

# START

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Hanford Operations

## HAZARDOUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD

### DISPOSAL ACTIVITY

Disposal (DB1):  
 Oxidizer Trench  
 Corrosive Trench  
 Asbestos Trench

Non-PCB Onsite Storage (SO1)/Offsite TSD:   
 PCB: Onsite Storage/Offsite Disposal:

### ORIGINATOR

End Function: B65450      Manifest Number: RHO-5-31  
 Company: RHO      Building/Area: 334-5/300 West  
 Contact Person: T D Cooper  
 Address/Phone: 234-5/200 West 3-2543

### PHYSICAL DESCRIPTION

Item No.	Description Of Waste	DOT Hazard Class	WDOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	Dry salt cake $\text{NaNO}_3, \text{NaNO}_2, \text{NaOH}$ Oxidizer, Corrosive solid	NA 9194	0002		96	334-5/200 W
2						
3						
4						
5						
6						
7						
8						
9						
10						



# BEST AVAILABLE COPY

For additional items, continue on the back of this form.      Total Weight (Front & Back) \_\_\_\_\_ KG      Total Volume (Front & Back) \_\_\_\_\_ FT<sup>3</sup>

### TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)

ONSITE DISPOSAL:	Disposal Date: <u>1/11/85</u>	Signature: Disposer
	Trench Location:	Beginning Coordinates: N      W Ending Coordinates: N      W
NON PCB OFFSITE DISPOSAL	Storage Time:	Arrival Date:
	Offsite TSD	Date Shipped:
		Facility Name:
		Facility Address:
	TSD Process:	<input type="checkbox"/> Landfill (DB1): Disposal Date <input type="checkbox"/> Treatment (TO _____): Treatment Date Specify Treatment Activity  <input type="checkbox"/> Other ( _____ ): Specify Activity
PCB OFFSITE DISPOSALS	Storage Time:	Beginning Date:
	Offsite Disposal:	Date Shipped:
		Facility Name:
		Facility Address:

COMMENTS:

(Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

**RM HAZARDOUS  
TE MANIFEST**

1. Generator's US EPA ID No. **WA 789 000 5967** Manifest Document No.

2. Page 1 of 1 Information in the shaded areas is not required by Federal law.

Name and Mailing Address **TD Cooper RHF-5-31 234-5/20 West**

A. State Manifest Document Number

B. State Generator's ID

Generator's Phone (509) 373-1543

Transfer 1 Company Name **Russell Hauling** 6. US EPA ID Number **WA 781 000 5967**

C. State Transporter's ID

D. Transporter's Phone **376-1120**

Transfer 2 Company Name **NA** 8. US EPA ID Number **NA**

E. State Transporter's ID

F. Transporter's Phone

Facility Name and Site Address 10. US EPA ID Number

G. State Facility's ID

**Industrial Trench (Landfill) WA 789 000 5967**  
**Industrial Landfill**

H. Facility's Phone (509) 376-6748

Material Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
	No.	Type			
<b>Oxidizing, Corrosive Oxidizer NA 9174</b> <b>Sol. d. Non.</b>	<b>13</b>	<b>DI</b>	<b>715</b> <del>510</del> 280	<b>9</b>	<b>D002</b> D001 D002

Additional Descriptions for Materials Listed Above  
**13 55 gal drums = 96 ft<sup>3</sup>**  
**Dry salt cure**

K. Handling Codes for Wastes Listed Above

L. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name **Thommas D. Cooper** Signature **[Signature]** Date **Certified by**  
Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials  
Printed/Typed Name **[Signature]** Signature **[Signature]** Date **[Signature]**  
Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials  
Printed/Typed Name **[Signature]** Signature **[Signature]** Date **[Signature]**  
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  
Printed/Typed Name **DE Phelps** Signature **[Signature]** Date **11/11/85**  
Month Day Year

21121700002

TRANSPORTER FACILITY

# Internal Letter



# Rockwell International

Date: October 30, 1984

No. 05000-84-056

TO: (Name, Organization, Internal Address)  
T. D. Cooper  
234-5/200 West

FROM: (Name, Organization, Internal Address, Phone)  
H. A. Haerer  
Hazardous Waste Program  
3-4216

Subject: DISPOSAL ANALYSIS No. 5-31

Reference: Chemical Waste Disposal Request, September 10, 1984

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

All packaging, labeling and marking of the waste must be completed in accordance with the prescribed instructions, which are based on Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. A partially completed manifest is attached for your use.

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifest. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented following compliance with the disposal instructions for Onsite Disposal in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting Mr. A. D. Poor (6-1420).

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

*H. A. Haerer*  
H. A. Haerer  
Project Manager  
Hazardous Waste Program

HAH:LFL:jss

cc: G. R. Cox *GRC*  
D. R. Groth *DRG*  
L. F. Lust  
A. D. Poor

Att.

0000003

DISPOSAL ANALYSIS NO. 5-31

Onsite Disposal

Items listed for Onsite Disposal must be properly packaged, labeled and manifested for disposal at the Hanford Nonradioactive Hazardous Waste Chemical Trench.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for onsite disposal:

- o In accordance with 49 CFR 173.24, waste must be packaged in strong, tight DOT-approved containers.
- o The DOT Label (s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell Central Stores.
- o The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- o The weight of the container, if over 110 pounds, must be marked on the container.
- o In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, in letters at least one-half inch high and in a color which contrasts with the container.
- o Bungs must be securely in place for transport.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifest has been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifest will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

0000004

DISPOSAL ANALYSIS NO. 5-31

Onsite Disposal

Items listed for Onsite Disposal must be properly packaged, labeled and manifested for disposal at the Hanford Nonradioactive Hazardous Waste Chemical Trench.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for onsite disposal:

- o In accordance with 49 CFR 173.24, waste must be packaged in strong, tight DOT-approved containers.
- o The DOT Label (s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell Central Stores.
- o The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- o The weight of the container, if over 110 pounds, must be marked on the container.
- o In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, in letters at least one-half inch high and in a color which contrasts with the container.
- o Bungs must be securely in place for transport.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifest has been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifest will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

0000005

DISPOSAL ANALYSIS NO. 5-31

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL .	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
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OFFSITE DISPOSAL

ONSITE DISPOSAL

1		Oxidizer, Corrosive Solid, NOS	Oxidizer	NA9194	Oxidizer and Corrosive	D002	13	55 Gallon Steel Drums	40 gallons
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REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE

5-31

GENERATION: The Generator should complete Part I and forward this form to:

WS&DT  
202-S/200 West  
Rockwell

- A. Generator's Name: TD Cooper Phone: 3-2543 Address: 234-5/200W Company: RHO
- B. Custodian's Name: TD Cooper Phone: 3-2543 Address: 234-5/200W 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)			Hazard Class
				Sol.	Liq.	Gas	
1. Waste Salt (90% NaNO <sub>2</sub> ) (4% NaNO <sub>3</sub> )	65 ft <sup>3</sup>	55 gal drum	12	x			Oxidizer
2.							
3.							
4. NaNO <sub>2</sub> = 10% Sodium Nitrite							
5. NaNO <sub>2</sub> = 40% Sodium Nitrite							

- 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? Dried
- G. Storage Location: 234-5 Building, Development Labs

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: EE 83-1642

Generator's Signature: Thurman D. Cooper Date: 9-27-83

II. APPROVAL

- A. Approved for disposal by Name: G.R. Cox Phone: 3-3679 Address: 222-T/200W Co.: Rockwell  
Date: October 5, 1983 Signature: G.R. Cox
- B. Packaging Requirements specify: As packed
- C. Disposal Location: \_\_\_\_\_ Chemical Trench, \_\_\_\_\_ Asbestos Trench, \_\_\_\_\_  
(check one) \_\_\_\_\_ 212-P (Storage), 2727-5 Other (offsite shipment)

III. TRANSPORTATION/DISPOSAL

- A. Transporter(s) Name: \_\_\_\_\_ Phone: \_\_\_\_\_ Address: \_\_\_\_\_ Company: \_\_\_\_\_
- B. Date Transported/Disposed: \_\_\_\_\_
- C. Transporter(s) Signature: \_\_\_\_\_

9112100079

# Internal Letter



# Rockwell International

Date: October 30, 1984

No. 05000-84-056

TO: (Name, Organization, Internal Address)  
T. D. Cooper  
234-5/200 West

FROM: (Name, Organization, Internal Address, Phone)  
H. A. Haerer  
Hazardous Waste Program  
3-4216

Subject: DISPOSAL ANALYSIS No. 5-31

Reference: Chemical Waste Disposal Request, September 10, 1984

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

All packaging, labeling and marking of the waste must be completed in accordance with the prescribed instructions, which are based on Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. A partially completed manifest is attached for your use.

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifest. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented following compliance with the disposal instructions for Onsite Disposal in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting Mr. A. D. Poor (6-1420).

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

H. A. Haerer  
Project Manager  
Hazardous Waste Program

HAH:LFL:jss

cc: G. R. Cox *GRC*  
D. R. Groth *DRG*  
L. F. Lust  
A. D. Poor

Att.

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DISPOSAL ANALYSIS NO. 5-31Onsite Disposal

Items listed for Onsite Disposal must be properly packaged, labeled and manifested for disposal at the Hanford Nonradioactive Hazardous Waste Chemical Trench.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for onsite disposal:

- o In accordance with 49 CFR 173.24, waste must be packaged in strong, tight DOT-approved containers.
- o The DOT Label (s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell Central Stores.
- o The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- o The weight of the container, if over 110 pounds, must be marked on the container.
- o In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, in letters at least one-half inch high and in a color which contrasts with the container.
- o Bungs must be securely in place for transport.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifest has been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifest will be returned to SWP&DU, 2750-E, 200 East for distribution of the copies.

