	Sodium Phosphate	4	PL	1LB	ORME	NA9147	None	
NA	40	Sodium silica	30	PL	1LB		Non Haz		
	~~41~~	~~Sodium Thiosulfate~~							
	42	Strontium Nitrate	9	PL	1LB	ox	UN1507	ox	
EHW U239	43	Xylene	4	GL	8PT	Fl liq.	UN1307	Fl liq.	*1qt
	44.	Zirconyl nitrate	1	GL	1oz	ox	UN2728	ox	

— 12B Fiberboard box
→ — in 17H as many as could fit

FP
173.119 B.4.

0000149

7-9		119	244	245b	123	182	510	154	800	194	234
VOS	23 244-245b.			X							
	24 153-182 (A) a outside container not to exceed 25 lbs. of Pu-239.					X					
	25 153-154 (A)							X	17H OK		
	26 505-800 inside packages 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 17										
	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 Quin 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 {Packaging compatability:

Disposal Report*	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	UN 1987	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.
37	Sodium Hydroxide	D	UN1823	Corrosive	18	Plastic	"

0000151

0000152

Disposal Request #	Shipping Name	EPA #	ID #	Label	No. # Containers	Container Type	Quantity per container
Oxidizer							
6.	Aluminum nitrate	D003	UN1438	Oxidizer	11	Plastic	1 lb.
14.	Cupric Nitrate	D003	NA1479	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	4 oz.
38.	Sodium Nitrate	D003	UN1500	Oxidizer	1	Plastic	1 lb.
42.	Strontium Nitrate	D003	UN1507	Oxidizer	9	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	"	"		48	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	EPA # 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	U.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	U.A. NA9085	None	2	Glass	1 lb.
39.	Sodium Phosphate	U.A. NA9147	None	4	Plastic	1 lb.

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 N.O.S.)	D007	NA1477	Oxidizer	12	Plastic	1 lb.
ORM-A							
16.	Dimethylaminobenzaldehydroxide (ORM-A n.o.s)	NA	NA1693	None	3	Plastic	100 gm.
19.	Formaldehyde	U122	NA1198	None	27	Plastic	1 pt.
19.	Formaldehyde	U122	NA1198	None	5	Plastic	8 pt.
22.	Hydroxylamine (ORM-A n.o.s.)	NA	NA1693	None	1	Plastic	1 lb.

Fl. liq

on

1, 5

58

32, [redacted], 43

EHW

19+32 = 51 pt

on site

Fl liq 1, 5 7[redacted] + 31 = 38 pt

Combliq 21 23 = 23 pt

100 + (25 long) + 79 + 5 + 90 = 274 lbs

Corrosive

2, 3, 4, 23

37,

Base

acid

ox

6, 14, 24, 25

28, 29, 33, 38

42, 44

11, 13

EHW

5 + 12 = 17 lbs

ORM-A

7, 8

16, [redacted] 18, 19

22

EHW

5 + 27 + 20 = 20 pts

ORME

9, 39

ORMB

26

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, 20, 31

34, 35

16.

0000155

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

4/13

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: Gary 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. Carr Phone: 6-6654 Address: 1171 Company RHO

Date Transported/Disposed: _____

C. Transporter(s) Signature: John Wayne Carr

0000156

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

9112130145

84-3000-101 (9-69)

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

4-13

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

DATE June 20, 1983

FROM Gary R. Cox/Hazardous Waste Cooridinator

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, Quick Sorb, 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. Boruton ←
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. 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.							
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: _____

0000158

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

9112181417

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 SC
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 red
13. Pot Permanganate - tiny Metal Barrel oxid
14. Hydrogen Peroxide - Plastic Barrel oxidiz
15. Oxalic - Plastic Bag no problems
16. Tartaric - Burlap Bag - no problems - trash

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

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

4-19

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

A. Generator's Name: J. A. Compton Phone: 3-2296 Address: 234-5/2-W Company: Rockwell

B. Custodian's Name: T. A. Lane Phone: 3-2426 Address: 234-5/2-W 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. Bucyl Ether	1 pt.	Glass	1		X		Highly Flammable
2. Sulfurous Acid	11 qts.	Glass	11		X		Oxidizer, Corrosive
3. Magnesium Nitrate	250 lbs.	Cdbrd & Metal	3	X			Oxidizer
4. Bismuth Nitrate	100 lbs.	Cdbrd.	1	X			Oxidizer
5. Sodium Nitrate (cont'd)	75 lbs.	Metal	1	X			Oxidizer