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DISPOSAL ANALYSIS NO. 5-31

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
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### OFFSITE DISPOSAL

### ONSITE DISPOSAL

1		Oxidizer, Corrosive Solid, NOS	oxidizer	NA9194	Oxidizer and Corrosive	D002	13	55 Gallon Steel Drums	40 gallons  Dry salt cake
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0000012



<b>STORAGE/DISPOSAL ACTIVITY</b> Onsite Disposal (D81): <input type="checkbox"/> Oxidizer Trench <input checked="" type="checkbox"/> Corrosive Trench <input type="checkbox"/> Asbestos Trench  Non-PCB Onsite Storage (SO1)/Offsite TSD: <input type="checkbox"/> PCB Onsite Storage/Offsite Disposal: <input type="checkbox"/>	<b>ORIGINATOR</b> End Function: <u>B65450</u> Manifest Number: <u>RHO-5-31</u> Company: <u>RHO</u> Building/Area: <u>234-5/200 West</u> Contact Person: <u>T D Cooper</u> Address/Phone: <u>234-5/200 West 3-2543</u>
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PHYSICAL DESCRIPTION						
Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	Dry salt cake NaNO <sub>3</sub> , NaNO <sub>2</sub> , NaOH Oxidizer, corrosive solid	NA 9194	0002		96	234-5/200 W
2						
3						
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form.	Total Weight (Front & Back) _____ KG	Total Volume (Front & Back) _____ FT <sup>3</sup>
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**TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)**

ONSITE DISPOSAL:   NON PCB OFFSITE DISPOSAL   PCB OFFSITE DISPOSALS	Disposal Date: <u>1/11/75</u>  Trench Location: _____ Beginning Coordinates: N _____ W _____ Ending Coordinates: N _____ W _____  Storage Time: _____ Offsite TSD  Storage Time: _____ Offsite Disposal: _____	Signature: Disposer _____  Arrival Date: _____ Date Shipped: _____ Facility Name: _____ Facility Address: _____ TSD Process: Landfill (D81): <input type="checkbox"/> Disposal Date Treatment (TO ____): <input type="checkbox"/> Treatment Date Specify Treatment Activity  Other ( _____ ): <input type="checkbox"/> Specify Activity  Beginning Date: _____ Date Shipped: _____ Facility Name: _____ Facility Address: _____
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COMMENTS:

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<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>WA 789 000 8967</b>	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.						
3. Generator's Name and Mailing Address <b>TD Cooper RHD-5-31 234-5/200 West</b>			A. State Manifest Document Number		B. State Generator's ID						
4. Generator's Phone ( <b>509</b> ) <b>373-2543</b>			C. State Transporter's ID		D. Transporter's Phone <b>376-1420</b>						
5. Transporter 1 Company Name <b>Rockwell Hanford</b>		6. US EPA ID Number <b>WA 789 000 8967</b>		E. State Transporter's ID		F. Transporter's Phone					
7. Transporter 2 Company Name <b>NA</b>		8. US EPA ID Number <b>NA</b>		G. State Facility's ID		H. Facility's Phone <b>(509) 376-6748</b>					
9. Designated Facility Name and Site Address <b>Chemical Trench (Oxidizer) Central Landfill</b>			10. US EPA ID Number <b>WA 789 000 8967</b>		G. State Facility's ID		H. Facility's Phone <b>(509) 376-6748</b>				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.		
a. <b>Oxidizer, Corrosive Solid, NOS</b>			<b>13</b> <b>DM</b>		<b>715</b> <del>500</del>		<b>G</b>		<b>D002</b>		
b.											
c.											
d.											
J. Additional Descriptions for Materials Listed Above <b>13 drums containing salt cake ~ 96 lb<sup>3</sup></b>						K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.											
Printed/Typed Name <b>Thurman D. Cooper</b>						Signature <i>Thurman Cooper</i>			Date <b>1 11 85</b>		
17. Transporter 1 Acknowledgement of Receipt of Materials											
Printed/Typed Name <b>J. A. Aldridge</b>						Signature <i>J. A. Aldridge</i>			Date <b>1 11 85</b>		
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name						Signature			Date		
19. Discrepancy Indication Space											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name <b>DE Phelps</b>						Signature <i>DE Phelps</i>			Date <b>1 11 85</b>		

9112170015

**REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE**

**I. GENERATION:** The Generator should complete Part I and forward this form to:

WS&DT  
202-S/200 West  
Rockwell

**5-31**

- A. Generator's Name: TD Cooper Phone: 3-2543 Address: 234-5/200W Company: RHO  
 B. Custodian's Name: TD Cooper Phone: 3-2543 Address: 234-5/200W 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)			Hazard Class
				Sol.	Liq.	Gas	
1. Waste Salt (90% NaNO <sub>2</sub> ) (4% NaNO <sub>3</sub> )	65 ft <sup>3</sup>	55 gal drum	12	x			Oxidizer
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? No  
 F. Has waste been treated in any manner? Yes if so, how? Dried  
 G. Storage location: 234-5 Building, Development Labs

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: ZZ83-1642

Generator's Signature: Thurman D. Cooper Date: 9-27-83

**II. APPROVAL**

- A. Approved for disposal by Name: G.R. Cox Phone: 3-3679 Address: 222T/200W Co.: Rockwell  
 Date: October 5, 1983 Signature: G.R. Cox  
 B. Packaging Requirements (specify): As packed

C. Disposal Location: \_\_\_\_\_ Chemical Trench, \_\_\_\_\_ Asbestos Trench,  
 (check one) \_\_\_\_\_ 212-P (Storage), 2727-5 Other (offsite shipment)

**III. TRANSPORTATION/DISPOSAL**

- A. Transporter(s) Name: \_\_\_\_\_ Phone: \_\_\_\_\_ Address: \_\_\_\_\_ Company: \_\_\_\_\_  
 B. Date Transported/Disposed: \_\_\_\_\_  
 C. Transporter(s) Signature: \_\_\_\_\_

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On Friday, November 8, 1985, trench #19-N, the Oxidizer Trench at the Central Landfill was excavated in order to remove drums containing sodium nitrite. All other waste drums previously manifested to this trench were also removed. The following information is to be attached to each hazardous waste manifest which was affected by the excavation.

Manifest #	Status of Waste Drums After Trench Excavation:
RHO-13-33	Drums disposed to trash trench, central landfill.
PNL-7-23	Drums were returned back to oxidizer trench.
UNC-12-158	Drums were returned back to oxidizer trench.
RHO-5-31	13 drums of sodium nitrite were not located in the oxidizer trench. It is assumed that burial took place in the corrosive trench, since the manifest gives a disposal date to the chemical trench.
RHO-13-9	Drums were disposed to trash trench, central landfill.
RHO-11-29	Drums were disposed to trash trench, central landfill.
RHO-13-5	Drums were disposed to trash trench, central landfill.
RHO-11-3	Drums were disposed to trash trench, central landfill.
PNL-7-25	2 lab packs in this disposal request were not located in the oxidizer trench. It is assumed that past burial occurred in the corrosive trench, since the manifest shows disposal in the chemical trench.
RHO-10-31	Drums were disposed to trash trench, central landfill.
PNL-5-9	18 Drums of sodium nitrite were transported to the 2727-S storage facility/200 West because of their EHW designation. For the 10 drums of hydrated nickel listed on the manifest, status is: 1 drum was also transported to 2727-S, for storage (EHW because of carcinogenic waste designation). At time of transport drum was not known. The hydrated nickel drum was opened at 2727-S for clear identification. The other 9 drums of hydrated nickel were not found in the oxidizer trench. It is assumed they were buried in the corrosive trench.
RHO-9-33	Drums <del>red</del> disposed to the oxidizer trench.
PNL-5-17	Drums were disposed to trash trench, central landfill.

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<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. WA7 89 000 8967	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address PNL c/o - Jeene Hobbs, 3762/300 Area			PNL-723		A. State Manifest Document Number	
4. Generator's Phone (509) 376-1631			PNL-M-85-001		B. State Generator's ID	
5. Transporter 1 Company Name Rockwell Hanford Operations		6. US EPA ID Number WA7 89 000 8967		C. State Transporter's ID		
7. Transporter 2 Company Name NA		8. US EPA ID Number NA		D. Transporter's Phone 376-1420		
9. Designated Facility Name and Site Address Chemical Trench - Central Landfill Hanford Project		10. US EPA ID Number WA7 89 000 8967		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone 376-6748		
11. US DOT Description (Including Proper Shipping Name; Hazard Class and ID Number)			12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Waste calcium nitrate, oxidizer, UN1454			3	17H 55	675	P
b. Waste sodium nitrate, oxidizer, UN1498			1	17H	50	P
c.						
d.						
J. Additional Descriptions for Materials Listed Above Item a is packed in drums numbered PNL-85-01,02,&03. Item b is packed in drum number PNL-85-04.				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information - The chemicals are currently stored at 332.  This document corresponds to disposal request PNL-84-006 (RHO 84-7-23).						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.						
Printed/Typed Name Jeene Hobbs		Signature <i>Jeene M. Hobbs</i>			Date 5/14/85	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature			Date	
Printed/Typed Name		Signature			Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature			Date	
Printed/Typed Name LAUCE G DAVIS		Signature <i>Lance G Davis</i>			Month Day Year 5/14/85	
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name D F Phelps		Signature <i>D E Phelps</i>			Date 5/14/85	

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9112170013

GENERATOR TRANSPORTER FACILITY

Rockwell Hanford Operations

**DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD**

<b>STORAGE/DISPOSAL ACTIVITY</b>		<b>ORIGINATOR</b>	
Onsite Disposal (DBI):	<input checked="" type="checkbox"/> Oxidizer Trench <input type="checkbox"/> Corrosive Trench <input type="checkbox"/> Asbestos Trench	End Function:	Manifest Number: <b>PNL-7-23</b>
Non-PCB Onsite Storage (SOI)/Offsite TSD: <input type="checkbox"/> PCB Onsite Storage/Offsite Disposal: <input type="checkbox"/>		Company: <b>DNL</b>	Building/Area: <b>332/300</b>
		Contact Person: <b>J. M. Hobbs</b>	
		Address/Phone: <b>3762 Bldg / 376-1631</b>	

PHYSICAL DESCRIPTION						
Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	WASTE (3 Drums) CALCIUM NITRATE, OXIDIZER	UN154	D001	675lbm	3-55 gal Drums	PNL-300
2	WASTE 1 Drum NAO <sub>2</sub> , OXIDIZER	UN1498	D001	50lbm	30 gal Drum	"
3						
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form.

Total Weight (Front & Back) \_\_\_\_\_ KG  
 Total Volume (Front & Back) \_\_\_\_\_ FT<sup>3</sup>

**TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)**

ONSITE DISPOSAL:	Disposal Date:	Signature: Disposer	
	Trench Location:	Beginning Coordinates: N	W
		Ending Coordinates: N	W
NON PCB OFFSITE DISPOSAL	Storage Time:	Arrival Date:	
	Offsite TSD	Date Shipped:	
		Facility Name:	
		Facility Address:	
	TSD Process:	Landfill (DBI): <input type="checkbox"/> Disposal Date Treatment (TO____): <input type="checkbox"/> Treatment Date Specify Treatment Activity  Other (____): <input type="checkbox"/> Specify Activity	
PCB OFFSITE DISPOSALS	Storage Time:	Beginning Date:	
	Offsite Disposal:	Date Shipped:	
		Facility Name:	
		Facility Address:	

COMMENTS:

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Rockwell  
International

Ms. J. M. Hobbs

Page 2

JUN 19 1984

Should you require further assistance regarding the disposition of these wastes, please contact me on 3-3516.

Very truly yours,

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

HCB/njb

Att.

cc: G. C. Cox - Rockwell, w/att  
A. D. Poor - Rockwell, w/att

0000021

REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE 7-23

PNL-84-006

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: Rob Cuello Phone: Address: Company:

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

Table with 6 columns: Generic Name, Total Quantity, Type of Container, Number of Containers, (Check One) Sol./Liq./Gas, Hazard Class. Rows include Calcium nitrate and Sodium nitrate.

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

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

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

G. Storage Location: 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 Date: 2-7-84

9112170022

II. APPROVAL

A. Approved for disposal by Name: H. C. Boynton Phone: 3-3516 Address: 2750-E Co.: Rockwell Date: 6/13/84 Signature: HCB DD Asst for

B. Packaging Requirements (specify): Refer to Disposal Analysis PNL-6-11-84

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:

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>WA7 89 000 8967</b>	Manifest Document No.	2. Page 1 of <b>1</b>	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <b>PNL c/o - Jeene Hobbs, 3762/300 Area</b>				A. State Manifest Document Number <b>PNL-7-23</b>		
4. Generator's Phone ( <b>509</b> ) <b>376-1631</b>				B. State Generator's ID <b>PNL-M-85-001</b>		
5. Transporter 1 Company Name <b>Rockwell Hanford Operations</b>		6. US EPA ID Number <b>WA7 89 000 8967</b>		C. State Transporter's ID		
7. Transporter 2 Company Name <b>NA</b>		8. US EPA ID Number <b>NA</b>		D. Transporter's Phone <b>376-1420</b>		
9. Designated Facility Name and Site Address <b>Chemical Trench - Central Landfill Hanford Project</b>		10. US EPA ID Number <b>WA7 89 000 8967</b>		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone <b>376-16748</b>		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers	13. Total	14. Unit	15. Waste No.
			No.	Quantity	Wt/Vol	
a.	<b>Waste calcium nitrate, oxidizer, UN1454</b>		<b>3</b>	<b>17H 55</b>	<b>675</b>	<b>P D001</b>
b.	<b>waste sodium nitrate, oxidizer, UN1496</b>		<b>1</b>	<b>17H</b>	<b>50</b>	<b>P D001</b>
c.						
d.						
J. Additional Descriptions for Materials Listed Above <b>Item a is packed in drums numbered PNL-35-01,02,03. Item b is packed in drum number PNL-35-04.</b>				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information <b>The chemicals are currently stored at 332. This document corresponds to disposal request PNL-84-006 (RHO 34-7-23).</b>						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.						
Printed/Typed Name <b>Jeene Hobbs</b>			Signature <i>Jeene Hobbs</i>		Date <b>5/14/85</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name			Signature		Date	
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name <b>LANCE G DAVIS</b>			Signature <i>Lance G Davis</i>		Date <b>5/14/85</b>	
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name <b>D E Phelps</b>			Signature <i>D E Phelps</i>		Date <b>5/14/85</b>	

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GENERATOR

TRANSPORTER

FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. WA7 89 000 8967	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address PHL c/o - Jeene Hobbs, 3762/300 Area				A. State Manifest Document Number		
4. Generator's Phone (509) 376-1631				B. State Generator's ID PHL-M-85-001		
5. Transporter 1 Company Name Rockwell Hanford Operations		6. US EPA ID Number WA7 89 000 8967		C. State Transporter's ID		
7. Transporter 2 Company Name EA		8. US EPA ID Number WA		D. Transporter's Phone 376-1420		
9. Designated Facility Name and Site Address Chemical Trench - Central Landfill Hanford Project		10. US EPA ID Number WA7 89 000 8967		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
						I. Waste No.
a.	waste calcium nitrate, oxidizer, UN1454			3	17H 55	675 P 0001
b.	waste sodium nitrate, oxidizer, UN1493			1	17H	50 P 0001
c.						
d.						
J. Additional Descriptions for Materials Listed Above Item a is packed in drums numbered PHL-85-01,02,03. Item b is packed in drum number PHL-85-04.				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information The chemicals are currently stored at 332. This document corresponds to disposal request PHL-84-006 (RHO 04-7-23).						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.						
Printed/Typed Name Jeene Hobbs				Signature		Date Month Day Year
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name				Signature		Date Month Day Year
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name				Signature		Date Month Day Year
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name				Signature		Date Month Day Year

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91121900024

GENERATOR

TRANSPORTER

FACILITY

Rockwell Hanford Operations

**DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD**

**STORAGE/DISPOSAL ACTIVITY**

Onsite Disposal (D81):  
 Oxidizer Trench  
 Corrosive Trench  
 Asbestos Trench

Non-PCB Onsite Storage (SOI)/Offsite TSD:   
 PCB Onsite Storage/Offsite Disposal:

**ORIGINATOR**

End Function: B53100/ G531AA      Manifest Number: RHO 12-21B  
 Company: RHO      Building/Area: 2101M/200 East  
 Contact Person: F. J. Orsag  
 Address/Phone: 2101M/200 East 373-2354

**PHYSICAL DESCRIPTION**

Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	Empty Non-regulated drums (21)	None	None	668	154	2101M/200 East
2						
3						
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form.      Total Weight (Front & Back) 668 KG      Total Volume (Front & Back) 154 FT<sup>3</sup>

**TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)**

ONSITE DISPOSAL:      Disposal Date:      Signature: Disposer  
 Trench Location:      Beginning Coordinates: N      W  
 Ending Coordinates: N      W

NON PCB OFFSITE DISPOSAL  
 Storage Time:      Arrival Date:  
 Date Shipped:  
 Offsite TSD      Facility Name:  
 Facility Address:  
 TSD Process:      Landfill (D81):  Disposal Date  
 Treatment (TO \_\_\_\_):  Treatment Date  
 Specify Treatment Activity  
 Other ( \_\_\_\_ ):   
 Specify Activity

PCB OFFSITE DISPOSALS  
 Storage Time:      Beginning Date:  
 Date Shipped:  
 Offsite Disposal:      Facility Name:  
 Facility Address:

COMMENTS:

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<b>STORAGE/DISPOSAL ACTIVITY</b> Onsite Disposal (D81): <input type="checkbox"/> Oxidizer Trench <input checked="" type="checkbox"/> Corrosive Trench <input type="checkbox"/> Asbestos Trench  Non-PCB Onsite Storage (SOI)/Offsite TSD: <input type="checkbox"/> PCB Onsite Storage/Offsite Disposal: <input type="checkbox"/>	<b>ORIGINATOR</b> End Function: B53100/ G531AA Manifest Number: RHO 12-21B Company: RHO Building/Area: 2101M/200 East Contact Person: F. J. Orsag Address/Phone: 2101M/200 East 373-2354
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PHYSICAL DESCRIPTION						
Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	Empty Non-regulated drums (21)	None	None	668	154	2101M/200 East
2						
3						
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form.

Total Weight (Front & Back) 668 KG      Total Volume (Front & Back) 154 FT<sup>3</sup>

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)			
<b>ONSITE DISPOSAL:</b>  Disposal Date:  Trench Location:	Disposal Date:  Beginning Coordinates: N      W Ending Coordinates: N      W	Signature: Disposer	
<b>NON PCB OFFSITE DISPOSAL</b>	Storage Time:	Arrival Date:	Date Shipped:
<b>OFFSITE TSD</b>	Offsite TSD	Facility Name:	Facility Address:
TSD Process:		Landfill (D81): <input type="checkbox"/> Disposal Date Treatment (TO ___): <input type="checkbox"/> Treatment Date Specify Treatment Activity  Other ( ___ ): <input type="checkbox"/> Specify Activity	
<b>PCB OFFSITE DISPOSALS</b>	Storage Time:	Beginning Date:	Date Shipped:
<b>OFFSITE DISPOSAL:</b>	Offsite Disposal:	Facility Name:	Facility Address:

COMMENTS:

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9112100006

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>WA 789 000 3967</b>	Manifest Document No.	2. Page 1 of <b>1</b>	Information in the shaded areas is not required by Federal law.						
3. Generator's Name and Mailing Address <b>F. J. Orsag 2101M/200 East RHO 12-21B</b>				A. State Manifest Document Number							
4. Generator's Phone ( <b>509</b> ) <b>373-2354</b>				B. State Generator's ID							
5. Transporter 1 Company Name <b>Rockwell Hanford</b>		6. US EPA ID Number <b>WA 789 000 3967</b>		C. State Transporter's ID							
7. Transporter 2 Company Name <b>NA</b>		8. US EPA ID Number <b>NA</b>		D. Transporter's Phone <b>376-1420</b>							
9. Designated Facility Name and Site Address <b>Central Landfill Corrosive Trench</b>		10. US EPA ID Number <b>WA 789 000 3967</b>		E. State Transporter's ID							
				F. Transporter's Phone							
				G. State Facility's ID							
				H. Facility's Phone <b>(509) 376-6748</b>							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.	
a. <b>Waste Non-regulated empty drums</b>						<b>21</b>		<b>DM</b>	<b>153</b>	<b>Ft<sup>3</sup></b>	<b>None</b>
b.											
c.											
d.											
J. Additional Descriptions for Materials Listed Above <b>21 Empty 55 gallon drums.</b>						K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.											
Printed/Typed Name <b>F. J. Orsag</b>						Signature <i>[Signature]</i>			Date Month Day Year		
17. Transporter 1 Acknowledgement of Receipt of Materials											
Printed/Typed Name <b>TIMOTHY W. TOLSON</b>						Signature <i>[Signature]</i>			Date <b>1/16/85</b>		
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name						Signature			Date		
19. Discrepancy Indication Space											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name <b>DE PL...</b>						Signature <i>[Signature]</i>			Date <b>1/14/85</b>		

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GENERATOR

TRANSPORTER

FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>WA 789 000 3967</b>	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.				
3. Generator's Name and Mailing Address <b>F. J. Orsag 2101M/200 East RHO 12-21B</b>				A. State Manifest Document Number					
4. Generator's Phone ( <b>509</b> ) <b>373-2354</b>				B. State Generator's ID					
5. Transporter 1 Company Name <b>Rockwell Hanford</b>		6. US EPA ID Number <b>WA 789 000 3967</b>		C. State Transporter's ID					
7. Transporter 2 Company Name <b>NA</b>		8. US EPA ID Number <b>NA</b>		D. Transporter's Phone <b>376-1420</b>					
9. Designated Facility Name and Site Address <b>Central Landfill Corrosive Trench</b>				E. State Transporter's ID					
10. US EPA ID Number <b>WA 789 000 3967</b>				F. Transporter's Phone					
				G. State Facility's ID					
				H. Facility's Phone <b>(509) 376-6748</b>					
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. <b>Waste Non-regulated empty drums</b>					<b>21</b> <b>DM</b>		<b>153</b>	<b>Fe<sup>3</sup></b>	<b>None</b>
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above <b>21 Empty 55 gallon drums.</b>						K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.									
Printed/Typed Name <b>F. J. Orsag</b>						Signature <i>[Signature]</i>		Date	
								Month	Day
								Year	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name <i>[Signature]</i>						Signature <i>[Signature]</i>		Date	
								Month	Day
								Year	
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name						Signature		Date	
								Month	Day
								Year	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name <i>[Signature]</i>						Signature <i>[Signature]</i>		Date	
								Month	Day
								Year	

0000028

91121700028

GENERATOR TRANSPORTER FACILITY

## Internal Letter



Rockwell International

Date December 17, 1984

No . 05000-84-088

TO: (Name, Organization, Internal Address)

. F. J. Orsag  
 . 2101M/200 East

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

. H. A. Haerer  
 . Hazardous Waste Program  
 .  
 . 3-4216

Subject . DISPOSAL ANALYSIS NO. 12-21

Reference: Chemical Waste Disposal Request, November 15, 1984

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

All packaging, labeling and marking of the waste must be completed in accordance with the prescribed instructions, which are based on Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. Partially completed manifests are attached for your use.