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: Item 1 - Refrig. in Dock 5,234-5 Bldg.; Others - 2734-ZH @ SW corner of 234-5 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: Will be surveyed before pick-up

Generator's Signature: James A. Compton Date: 6-22-83

II. APPROVAL

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

Date: November 16, 1983 Signature: Hardin C. Boynton

B. Packaging Requirements (specify): As per Disposal Analysis same date 11-23-83

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

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

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: J.H. Armstrong Phone: 66654 Address: 1171 Company RHO

B. Date Transported/Disposed: 3/16/84 D. E. Pheelps

C. Transporter(s) Signature: John H. Armstrong

Form 1074.1 (N-1-82)

Generic Name	Total Quantity	Type of Container	Number of Containers	(Check One) Sol.	Lio.	Gas	Hazard Class
6. Sodium Nitrite	950 lbs	1 can, 9 sacks	10	X			Oxidizer
7. Disodium Phosphate	75 lbs.	paper sack	1	X			Oxidizer
8. Cesium Carbonate	96 lbs.	1 cdbrd box 1 metal can	2	X			Corrosive
9. Soda Ash	25 lbs.	paper sack	1	X			Corrosive
10. Kaowool Cement	5 gal.	Metal	1	X			
11. Activated Alumina	100 lbs	Metal	1	X			
12. Sodium Flouride	30 lbs.	Cdbrd.	1	X			Corrosive, Acute
13.							Respiratory Hazard!!
14.							
15.							
16.							
17.							
18.							
19.							
20.							
21.							
22.							
23.							
24.							
25.							
26.							
27.							
28.							
29.							
30.							
31.							
32.							
33.							
34.							

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

9112138141-0

Internal Letter

Rockwell International

Date. November 23, 1983

No. 65950-83-1641

TO: (Name, Organization, Internal Address)
J. A. Compton
Advanced Engineer
234-5/205/200W

FROM: (Name, Organization, Internal Address, Phone)
H.C. Boynton
Solid Waste Processing
& Disposal Unit
3-3516

FRIDAY
E 67526
$6400

Subject: APPROVED DISPOSAL REQUEST 4-19 (Rockwell)

Reference: Application To Dispose of Non-radioactive Waste, June 22, 1983, J. A. Compton

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 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 4-19, 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 Processing & Disposal Unit

HCB:bjb

attachment

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

Disposal Analysis 4-19

ONSITE DISPOSAL - Waste reagents listed below are to be properly package and Manifested for disposal at the Hanford Non-radioactive Hazardous Waste Chemical Trench.

Instruction for Packaging, Labeling and Marking:

- o Reagents may be shipped for disposal in their origional containers except as specified below.
- o A DOT Hazard class label must be applied to each container.
- o Each container must be labeled with the reagents shipping name and EPA identification number, as listed on the Disposal Analysis chart.
- o Mark an identification number on each container which correlates with the Hazardous Waste Manifest.
- o Mark on the drum lid, "THIS SIDE UP".
- o Mark the weight of the drum if weight exceeds 110 pounds.

Chemical wastes requiring packaging in overpacks (lab packs).

Item No. 1 Butyl Ether: The one pint of Butyl Ether must be separately overpacked in a 55-gallon steel drum. Use vermiculite to fill the container void space.

Item No. 2 Sulfurous Acid: The eleven one-pint containers must be separately overpacked in a strong tight container. Use vermiculite to fill the container void space.