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifests. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench or to the 2727-S storage facility for subsequent offsite disposal is a generator responsibility and may be implemented after compliance with instructions in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting A. D. Poor (6-1420).

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

H. A. Haerer, Project Manager  
 Hazardous Waste Program

HAH:LFL:ra

cc: G. R. Cox GRC  
 D. R. Groth DRG  
 L. F. Lust (2)

Att.

0000029

DISPOSAL ANALYSIS NO. 12-21

Offsite Disposal

Items listed for Offsite Disposal must be properly packaged, labeled and manifested for shipment to an offsite disposal facility in accordance with the State of Washington law (Chapter 173-303). The Hanford generator has the responsibility for packaging and for shipping the waste to the offsite staging facility, 2727-S/200 West. Offsite disposal shipments originating from this facility will be arranged by Rockwell.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for offsite disposal:

- o In accordance with 49 CFR 173.24, waste must be packaged in strong, tight, DOT-approved containers.
- o The DOT Label(s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell Central Stores.
- o The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- o The weight of the container, if over 110 pounds, must be marked on the container.
- o In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, and in a color which contrasts with the container.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifest has been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifest will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

0000030

DISPOSAL ANALYSIS NO. 12-21

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
----------	---------------	-------------------	------------------	---------------------------	-----------	------------	-------------------	-------------------	------------------------

OFFSITE DISPOSAL

		Waste Carbon Tetrachloride	ORM-A	UN1846	None	U211	5	55-gallon drum	Empty
--	--	----------------------------	-------	--------	------	------	---	----------------	-------

ONSITE DISPOSAL

		Waste, Non-Regulated, Empty Drums	None	None	None	None	21	55-gallon drum	Empty
--	--	-----------------------------------	------	------	------	------	----	----------------	-------

0000031

Complete unit and parts and forward to:  
 S. DU  
 2750E/200E  
 Rockwell

Rockwell Hanford Operations  
**CHEMICAL WASTE DISPOSAL REQUEST**

Logbook No. 17 11  
 Manifest(s) cross-ref.

Requested by F J Orsay Telephone Number 3-2354 Address 2101M/200 East Company Rockwell

Signature [Signature] Date 11/15/84

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No.	No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	2	55 gal	0	galvanized steel	Empty, open top. No hazardous material	-	None	MT	
2	5	55 gal	0	steel	Empty, bung-type drums. Carbon Tetrachloride	L	P	MT	
3	10	55 gal	0	steel	Empty, bung-type drums. Chevron insulating oil w/ petroleum distillate	L	P	MT	
4	1	55 gal	0	steel	Empty, bung-type drum. Chevron utility oil 68 (ISO-VG-68)	L	None	MT	
5	2	55 gal	0	steel	Empty, bung-type drum. Labels: "Johnson", "Benzamide"	L	None	MT	
6	2	55 gal	0	steel	Empty, bung-type drum. Ethylene glycol.	L	None	MT	
7	4	55 gal	0	steel	Empty, bung-type drums. No labels	L	None	MT	

0000032  
 Radiation Monitoring Release Survey Card Number (if applicable)

- Hazards**  
 Corrosive - C    Flammable - F  
 Oxidizer - O    Explosive - E  
 Poison - P

- Status**  
 Full - F            New (unused) - N  
 Partially Full - PF  
 Empty (<1 in.) - M.T.  
 Triple rinsed (empty drums) - TR  
 Reacted - Rx  
 Old (expired) - O

\*\*\* Indicate how many containers of this size are being offered for disposal



Frank,

I am sending a "Chemical Waste Disposal Request" for your signature. It accounts for all the drums in that area except the 3 drums full of mercury and sodium bulbs. It includes the two blue drums near the trucks (about 100 yards north of the others) and the 2 galvanized drums sitting by themselves west of the others.

There are these problems:

1. The two galvanized drums (one with a plastic liner) - item 1 have some glass and vapor bulbs that should be emptied into the 3 "electrical junk" drums. You may wish to save the plastic liner.

2. Four of the drums have liquid in them:  
 a "Monsanto" drum, an Clin Matheson ethylene glycol drum, an unlabeled green drum and a rusty drum in the SW corner labeled "ELECTRIC INSULATING OIL" "33". If the drums were opened, maybe all except the green one have less than one inch of liquid and can be classified as "empty". The green one, however, contains considerably more than one inch. Since this is an unlabeled drum

it presents a real problem. We can't call it empty and in order to dispose of it we need to identify the liquid in it. It needs to be opened and sampled. Then, depending upon the appearance of the sample, perhaps a couple of analyses can adequately identify it.

Call me re any questions you may have.

Len Lust

3-4802

0000035



Mausanto drum not empty

Green drum - no label not empty

See corner drum - FLEETS INSULATING CO. "32"

St. Matthews engine found not empty

9112190037

0000037

Frank,

I am sending a "Chemical Waste Disposal Request" for your signature. It accounts for all the drums in that area except the 3 drums full of mercury and sodium bulbs. It includes the two blue drums near the tracks (about 100 yards north of the others) and the 2 galvanized drums sitting by themselves west of the others.

There are these problems:

1. The two galvanized drums (one with a plastic liner) - I have some glass and vapor bulbs that should be emptied into the 3 "electrical junk" drums. You may wish to save the plastic liner.

2. Four of the drums have liquid in them: a "Monsanto" drum, an Ohio Matheson ethylene glycol drum, an unlabeled green drum and a rusty drum in the SW corner labeled "ELECTRIC INSULATING OIL" "33". If the drums were opened, maybe all except the green one have less than one inch of liquid and can be classified as "empty". The green one, however, contains considerably more than one inch. This is an unlabeled drum

0000028

it presents a real problem. We can't call it empty and in order to dispose of it we need to identify the liquid in it. It needs to be opened and sampled. Then, depending upon the appearance of the sample, perhaps a couple of analyses can adequately identify it.

Call me w any questions you may have.

Len Lust  
3-4862

11/15/84  
Len

Remaining barrels have now been verified as empty and you should be able to dispose of them according to plan.

Let me know if any problems remain, please

Frank Orszag  
3-2386000039

# BEST AVAILABLE COPY

8/11, 85

On Friday, November 8, 1985, trench #19-N, the Oxidizer Trench at the Central Landfill was excavated in order to remove drums containing sodium nitrite. All other waste drums previously manifested to this trench were also removed. The following information is to be attached to each hazardous waste manifest which was affected by the excavation.

Manifest #	Status of Waste Drums After Trench Excavation:
RHO-13-33	Drums disposed to trash trench, central landfill.
PNL-7-23	Drums were returned back to oxidizer trench.
UNC-12-15B	Drums were returned back to oxidizer trench.
RHO-5-31	13 drums of sodium nitrite were not located in the oxidizer trench. It is assumed that burial took place in the corrosive trench, since the manifest gives a disposal date to the chemical trench.
RHO-13-9	Drums were disposed to trash trench, central landfill.
RHO-11-39	Drums were disposed to trash trench, central landfill.
RHO-13-5	Drums were disposed to trash trench, central landfill.
RHO-11-3	Drums were disposed to trash trench, central landfill.
PNL-7-25	2 lab packs in this disposal request were not located in the oxidizer trench. It is assumed that past burial occurred in the corrosive trench, since the manifest shows disposal in the chemical trench.
RHO-10-31	Drums were disposed to trash trench, central landfill.
RHO-13-9	13 Drums of sodium nitrite were transported to the 2727-S storage facility/200 West because of their EHW designation. For the 10 drums of hydrated nickel listed on the manifest, status is: 1 drum was also transported to 2727-S, for storage (EHW because of carcinogenic waste designation). At time of transport drum was not known. The hydrated nickel drum was opened at 2727-S for clear identification. The other 9 drums of hydrated nickel were not found in the oxidizer trench. It is assumed they were buried in the corrosive trench.
RHO-9-33	Drums redispensed to the oxidizer trench.
PNL-5-17	Drums were disposed to trash trench, central landfill.

9112190040

0000040

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No <b>WA 789 000 8967</b>	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address <b>P. J. Hamacher 271-B/200 East</b>				A. State Manifest Document Number				
4. Generator's Phone ( 509 ) <b>373-2558</b>				B. State Generator's ID				
5. Transporter 1 Company Name <b>Rockwell Hanford</b>		6. US EPA ID Number <b>WA 789 000 8967</b>		C. State Transporter's ID				
7. Transporter 2 Company Name <b>NA</b>		8. US EPA ID Number <b>NA</b>		D. Transporter's Phone <b>376-1420</b>				
9. Designated Facility Name and Site Address <b>Central Landfill Corrosive Trench</b>				E. State Transporter's ID				
				F. Transporter's Phone				
				G. State Facility's ID				
				H. Facility's Phone <b>(509) 376-6748</b>				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity	14. Unit W/Vol	I. Waste No.
				No.	Type			
a. <b>Waste, Non-regulated empty drums</b>				<b>6</b>	<b>DM</b>	<b>34</b>	<b>Ft<sup>3</sup></b>	<b>None</b>
b.								
c.								
d.								
J. Additional Descriptions for Materials Listed Above					K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information								
16. <b>GENERATOR'S CERTIFICATION:</b> I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.								
Printed/Typed Name				Signature		Certified by		Date
						<i>[Signature]</i>		Month Day Year
						<b>L. F. LUST</b>		
17. Transporter 1 Acknowledgement of Receipt of Materials								
Printed/Typed Name <b>E. F. Rivas</b>				Signature <i>[Signature]</i>				Date
								Month Day Year
								<b>7 22 85</b>
18. Transporter 2 Acknowledgement of Receipt of Materials								
Printed/Typed Name				Signature				Date
								Month Day Year
19. Discrepancy Indication Space								
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.								
Printed/Typed Name <b>D E Phelps</b>				Signature <i>[Signature]</i>				Date
								Month Day Year
								<b>1 5 1 2 7 85</b>

9112170011

GENERATOR

TRANSPORTER

FACILITY

12-25-B

4-11-85

C. E. PHELPS

J. A. REDDICK (2750E/A-119)

Enclosed is a HAZARDOUS WASTE MANIFEST which has not been signed off as arriving at the LANDFILL, ALTHOUGH the TRANSPORTER picked it up. Will you please complete the form if you can? The top can be corrected if the Drums went to the Drum Storage AREA rather than the Corrosive TRENCH. Please return the completed manifest to me. Thanks for helping us get this straightened out. (We need the signature to know where those drums are.)

Thanks!

Julie Reddick

(ps: I've just joined Don Groth's Solid Waste Processing & Disposal Unit)

WE HAVE LIFE SAFETY FIRST

0000042

Rockwell Hanford Operations

**DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD**

**STORAGE/DISPOSAL ACTIVITY**

Onsite Disposal (D81):  
 Oxidizer Trench  
 Corrosive Trench  
 Asbestos Trench

Non-PCB Onsite Storage (SOI)/Offsite TSD:   
 PCB Onsite Storage/Offsite Disposal:

**ORIGINATOR**

End Function: **WD** Manifest Number: **RHO 12-25B**  
 Company: **Rockwell Hanford** Building/Area: **271-B/200 East**  
 Contact Person: **P. J. Hamacher**  
 Address/Phone: **271-B/200 East 373-2558**

**PHYSICAL DESCRIPTION**

Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	Non-regulated, empty drums (6)	None	None	127	34	271-B/200 E
2						
3						
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form.

Total Weight (Front & Back) 127 KG Total Volume (Front & Back) 34 FT<sup>3</sup>

**TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)**

ONSITE DISPOSAL: Disposal Date: \_\_\_\_\_ Signature: Disposer \_\_\_\_\_  
 Trench Location: \_\_\_\_\_ Beginning Coordinates: N \_\_\_\_\_ W \_\_\_\_\_  
 Ending Coordinates: N \_\_\_\_\_ W \_\_\_\_\_

NON PCB OFFSITE DISPOSAL  
 Storage Time: \_\_\_\_\_ Arrival Date: \_\_\_\_\_  
 Date Shipped: \_\_\_\_\_  
 Offsite TSD Facility Name: \_\_\_\_\_  
 Facility Address: \_\_\_\_\_  
 TSD Process: Landfill (D81):  Disposal Date  
 Treatment (TO \_\_\_\_):  Treatment Date  
 Specify Treatment Activity  
 Other (\_\_\_\_):   
 Specify Activity

PCB OFFSITE DISPOSALS  
 Storage Time: \_\_\_\_\_ Beginning Date: \_\_\_\_\_  
 Date Shipped: \_\_\_\_\_  
 Offsite Disposal: Facility Name: \_\_\_\_\_  
 Facility Address: \_\_\_\_\_

COMMENTS:

**0000043**

91121200013

Rockwell Hanford Operations

DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD

<b>STORAGE/DISPOSAL ACTIVITY</b>		<b>ORIGINATOR</b>	
Onsite Disposal (D81): <input type="checkbox"/> Oxidizer Trench <input checked="" type="checkbox"/> Corrosive Trench <input type="checkbox"/> Asbestos Trench		End Function: WDS3C	Manifest Number: RHO 12-25B
Non-PCB Onsite Storage (SOI)/Offsite TSD: <input type="checkbox"/> PCB Onsite Storage/Offsite Disposal: <input type="checkbox"/>		Company: Rockwell Hanford	Building/Area: 271-B/200 East
		Contact Person: P. J. Hamacher	
		Address/Phone: 271-B/200 East 373-2558	

PHYSICAL DESCRIPTION						
Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	Non-regulated, empty drums (6)	None	None	127	34	271-B/200 E
2						
3						
4						
5						
6						
7						
8						
9						
10						
For additional items, continue on the back of this form.				Total Weight (Front & Back) 127KG	Total Volume (Front & Back) 34 FT <sup>3</sup>	

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)			
ON-SITE DISPOSAL:	Disposal Date:		Signature: Disposer
	Trench Location:	Beginning Coordinates: N	W
		Ending Coordinates: N	W
NON PCB OFFSITE DISPOSAL	Storage Time:	Arrival Date:	
	Offsite TSD	Date Shipped:	
		Facility Name:	
		Facility Address:	
		TSD Process:	Landfill (D81): <input type="checkbox"/> Disposal Date Treatment (TO ___): <input type="checkbox"/> Treatment Date Specify Treatment Activity  Other ( ___ ): <input type="checkbox"/> Specify Activity
PCB OFFSITE DISPOSALS	Storage Time:	Beginning Date:	
	Offsite Disposal:	Date Shipped:	
		Facility Name:	
		Facility Address:	

COMMENTS: 0000044

91121900014

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. WA 789 000 8967		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.				
3. Generator's Name and Mailing Address P. J. Hamacher 271-B/200 East RHO 12-25B						A. State Manifest Document Number						
4. Generator's Phone (509) 373-2558						B. State Generator's ID						
5. Transporter 1 Company Name Rockwell Hanford			6. US EPA ID Number WA 789 000 8967			C. State Transporter's ID						
7. Transporter 2 Company Name NA			8. US EPA ID Number NA			D. Transporter's Phone 376-1420						
9. Designated Facility Name and Site Address Central Landfill Corrosive Trench						E. State Transporter's ID						
						F. Transporter's Phone						
						G. State Facility's ID						
						H. Facility's Phone (509) 376-6748						
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.			
a. Waste, Non-regulated empty drums					None None		6	DM	34	Ft <sup>3</sup>	None	
b.												
c.												
d.												
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above						
15. Special Handling Instructions and Additional Information												
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.												
Printed/Typed Name						Signature			Certified by		Date	
									<i>[Signature]</i>		Month Day Year	
									L. F. LUST			
17. Transporter 1 Acknowledgement of Receipt of Materials												
Printed/Typed Name						Signature			Date		Month Day Year	
E. E. Rivas						<i>[Signature]</i>			7		22 85	
18. Transporter 2 Acknowledgement of Receipt of Materials												
Printed/Typed Name						Signature			Date		Month Day Year	
19. Discrepancy Indication Space												
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.												
Printed/Typed Name						Signature			Date		Month Day Year	

9 1 1 2 1 1 0 0 0 1 5

0000045

# Internal Letter



# Rockwell International

Date December 26, 1984

No 05000-HAH-85-004

TO: *Name, Organization, Internal Address*

FROM: *Name, Organization, Internal Address, Phone*

P. J. Hamacher  
271-B/200 East

H. A. Haerer  
Hazardous Waste Program

3-4216

Subject: DISPOSAL ANALYSIS NO. 12-25

Reference: Chemical Waste Disposal Request January 10, 1985

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

All packaging, labeling and marking of the waste must be completed in accordance with the prescribed instructions, which are based on Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. Partially completed manifests are attached for your use.

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifests. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench or to the 2727-S storage facility for subsequent offsite disposal is a generator responsibility and may be implemented after compliance with instructions in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting A. D. Poor (6-1420).

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

H. A. Haerer, Project Manager  
Hazardous Waste Program

HAH:LFL:kh

cc: G. R. Cox *GRC*  
D. R. Groth *DG*  
L. F. Lust (2)  
H. C. Boynton

Att.

0000046

9112170046

DISPOSAL ANALYSIS NO. 12-25

Offsite Disposal

Items listed for Offsite Disposal must be properly packaged, labeled and manifested for shipment to an offsite disposal facility in accordance with the State of Washington law (Chapter 173-303). The Hanford generator has the responsibility for packaging and for shipping the waste to the offsite staging facility, 2727-S/200 West. Offsite disposal shipments originating from this facility will be arranged by Rockwell.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for offsite disposal:

- o In accordance with 49 CFR 173.24, waste must be packaged in strong, tight, DOT-approved containers. Item 3, a Flammable Liquid, must be in DOT Specification 17C or 17E steel drums.
- o The DOT Label(s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell Central Stores.
- o The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- o The total weight, if over 110 pounds, must be marked on the container.
- o In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, and in a color which contrasts with the container.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest and a Dangerous Waste Treatment, Storage and Disposal Record. These documents have been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the manifest in the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the documents will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

0000047

9112190047

## DISPOSAL ANALYSIS NO. 12-25

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
<u>OFFSITE DISPOSAL</u>									
1		Waste Di-2-Ethyl-hexyl phosphoric acid	Corrosive Material	NA1902	Corrosive	D002	4	55-gallon drum	55 gallons
2		Waste tributyl phosphate	None	None	None	WT02	4	55-gallon drum	55 gallons
3		Waste Isopropanol	Flammable Liquid	UN1219	Flammable Liquid	D001	4	55-gallon drum	55 gallons
6		Waste 1-1-1-Tri-chloroethane	ORM-A	UN2831	None	U226	14	55-gallon drum	Empty
<u>ONSITE DISPOSAL</u>									
4		Non-regulated empty drums	None	None	None	None	2	55-gallon drum	Empty
5		Non-regulated empty drums	None	None	None	None	4	35-gallon drum	Empty

0000048



Rockwell Hanford Operations

**DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD**

<b>STORAGE/DISPOSAL ACTIVITY</b>		<b>ORIGINATOR</b>	
Onsite Disposal (DBI): <input type="checkbox"/> Oxidizer Trench <input checked="" type="checkbox"/> Corrosive Trench <input type="checkbox"/> Asbestos Trench		End Function: <b>WD</b>	Manifest Number: <b>RHO 12-25B</b>
Non-PCB Onsite Storage (SOI)/Offsite TSD: <input type="checkbox"/> PCB Onsite Storage/Offsite Disposal: <input type="checkbox"/>		Company: <b>Rockwell Hanford</b>	Building/Area: <b>271-B/200 East</b>
		Contact Person: <b>P. J. Hamacher</b>	
		Address/Phone: <b>271-B/200 East 373-2558</b>	

PHYSICAL DESCRIPTION						
Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	Non-regulated, empty drums (6)	None	None	127	34	271-B/200 E
2						
3						
4						
5						
6						
7						
8						
9						
10						
For additional items, continue on the back of this form.				Total Weight (Front & Back) <b>127</b> KG	Total Volume (Front & Back) <b>34</b> FT <sup>3</sup>	

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)			
ON-SITE DISPOSAL:	Disposal Date:	Signature: Disposer	
	Trench Location:	Beginning Coordinates: N	W
		Ending Coordinates: N	W
NON PCB OFFSITE DISPOSAL	Storage Time:	Arrival Date:	
	Offsite TSD	Date Shipped:	
		Facility Name:	
		Facility Address:	
	TSD Process:	Landfill (DBI): <input type="checkbox"/> Disposal Date	
		Treatment (TO ___): <input type="checkbox"/> Treatment Date	
		Specify Treatment Activity	
		Other (___): <input type="checkbox"/>	
		Specify Activity	
PCB OFFSITE DISPOSALS	Storage Time:	Beginning Date:	
	Offsite Disposal:	Date Shipped:	
		Facility Name:	
		Facility Address:	