HAZARD CLASS	DISPOSAL ITEM NO.	SHIPPING NAME	EPA NO.	ID. NO.	LABEL	NO. OF CONTAINERS	CONTAINER TYPE	QUANTITY Per CONTAINER
Flammable liquid	1.	Butyl Ether	D001	UN 1149	Flammable liquid	1	Glass	1 pt.
Corrosive material	2.	Sulfurous Acid	D002	UN 1833	Corrosive	11	Glass	1 qt.
Oxidizer	3.	Magnesium Nitrate	D003	UN 1474	Oxidizer	3	Cardboard & metal	250 lbs.
Oxidizer	4.	Nitrate n.o.s. (Bismuth Nitrate)	D003	NA 1477	Oxidizer	1	Cardboard	100 lbs.
Oxidizer	5.	Sodium Nitrate,	D003	UN 1498	Oxidizer	1	Metal	75 lbs.
Oxidizer	6.	Sodium Nitrate	D003	UN 1500	Oxidizer	10	1 can 9 sacks	950 lbs
ORM-E	7.	Sodium phosphate, dibasic	NA	NA 9147	None	1	paper sack	75 lbs.
ORM-A	8.	ORM-A n.o.s. (Cesium Carborate)	NA	NA 1693	None	2	1 cardboard & 1 metal	50 lbs.
	9.	Soda Ash	NA	Non-regulated		1	paper sack	25 lbs.
	10.	Kaowool Cement	NA	Non-regulated		1	metal	5 gal.
	11.	Activated Alumina	NA	Non-regulated		1	metal	100 lbs.
ORM-B	12.	Sodium fluoride, solid	NA	UN 1690	None	1	Cardboard	30 lbs.

0000165

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

4-37 eff

4-35

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

A. Generator's Name: Mary McCollum Phone: 6-6706 Address: 1167 Bldg./1100 Area Company: Rockwell

B. Custodian's Name: Gary R. Cox Phone: 3-3679 Address: 222-T/200 West 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. Ammonia Hydroxide	60	5gal/glass		X			Empty Containers
2.	3	55gal Dr (Plastic)					"
3.	[redacted] 34	[redacted] Empty 55gal					"
4.		[redacted] drums					"
5.		[redacted]					"

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

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

F. Has waste been treated in any manner? Empty If so, how? _____

G. Storage Location: 2727-S/200 West (outside of 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: N/A

Generator's Signature: Gary R. Cox Date: July 28, 1983

II. APPROVAL

A. Approved for disposal by Name: G.R. Cox Phone: 3-3679 Address: 222-T/200 W Co.: Rockwell

Date: July 28, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): Empty containers, just pickup for disposal

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

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

III. TRANSPORTATION/DISPOSAL

Transporter(s) Name: J.H. Armstrong Phone: 66654 Address: 1171 1100A Company RHO

Date Transported/Disposed: 10-4-83

C. Transporter(s) Signature: [signature]

0000166

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

9112391475

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

5-3

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

A. Generator's Name: Mary McCollum Phone: 6-6706 Address: 1166 Bldg/100 Company: Rockwell

B. Custodian's Name: Gary R. Cox Phone: 3-3679 Address: 2727-S/200-W 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. Altrex Metal Cleaner	6367 lbs	Fiber Drum	16	X			None
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: 2727-S (call Cox at 3-3679 for pickup)

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: Gary R. Cox Date: August 29, 1983

II. APPROVAL

A. Approved for disposal by Name: G.R. Cox Phone: 3-3679 Address: 222-T/200-W Co.: Rockwell
Date: August 29, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): None

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

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: J.H. Armstrong Phone: 6654 Address: 1171 1100A Company RHO

Date Transported/Disposed: 10-4-83

C. Transporter(s) Signature: John H. Armstrong

0000167

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

9112180147.6

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

Date: 10-12-83 Signature: Herbert 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 Hodgson

C. Transporter(s) Signature: _____

0000168

BC-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

3294-2 5-1

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.	789-000-8967	E.P.A. ID Code No.	WA 789-000-8967
Address	HANFORD LANDFILL	Address	BLDG. 1166/1100 AREA
Destination		Origin	RICHLAND, WA
Phone		Phone	6-7494

No Shipping Units	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	Haz Mat. ID No	EPA Haz Waste No	WEIGHT	LABELS REQUIRED (or Exemption No.)
1	TRICHLOROACETIC ACID SOLUTION	CORROSIVE	UN-2564	D002	1 lb	CORROSIVE
1	METHY 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 _____

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 R. CALLAWAY
Phone 5-7110

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 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 _____

T/S/D F COPY 0000169

HAZARDOUS WASTE

HAZARDOUS WASTE

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.

0000171

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. Approved for disposal by Name: H C Boynton Phone: 3-3516 Address 2750E Co.: R1-0

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

B. Packaging Requirements (specify): Refer To Internal Letter Oct 12, 1983, HC Boynton To WW 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?

BC-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: HEW, 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	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 2. – SALVAGE 3. – SCRAP 4. – BURY 5. – DESTROY 6. – OTHER (EXPLAIN)

REASON FOR DISPOSAL. (IF CONTAMINATED, ATTACH RADIATION SURVEY REPORT.)
INFERIOR CHEMICALS
INFERIOR CHEMICALS
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?