COMMENTS: 0000050

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. WA 789 000 8967	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.							
3. Generator's Name and Mailing Address P. J. Hamacher 271-B/200 East RHO 12-25B				A. State Manifest Document Number								
4. Generator's Phone ( 509 ) 373-2558				B. State Generator's ID								
5. Transporter 1 Company Name Rockwell Hanford		6. US EPA ID Number WA 789 000 8967		C. State Transporter's ID								
7. Transporter 2 Company Name NA		8. US EPA ID Number NA		D. Transporter's Phone 376-1420								
9. Designated Facility Name and Site Address Central Landfill Corrosive Trench				E. State Transporter's ID								
10. US EPA ID Number WA 789 000 8967				F. Transporter's Phone								
				G. State Facility's ID								
				H. Facility's Phone (509) 376-6748								
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.			
a. <input type="checkbox"/> HM Waste, Non-regulated empty drums					None None		6	DM	34	Ft <sup>3</sup>	None	
b.												
c.												
d.												
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above						
15. Special Handling Instructions and Additional Information												
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.												
Printed/Typed Name						Signature			Certified by		Date	
									<i>[Signature]</i>		Month Day Year	
									L. F. LUST			
17. Transporter 1 Acknowledgement of Receipt of Materials												
Printed/Typed Name						Signature			Date		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials												
Printed/Typed Name						Signature			Date		Month Day Year	
19. Discrepancy Indication Space												
J. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.												
Printed/Typed Name						Signature			Date		Month Day Year	
									0000051			

9112120005

Rockwell Hanford Operations

**DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD**

**STORAGE/DISPOSAL ACTIVITY**

Onsite Disposal (D81):  
 Oxidizer Trench  
 Corrosive Trench  
 Asbestos Trench

Non-PCB Onsite Storage (SOI)/Offsite TSD:   
 PCB Onsite Storage/Offsite Disposal:

**ORIGINATOR**

End Function: *WD*      Manifest Number: RHO 12-25A  
 Company: Rockwell Hanford      Building/Area: 271-B/200 East  
 Contact Person: P. J. Hamacher  
 Address/Phone: 271-B/200 East 373-2558

**PHYSICAL DESCRIPTION**

Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	Waste Di-2-Ethylhexyl phosphoric acid (4)	Corrosive Material	D002	835	29	271-B/200 E
2	Waste Tributyl phosphate(4)	None	WT02	835	29	271-B/200 E
3	Waste Isopropanol (4)	Flammable Liquid	D001	835	29	271-B/200 E
4	Waste 1-1-1-Trichloroethane (14)	ORM-A	U226	445	103	271-B/200 E
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form.

Total Weight (Front & Back) 2950 KG      Total Volume (Front & Back) 190 FT<sup>3</sup>

**TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)**

ON-SITE DISPOSAL:	Disposal Date:	Signature: Disposer		
	Trench Location:	Beginning Coordinates: N _____ W _____		
		Ending Coordinates: N _____ W _____		
NON PCB OFFSITE DISPOSAL	Storage Time:	Arrival Date:		
		Date Shipped:		
	Offsite TSD:	Facility Name:		
		Facility Address:		
		TSD Process:	Landfill (D81): <input type="checkbox"/> Disposal Date	
		Treatment (TO _____): <input type="checkbox"/> Treatment Date		
		Specify Treatment Activity		
		Other ( _____ ): <input type="checkbox"/>		
		Specify Activity		
PCB OFFSITE DISPOSALS	Storage Time:	Beginning Date:		
		Date Shipped:		
	Offsite Disposal:	Facility Name:		
		Facility Address:		

COMMENTS:

0000052

91121700012

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. WA 789 000 8967	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.			
J. Generator's Name and Mailing Address RHO 12-25A P. J. Hamacher 271-B/200 East Area				A. State Manifest Document Number				
4. Generator's Phone ( 509 ) 373-2558				B. State Generator's ID				
5. Transporter 1 Company Name Rockwell Hanford		6. US EPA ID Number WA 789 000 8967		C. State Transporter's ID				
7. Transporter 2 Company Name NA		8. US EPA ID Number NA		D. Transporter's Phone 376-1420				
9. Designated Facility Name and Site Address 2727-S/200 West		10. US EPA ID Number WA 789 000 8967		E. State Transporter's ID				
				F. Transporter's Phone				
				G. State Facility's ID				
				H. Facility's Phone (509) 373-3679				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity	14. Unit Wt/Vol	L. Waste No.
				No.	Type			
a.	Waste Di-2-ethylhexyl phosphoric acid	Corrosive Material	NA1902	4	DM	1837	P	D002
b.	Waste Tributyl phosphate	None	None	4	DM	1837	P	WT02
c.	Waste 1-1-1-Trichloroethane (Empty drums)	ORM-A	UN2831	14	DM	980	P	U226
d.	Waste Isopropanol	Flammable Liquid	UN1219	4	DM	1837	P	D001
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.								
Printed/Typed Name				Signature			Date	
				L.F. Lust				
17. Transporter 1 Acknowledgement of Receipt of Materials								
Printed/Typed Name				Signature			Date	
18. Transporter 2 Acknowledgement of Receipt of Materials								
Printed/Typed Name				Signature			Date	
19. Discrepancy Indication Space								
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.								
Printed/Typed Name				Signature			Date	
							00000531	

9112130003



9 1 1 2 1 7 7 0 0 5 5

Complete und parts and forward  
to SW. JU  
2750E/200E  
Rockwell

Rockwell Hanford Operations  
CHEMICAL WASTE DISPOSAL REQUEST

Logbook No. 12-25  
Manifest(s) cross-reference

Requested by Paul Hamacher Telephone Number 373-2558 Address 271-B, 200E Company Rockwell  
Signature Paul Hamacher Date 1/10/85

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No.	*** No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	4	55 gal.	220 gal.	Steel Drums	Corrosive NA 1902 2002 DI-2-ETHYLHEXYL PHOSPHORIC ACID	L	C, P	F	1837 lb 3 935 kg 29 Ft
2	4	55 gal.	220 gal.	Steel Drums	Oral rat 3000 mg/kg = Poison D W 102 2727-5 TRIBUTYL PHOSPHATE (Liquid)	L	C, P	F	1837 lb 3 735 kg 29 Ft
3	4	55 gal.	220 gal.	Steel Drums	Flammable Liquid UN 1219 FP 55F 170 17E ISOPROPYL ALCOHOL ANHYDROUS metal	L	F, C, P	F	1837 lb 3 835 kg 29 Ft
4	2	55 gal.	<2 gal.	Stainless steel Drums	NITRIC ACID Not regulated (MT, unused)	L	C, P	Single Rinse M.T.	140 lb 15 Ft 54 kg
5	4	35 gal.	<2 gal.	Steel Drums	Lanthanum/Neodymium (MT, unused) Not regulated	L	O	Single Rinse M.T.	140 lb 19 Ft 73 kg
6	14	55 gal.	<2 gal.	Steel Drums	1-1 Trichloroethane ORN-A INHIBITED 1,1,1- Chloroethene VG (TRICHLOROETHENE) UN 2831 No Label (1 2-6 EHW)	L	F, P	Single Rinse M.T.	980 lb 105 Ft 445 kg

0000055

Radiation Monitoring Release Survey Card Number (if applicable)

- Hazards**  
 Corrosive - C    Flammable - F  
 Oxidizer - O    Explosive - E  
 Poison - P
- \*\* Status**  
 Full - F            New (unused) - N  
 Partially Full - PF  
 Empty (<1 in.) - M.T.  
 Triple rinsed (empty drums) - TR  
 Reacted - Rx  
 Old (expired) - O
- \*\*\* Indicate how many containers of this size are being offered for disposal**

Complete un... ed parts and forward to: SWP&DU 2750E/200E Rockwell	Rockwell Han: Operations <b>CHEMICAL WASTE DISPOSAL REQUEST</b>	Logbook No. <b>12-1</b> Manifest(s) cross-reference	
Requested by <b>Paul Hamacher</b>	Telephone Number <b>373-2558</b>	Address <b>271-B, 200E</b>	Company <b>Rockwell</b>
Signature <b>Paul J. Hamacher</b> <i>[Signature]</i>		Date <b>1/10/85</b>	

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No.	*** No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	4	55gal.	220gal.	Steel Drums	DI-2-ETHYLHEXYL PHOSPHORIC ACID	L	C,P	F	
2	4	55gal.	220gal.	Steel Drums	TRIBUTYL PHOSPHATE	L	C,P	F	
3	4	55gal.	220gal.	Steel Drums	ISOPROPYL ALCOHOL ANHYDROUS	L	F,C,P	F	
4	2	55gal.	<2gal.	Stainless Steel Drums	NITRIC ACID	L	C,P	Single Rinse M.T.	
5	4	35gal.	<2gal.	Steel Drums	Lanthanum/Neodymium	L	O	Single Rinse M.T.	
6	14	55gal.	<2gal.	Steel Drums	Chlorothene VG (INHIBITED 1,1,1-TRICHLOROETHENE)	L	F,P	Single Rinse M.T.	

Radiation Monitoring Release Survey Card Number (if applicable)

<b>Hazards</b> Corrosive - C    Flammable - F Oxidizer - O    Explosive - E Poison - P	<b>** Status</b> Full - F            New (unused) - N Partially Full - PF Empty (<1 in.) - M.T. Triple rinsed (empty drums) - TR Reacted - Rx Old (expired) - O	<b>***</b> Indicate how many containers of this size are being offered for disposal
---	---	---

0000056



9 1 1 2 1 2 0 0 0 7 8

Complete unprinted parts and forward to:  
 6 JU LFL457  
 2780E/200E ← Rm A-105  
 Rockwell

Rockwell Hanford Operations  
**CHEMICAL WASTE DISPOSAL REQUEST**

Logbook No. 12-25  
 Manifest(s) cross-refer

Requested by Paul Hamacher Telephone Number 373-2801 Address 271B, Rm 211A, 2E Company RHO

Signature Paul J. Hamacher Date 11/07/84

**WASTE DESCRIPTION** (if more than 12 items, continue on the back of this form)

Item No.	No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	12	55 gal. Drums	~ 600 gal.	steel	DI-2-ETHYLHEXYL phosphoric Acid + TriButyl phosphate	L	C, P	F, P, F	
2	16	55 gal. Drums	-0-	steel	Chloroethene VG, Nitric Acid KJ 2975...	L	F, C, P	M.T.	
3	4	30 or 35 gal. Drums	-0-	steel	Lanthanum/Neodymium	L	F, P	M.T.	
4	5	55 gal. Drums	~ 230 gal.	steel	USED OIL	L, S	F	F, P, F	
5	5	30 gal. Trashcan	~ 75 gal.	steel	Sodium sulfate, Sodium Glucanate open top w/ lid	S	P	PF	
1		TBP Oral rat 3000 mg/kg = Poison		Not regulated					
2		di-2-ethyl phosphoric acid			DI-(2 ethylhexyl) phosphoric acid				
2		1-1-1 Trichloro ethane		ETW	ORM-A UN2831	None	u 226	Empty	
		Nitric Acid			Nitric Acid Mixture ( % )				
3									
4									
5		sodium gluconate - sodium sulfate	Not listed						

Radiation Monitoring Release Survey Card Number (if applicable)

11/27  
 called Paul:  
 Item  
 1 - 1 drum CE + 15 drums  
 3  
 5 - Flush pt, PCB, radio.  
 4 - Need Radio Assay and PCB anal.

**Hazards**  
 Corrosive - C Flammable - F  
 Oxidizer - O Explosive - E  
 Poison - P

**Status**  
 Full - F New (unused) - N  
 Partially Full - PF  
 Empty (<1 in.) - M.T.  
 Triple rinsed (empty drums) - TR  
 Reacted - Rx  
 Old (expired) - O

**\*\*\*** Indicate how many containers of this size are being offered for disposal

## DISPOSAL ANALYSIS NO. 12-25

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
<u>OFFSITE DISPOSAL</u>									
1	173-240	Waste Di-2-Ethyl-hexyl phosphoric acid	Corrosive Material	NA1902	Corrosive	D002	4	55-gallon drum	55 gallons
2		Waste tributyl phosphate	None	None	None	WT02	4	55-gallon drum	55 gallons
3	173-240	Waste Isopropanol	Flammable Liquid	UN1219	Flammable Liquid	D001	4	55-gallon drum	55 gallons
6	173-240	Waste 1-1-1-Tri-chloroethane	ORM-A	UN2831	None	U226	14	55-gallon drum	Empty
<u>ONSITE DISPOSAL</u>									
4		Non-regulated empty drums	None	None	None	None	2	55-gallon drum	Empty
5		Non-regulated empty drums	None	None	None	None	4	35-gallon drum	Empty

0000059

Rockwell

NAME OF CONTRACTOR

12-25

CONTROL NO

RHQ 85-217

CROSS CONTROL NO

# PROPERTY DISPOSAL REQUEST

## 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 USE ONLY TOTAL VALUE	PROPERTY MGT USE ONLY DISPOSE OF AS #
1	1 Lot	Drums	Miscellaneous Chemical Drums (Approx. 32 Drums)			#4 <del>#4</del>

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

REASON FOR DISPOSAL: (IF CONTAMINATED, ATTACH RADIATION SURVEY REPORT.)

Empty and full waste drums that require burial.

THE PROPERTY LISTED ABOVE -  IS  IS NOT - TOXIC OR HAZARDOUS TO HUMANS, ANIMALS OR THE ENVIRONS.

COMPONENT Fission Products Processing	DATE 3/21/85	LOCATION OF MATERIAL 271-B/200-E
ORIGINATOR Paul J. Hamacher	BUILDING 271-B	PHONE 3-2558
RM CLEARANCE FOR PUBLIC SALE	SURVEY NO.	DATE 2727-S/200-W

SIGNATURE OF REQUESTING AUTHORITY

### PART II - INVESTIGATION

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

### PART IV - APPROVAL

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

BY <i>Ma M M Canty</i>	DATE	SIGNATURE OF APPROVING OFFICIAL	DATE
---------------------------	------	---------------------------------	------

### PART III - DISPOSITION RECEIPT

### PART V - INVENTORY CONTROL

BY <i>Ray R. Cox</i>	DATE 3/21/85	IN THE CASE OF INVENTORY MATERIALS DESIGNATE BY ITEM NUMBER ABOVE ACCOUNT TO BE RELIEVED AND OFFSETTING ACCOUNT TO BE CHARGED		
DISPOSED OF PER INSTRUCTIONS IN PART I (BY)	DATE	ITEM NO.	DEBIT ACCOUNT	CREDIT ACCOUNT

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.

0000060

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>WA 789 000 8967</b>		Manifest Document No. <b>RHO 12-258</b>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address <b>P. J. Hamacher 271-B/200 East</b>						A. State Manifest Document Number				
4. Generator's Phone ( <b>509</b> ) <b>373-2558</b>						B. State Generator's ID				
5. Transporter 1 Company Name <b>Rockwell Hanford</b>				6. US EPA ID Number <b>WA 789 000 8967</b>		C. State Transporter's ID				
7. Transporter 2 Company Name <b>NA</b>				8. US EPA ID Number <b>NA</b>		D. Transporter's Phone <b>376-1420</b>				
9. Designated Facility Name and Site Address <b>Central Landfill Corrosive Trench</b>						E. State Transporter's ID				
10. US EPA ID Number <b>WA 789 000 8967</b>						F. Transporter's Phone				
						G. State Facility's ID				
						H. Facility's Phone <b>(509) 376-6743</b>				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. <b>Waste, Non-regulated empty drums</b>						No. <b>6</b> Type <b>DM</b>		<b>34</b>	<b>Ft<sup>3</sup></b>	<b>z None</b>
b.										
c.										
d.										
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.						Certified by		Date		
Printed/Typed Name				Signature		<b>L. F. Lust</b>		Month	Day	Year
17. Transporter 1 Acknowledgement of Receipt of Materials						Signature		Date		
Printed/Typed Name				Signature		Month		Day	Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Signature		Date		
Printed/Typed Name				Signature		Month		Day	Year	
19. Discrepancy Indication Space										
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						Signature		Date		
Printed/Typed Name				Signature		Month		Day	Year	

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>WA 789 000 3967</b>	Manifest Document No.	2. Page 1 of <b>1</b>	Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address <b>P. J. Hamacher 271-B/200 East</b>				RHO 12-258			A. State Manifest Document Number			
4. Generator's Phone ( <b>509</b> ) <b>373-2538</b>							B. State Generator's ID			
5. Transporter 1 Company Name <b>Rockwell Hanford</b>		6. US EPA ID Number <b>WA 789 000 3967</b>		C. State Transporter's ID			D. Transporter's Phone <b>376-1420</b>			
7. Transporter 2 Company Name <b>NA</b>		8. US EPA ID Number <b>NA</b>		E. State Transporter's ID			F. Transporter's Phone			
9. Designated Facility Name and Site Address <b>Central Landfill Corrosive Trench</b>		10. US EPA ID Number <b>WA 789 000 3967</b>		G. State Facility's ID			H. Facility's Phone <b>(509) 376-6743</b>			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers		13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	
a. <b>Waste, Non-regulated empty drums</b>					<b>6</b> <b>DR</b>		<b>34</b>	<b>PC</b>	<b>z None</b>	
b.										
c.										
d.										
J. Additional Descriptions for Materials Listed Above					K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.										
Printed/Typed Name					Signature			Certified by <b>L. F. Lust</b>		Date
										Month Day Year
17. Transporter 1 Acknowledgement of Receipt of Materials					Printed/Typed Name			Signature		Date
										Month Day Year
18. Transporter 2 Acknowledgement of Receipt of Materials					Printed/Typed Name			Signature		Date
										Month Day Year
19. Discrepancy Indication Space										
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.										
Printed/Typed Name					Signature			Date		Month Day Year
										Month Day Year

0000062

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. WA 789 000 8967	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.				
3. Generator's Name and Mailing Address K H Smith 105-N/100 N 373-4940				UNC 12-29B		A. State Manifest Document Number			
4. Generator's Phone ( 509 ) 373-4940				6. US EPA ID Number WA 789 000 8967		B. State Generator's ID			
5. Transporter 1 Company Name Rockwell Hanford				8. US EPA ID Number NA		C. State Transporter's ID			
7. Transporter 2 Company Name NA				10. US EPA ID Number WA 789 000 8967		D. Transporter's Phone 376-1420			
9. Designated Facility Name and Site Address Chemical Trench, Central Landfill				14. US EPA ID Number NA		E. State Transporter's ID			
						F. Transporter's Phone			
						G. State Facility's ID			
						H. Facility's Phone (509) 376-6748			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. Non-regulated Empty Drums						31	226	FT <sup>3</sup>	None
b. LOCATED IN DRUM STORAGE 7-23-85.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.									
Printed/Typed Name Richard L. Southam						Signature <i>Richard L. Southam</i>		Date 5/17/85	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name E. F. Ruvas						Signature <i>E. F. Ruvas</i>		Date 5/17/85	
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name						Signature		Date	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name D-E-Phelps						Signature <i>D E Phelps</i>		Date 5/17/85	

91121700013

GENERATOR TRANSPORTER FACILITY

9 1 1 2 1 7 0 0 0 6 4

0000064

CONDITIONAL RADIATION RELEASE

Instructions: <sup>31</sup> ~~2~~ empty barrels  
200% direct on all  
accessible surfaces

Date: 5-17-85 By: MBH / JH  
Radiation Monitoring

BL-6700-133 (10-77)

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>MA 789 000 8967</b>	Manifest Document No.	2. Page 1 of <b>1</b>	Information in the shaded areas is not required by Federal law.																
3. Generator's Name and Mailing Address <b>K H Smith 105-N/100 N 373-4940</b>				A. State Manifest Document Number																	
4. Generator's Phone ( <b>509</b> ) <b>373-4940</b>				B. State Generator's ID																	
5. Transporter 1 Company Name <b>Rockwell Hanford</b>		6. US EPA ID Number <b>MA 789 000 8967</b>		C. State Transporter's ID		D. Transporter's Phone <b>376-1420</b>															
7. Transporter 2 Company Name <b>NA</b>		8. US EPA ID Number <b>NA</b>		E. State Transporter's ID		F. Transporter's Phone															
9. Designated Facility Name and Site Address <b>Chemical Trench, Central Landfill</b>		10. US EPA ID Number <b>MA 789 000 8967</b>		G. State Facility's ID		H. Facility's Phone <b>(509) 376-6743</b>															
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.									
						a. <b>Non-regulated Empty Drums</b>		<b>None</b>		<b>None</b>		<b>31</b>		<b>DM</b>		<b>226</b>		<b>FT<sup>3</sup></b>		<b>None</b>	
						b.															
						c.															
						d.															
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above															
15. Special Handling Instructions and Additional Information																					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.																					
Printed/Typed Name <i>[Signature]</i>						Signature <i>[Signature]</i>						Date Month Day Year									
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name						Signature		Date Month Day Year							
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name						Signature		Date Month Day Year							
19. Discrepancy Indication Space																					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.																					
Printed/Typed Name <i>[Signature]</i>						Signature <i>[Signature]</i>						Date Month Day Year <b>5 17 86</b>									

0000065

Rockwell Hanford Operations

**DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD**

<b>STORAGE/DISPOSAL ACTIVITY</b>		<b>ORIGINATOR</b>	
Onsite Disposal (D81):	<input type="checkbox"/> Oxidizer Trench <input checked="" type="checkbox"/> Corrosive Trench <input type="checkbox"/> Asbestos Trench	End Function: <i>UN</i>	Manifest Number: <i>UNC-17-29B</i>
Non-PCB Onsite Storage (SOI)/Offsite TSD: <input type="checkbox"/>		Company: <i>UNC</i>	Building/Area: <i>105N/100N</i>
PCB Onsite Storage/Offsite Disposal: <input type="checkbox"/>		Contact Person: <i>K H Smith</i>	Address/Phone: <i>105N/100N</i>

PHYSICAL DESCRIPTION						
Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	<i>Non-regulated, empty drums (31)</i>	<i>None</i>	<i>None</i>	<i>986</i>	<i>226</i>	<i>105 N/100 N</i>
2						
3						
4						
5						
6						
7						
8						
9						
10						
For additional items, continue on the back of this form.				Total Weight (Front & Back) <i>986</i> KG	Total Volume (Front & Back) <i>226</i> FT <sup>3</sup>	