	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

0000174

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.

5-41

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

Waste 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 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

5-19

I. **GENERATION:** The Generator should complete Part I and forward this form to: 222-T WS&DT 202-S/200 West Rockwell

A. Generator's Name: J.A. McINtyre Phone: 6-6131 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
1. Doctyl Sebacate	50 gallons	tim	1	x			
2.							
3.							
4.							
5.							

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

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

F. Has waste been treated in any manner? yes If so, how? liquid made solid by vermiculite

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: Julia a McIntyre Date: 9/21/83

II. **APPROVAL**

A. Approved for disposal by Name: G.R. Cox Phone: 3-3679 Address 222-T/200W Co.: Rockwell

Date: Sept. 22, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): Absorbed in 55 gal container

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

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

III. **TRANSPORTATION/DISPOSAL**

A. Transporter(s) Name: Lance G. Davis Phone: 237654 Address: 1171 Company RHV

B. Date Transported/Disposed: 10-17-83 D E Dahl

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

0000178

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

5-23

A. Generator's Name: C. Hoffman Phone: 6-3405 Address: 313/300 Area Company: UNC

B. Custodian's Name: C. Hoffman Phone: 6-3405 Address: 313/300 Area 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. Oil Drums-Empty	31	Metal	31	X			
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? Yes

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

G. Storage Location: 313 East - Oil Storage

"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: 07473

Generator's Signature: C. C. Hoffman Date: 9-26-83

II. APPROVAL

A. Approved for disposal by Name: G.R. Cox Phone: 3-3679 Address 222-T/200W Co.: Rockwell

Date: Sept. 29, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): Empty drums- no problem

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

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

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: ARMSTRONG Phone: 376654 Address: 1171 Company RHO

Date Transported/Disposed: 10/3/83

C. Transporter(s) Signature: [signature]

D. E. Pikelos 10-3-83 Chemical Trench

000017

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

9112191.8

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

6-17

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

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
1. Empty Containers	51						
2. as listed							
3. Open Request							
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? _____

Storage Location: 202-A/200-East

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: R. A. Polk R. A. Polk Date: 11/14/83

II. **APPROVAL**

A. Approved for disposal by Name: G. R. Cox Phone: 3-3679 Address 222-T/200-W Co.: Rockwell

Date: 11/14/83 Signature: Gary R. Cox

B. Packaging Requirements (specify): Open request for disposal of empty containers as listed.

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

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

III. **TRANSPORTATION/DISPOSAL**

Transporter(s) Name: Lance A. Davis Phone: 66654 Address: 1171 Company RHO

B. Date Transported/Disposed: Nov 18, 1983

C. Transporter(s) Signature: _____

0000180

BC-6700-174 (Rev 1 82)

9112180119

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
7. Limestone - Paper Bag - trash to form SO_x
8. Calcium Nitrate - Fiber Barrel oxidizer
9. Oxalic Acid - Fiber Barrel toxic oral
10. Ferrous Sulfamate - Fiber Barrel no pro
11. Hydrazine - Metal Barrel - reducer +
12. HN - Metal Barrel, some plastic drums
13. Pot Permanganate - tiny Metal Barrel
14. Hydrogen Peroxide - Plastic Barrel oxi
15. Oxalic - Plastic Bag no problems
16. Tartaric - Burlap Bag - no problems - tra
17. CADMIUM - NITRATE, ~~[illegible]~~ metal [illegible]

Your suggestions and recommendations for disposal of these containers in an expediant and reasonable cost to meet the required guidel nes 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

0000181

54-3000-101 (9-89)

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

DATE June 20, 1983

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

FROM Gary R. Cox / Hazardous Waste Cooridinator

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, Quick Sorb, 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 Chromium 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 necessary to dispose

cc: H. Boynton
D. Poor

"TO MAKE LIFE LAST, PUT SAFETY FIRST"

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

5-19

I. **GENERATION:** The Generator should complete Part I and forward this form to: 222T WS&DT 202-S/200 West Rockwell

A. Generator's Name: J.A. McINtyre Phone: 6-6131 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
1. Doctyl Sebacate	50 gallons	tim	1	x			
2.							
3.							
4.							
5.							

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

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

F. Has waste been treated in any manner? yes If so, how? liquid made solid by vermiculite

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: Julia a McIntyre Date: 9/21/83

II. **APPROVAL**

A. Approved for disposal by Name: G.R. Cox Phone: 3-3679 Address: 222-T/200W Co.: Rockwell

Date: Sept. 22, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): Absorbed in 55 gal container

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

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

III. **TRANSPORTATION/DISPOSAL**

A. Transporter(s) Name: Lance G Davis Phone: 237654 Address: 1171 Company RHJ

B. Date Transported/Disposed: 10-17-83 DE Dhabe

C. Transporter(s) Signature: Lance G Davis

000018.3

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

5-23

A. Generator's Name: C. Hoffman Phone: 6-3405 Address: 313/300 Area Company: UNC

B. Custodian's Name: C. Hoffman Phone: 6-3405 Address: 313/300 Area 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. Oil Drums—Empty	31	Metal	31	X			
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? Yes

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

G. Storage Location: 313 East - Oil Storage

"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: 07473

Generator's Signature: C. C. Hoffman Date: 9-26-83

II. APPROVAL

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

Date: Sept. 29, 1983 Signature: Gary R. Cox

B. Packaging Requirements (specify): Empty drums- no problem

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

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

III. TRANSPORTATION/DISPOSAL

A. Transporter(s) Name: Armstrong Phone: 376454 Address: 1171 Company RHO

Date Transported/Disposed: 10/3/83

C. Transporter(s) Signature: [signature]

D. E. Fikelpos 10-3-83 Chemical Trench

000018

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

9112191173

DON'T SAY IT --- Write It!

DATE November 14, 1983

TO ~~R.A. Polk~~ Dennis Poor

FROM Gary R. Cox

Please sign this Disposal Request, attach a copy of the orginal reference letter listing the empty containers (PS-017-83), and send it to Dennis Poor
1171 Bldg./1100 Area
RHO.

This should get things straightened out so we may continue to serve you as we have in the past. Thanks.

Any problems call me, R.A. Polk
Ph. 3-2323

"TO MAKE LIFE LAST, PUT SAFETY FIRST"

GIVE THIS TO
GENE AT THE
LANDFILL

0000185

HEDL

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: C S Hofmeister Phone: 6-3420 Address: 340/300 Company: HEDL

B. Custodian's Name: SAME Phone: SAME Address: HEDL Boneyard Company: HEDL

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 Hydroxide Liquid	17	55-gallon	17				
2 CAUSTIC		drum		Drums rinsed-empty			
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? yes

F. Has waste been treated in any manner? No If so, how? (Caustic emptied; drums rinsed)

G. Storage Location: Currently at HEDL Boneyard Awaiting disposal

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: C S Hofmeister Date: 2-10-83

II. **APPROVAL**

A. Approved for disposal by Name: M H Litzinger Phone: 3-2462 Address 202-S 200W Co.: RHO

Date: 1/12/83 Signature: M. H. Litzinger

B. Packaging Requirements (specify): Empty Caustic Drum - This request is not good for any other wastes

C. Disposal Location: Chemical Trench (check one) Chemical Trench, _____ Asbestos Trench, _____ 212-P (Storage), _____ Other

D E Phelps

III. **TRANSPORTATION/DISPOSAL**

Transporter(s) Name: Lance Davis Phone: 66654 Address 1171 Company PHO

B. Date Transported/Disposed: 2-10-83

C. Transporter(s) Signature: Lance Davis

0000186

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

9112180475

Rockwell

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: Mike Malarch Phone: 66654 Address: 1160 Dorm Company: Rockwell

B. Custodian's Name: Mike Malarche Phone: 66654 Address: 1160 Dorm 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. Empty Pesticide Containers	108	Paper					NON
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? NA.

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

G. Storage Location: 4 Barrel Cadre Chemical Storage Shed.

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: Mike Malarch Date: 3/29/83

II. **APPROVAL**

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

Date: 2/25/83 Signature: Gary R. Cox

B. Packaging Requirements (specify): N/A

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

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

D E Phelps Chemical Trench 3-29-83

III. **TRANSPORTATION/DISPOSAL**

Transporter(s) Name: John W. Cox Phone: 66654 Address: 1101 Company RHO

b. Date Transported/Disposed: 3/29/83

C. Transporter(s) Signature: John Wayne Cox

0000187

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

9111210176