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)			
ON-SITE DISPOSAL:	Disposal Date:	Signature: Disposer	
	Trench Location:	Beginning Coordinates: N	W
		Ending Coordinates: N	W
NON PCB OFFSITE DISPOSAL	Storage Time:	Arrival Date:	
		Date Shipped:	
	Offsite TSD	Facility Name:	
		Facility Address:	
TSD Process:	Landfill (D81): <input type="checkbox"/>	Disposal Date:	
	Treatment (TO _____): <input type="checkbox"/>	Treatment Date:	
	Specify Treatment Activity:		
	Other (_____): <input type="checkbox"/>		
	Specify Activity:		
PCB OFFSITE DISPOSALS	Storage Time:	Beginning Date:	
		Date Shipped:	
	Offsite Disposal:	Facility Name:	
		Facility Address:	

COMMENTS: 0000066

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <i>WA 789 000 8967</i>		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.			
		3. Generator's Name and Mailing Address <i>KH Smith 105 N/125/100 N</i>				<i>UNC 12-388</i>		A. State Manifest Document Number		B. State Generator's ID	
4. Generator's Phone ( <i>509</i> ) <i>373-4940</i>				6. US EPA ID Number <i>WA 789 000 8967</i>		C. State Transporter's ID		D. Transporter's Phone <i>376-1420</i>		E. State Transporter's ID	
5. Transporter 1 Company Name <i>Rocwell Hanford</i>				8. US EPA ID Number		F. Transporter's Phone		G. State Facility's ID		H. Facility's Phone <i>(509) 378-6748</i>	
7. Transporter 2 Company Name				10. US EPA ID Number <i>WA 789 000 8967</i>		G. State Facility's ID		H. Facility's Phone		I. Waste No.	
9. Designated Facility Name and Site Address <i>Central Landfill Corrosive Trench</i>				10. US EPA ID Number		G. State Facility's ID		H. Facility's Phone		I. Waste No.	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol	
						No.		Type		Quantity	
a. <i>Waste Methyl Ethyl Ketone Flammable Liquid UN 1193</i>						<i>11 DM</i>		<i>80</i>		<i>3 Ft 0001</i>	
b.											
c.											
d.											
J. Additional Descriptions for Materials Listed Above <i>11 55-gal steel drums, empty</i>						K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.											
- Printed/Typed Name <i>KEN NETH H SMITH</i>						Signature <i>[Signature]</i>		Date <i>1 23 85</i>		Certified by <i>[Signature]</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials						Signature <i>J. A. Albridge</i>		Date <i>1 23 85</i>			
18. Transporter 2 Acknowledgement of Receipt of Materials						Signature		Date			
19. Discrepancy Indication Space											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name <i>DE PHILIPS</i>						Signature <i>[Signature]</i>		Date <i>1 23 85</i>			

0000067

OUTGOING LTR. NO.	
R84-4381	
INCOMING LTR. NO.	
ACT	
REPLY DUE	
DIST:	LYR. ENCL. APPR.
Asb, E.B.	
Bartholomew, D.C.	
Belfoatto, M.	
Carey, J.M.	
Crawford, A.C.	✓
Deichman, J.L.	
Di Pol, C.V.	
Donahue, J.W.	
Gimera, R.J.	
Gruhn, R.S.	
Hammond, R.D.	
Haineman, R.E.	
Kinzor, J.E.	
Knight, B.E.	✓
Larsen, M.P.	
Loren, P.G.	✓
Matt, J.G.	
McDermott, R.J.	
Opletz, L.R.	
Pascoe, K.I.	
Patterson, J.W.	✓
Perkins, J.O.	
Reiser, A.L.	
Rocher, J.H.	✓
Salino, C.M.	
Wed, V.R.	
Zahn, L.L.	
Contract Administrator	✓
Central Files	✓
DR Groth	✓✓
LH Rodgers	✓✓
L.F. Just (2)	✓
GR GRC	✓✓
DR Dresser	✓
DD Wadrich	✓
WF Haine	✓
MA Hoover	✓✓
CS Acade	✓
DATE	DEC 14 1984
34-6000-117 (1)	me

Rockwell Hanford Operations  
 Energy Systems Group  
 P.O. Box 800  
 Richland, WA 99352



In reply, refer to letter R84-4381

DEC 14 1984

Mr. K. H. Smith  
 105 N/125/100 N Area  
 UNC Nuclear Industries  
 Post Office Box 490  
 Richland, Washington 99352

Dear Mr. Smith:

DISPOSAL ANALYSIS NO. 12-33

Reference: Chemical Waste Disposal Request, November 16, 1984

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

All packaging, labeling and marking of the waste must be completed in accordance with the prescribed instructions, which are based on Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. A partially completed manifest is attached for your use.

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifest. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench or to the 2727-S storage facility for subsequent offsite disposal is a generator responsibility and may be implemented after compliance with instructions in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting A. D. Poor (6-1420).



Rockwell  
International

Mr. K. H. Smith

Page 2

DEC 14 1984

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

Very truly yours,

*H A Haerer*

H. A. Haerer, Project Manager  
Hazardous Waste Program

HAH:LFL:ra

Att.

91121430069

0000069

DISPOSAL ANALYSIS NO. 12-33

Offsite Disposal

Items listed for Offsite Disposal must be properly packaged, labeled and manifested for shipment to an offsite disposal facility in accordance with the State of Washington law (Chapter 173-303). The Hanford generator has the responsibility for packaging and for shipping the waste to the offsite staging facility, 2727-S/200 West. Offsite disposal shipments originating from this facility will be arranged by Rockwell.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for offsite disposal:

- o In accordance with 49 CFR 173.24, waste must be packaged in strong, tight, DOT-approved containers.
- o The DOT Label(s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell central stores.
- o The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.

Onsite Disposal

Items listed for Onsite Disposal must be properly packaged, labeled and manifested for disposal at the Hanford Nonradioactive Hazardous Waste Chemical Trench.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for onsite disposal:

- o The DOT Label(s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell Central Stores.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifest has been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifest will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

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91121700070

DISPOSAL ANALYSIS NO. 12-33

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
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OFFSITE DISPOSAL

1		Waste Hydrazine, Aqueous Solution	Corrosive Material	UN2030	Corrosive	U133	30	35-gallon Plastic	Empty
2		Waste Hydrazine, Aqueous Solution	Corrosive Material	UN2030	Corrosive	U133	3	55-gallon Plastic (2) or Steel (1)	Empty

ONSITE DISPOSAL

3		Waste Methyl Ethyl Ketone	Flammable Liquid	UN1193	Flammable Liquid	D001	11	55-gallon Steel	Empty
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0000071





<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>WA 789 000 8967</b>	Manifest Document No.		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address <b>RD Hensyel 337/300 Area w/B-79</b>					A. State Manifest Document Number						
4. Generator's Phone (509) <b>376-3743</b>					B. State Generator's ID						
5. Transporter 1 Company Name <b>Rockwell Hanford</b>					C. State Transporter's ID						
6. US EPA ID Number <b>WA 789 000 8967</b>					D. Transporter's Phone <b>376-1420</b>						
7. Transporter 2 Company Name <b>NA</b>					E. State Transporter's ID						
8. US EPA ID Number <b>NA</b>					F. Transporter's Phone						
9. Designated Facility Name and Site Address <b>Central Landfill Chemical Trench</b>					G. State Facility's ID						
10. US EPA ID Number <b>WA 789 000 8967</b>					H. Facility's Phone <b>(509) 376-6748</b>						
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers	13. Total	14. Unit	1. Waste No.	
						No.	Quantity	Wt/Vol			
	a.	<b>Non Regulated Empty Oil Drums</b>			<b>None</b>	<b>None</b>	<b>25</b>	<b>DM</b>	<b>182</b>	<b>Fl<sup>3</sup></b>	<b>None</b>
	b.										
	c.										
d.											
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above					
<b>No hazardous material</b>											
15. Special Handling Instructions and Additional Information											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.											
Printed/Typed Name <b>RD Hensyel</b>						Signature <i>[Signature]</i>		Date <b>12/18/84</b>		Approved by <i>[Signature]</i>	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials						Date				
	Printed/Typed Name <b>Timothy W Tobery</b>						Signature <i>[Signature]</i>		Date <b>4/30/85</b>		
	18. Transporter 2 Acknowledgement of Receipt of Materials						Date				
Printed/Typed Name						Signature		Date			
19. Discrepancy Indication Space											
FACILITY	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.										
	Printed/Typed Name <b>D E Phelps</b>						Signature <i>[Signature]</i>		Date <b>1/13/85</b>		

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>WA 789 000 8967</b>		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.			
		3. Generator's Name and Mailing Address <b>RD Heusyel 337/300 Area w/B-79 WHC 12-41 B</b>						A. State Manifest Document Number			
4. Generator's Phone (509) <b>376-3743</b>						B. State Generator's ID					
5. Transporter 1 Company Name <b>Rockwell Hanford</b>			6. US EPA ID Number <b>WA 789 000 8967</b>			C. State Transporter's ID		D. Transporter's Phone <b>376-1420</b>			
7. Transporter 2 Company Name <b>NA</b>			8. US EPA ID Number <b>NA</b>			E. State Transporter's ID		F. Transporter's Phone			
9. Designated Facility Name and Site Address <b>Central Landfill Chemical Trench</b>			10. US EPA ID Number <b>WA 789 000 8967</b>			G. State Facility's ID		H. Facility's Phone <b>(509) 376-6748</b>			
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.	
	a. <b>Non Regulated Empty Oil Drums</b>					<b>None</b>		<b>None</b>	<b>25 DM</b>	<b>182 FL<sup>3</sup></b>	<b>None</b>
	b.										
	c.										
	d.										
J. Additional Descriptions for Materials Listed Above <b>No hazardous material</b>						K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.											
Printed/Typed Name					Signature			Date			
					<b>Approved by L J Lust</b>			Month Day Year			
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials					Signature			Date		
	Printed/Typed Name								Month Day Year		
FACILITY	18. Transporter 2 Acknowledgement of Receipt of Materials					Signature			Date		
	Printed/Typed Name								Month Day Year		
19. Discrepancy Indication Space											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name					Signature			Date			
								Month Day Year			

0000075





Rockwell  
International

Mr. R. D. Hensyel

Page 2

DEC 14 1984

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

*H. A. Haerer*

H. A. Haerer, Project Manager  
Hazardous Waste Program

HAH:LFL:ra

Att.

91121990077

0000077

DISPOSAL ANALYSIS NO. 12-41

Offsite Disposal

Items listed for Offsite Disposal must be properly packaged, labeled and manifested for shipment to an offsite disposal facility in accordance with the State of Washington law (Chapter 173-303). The Hanford generator has the responsibility for packaging and for shipping the waste to the offsite staging facility, 2727-S/200 West. Offsite disposal shipments originating from this facility will be arranged by Rockwell.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for offsite disposal:

- o In accordance with 49 CFR 173.24, waste must be packaged in strong, tight containers.
- o The DOT label specified in this Disposal Analysis must be applied to each container.
- o The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- o In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable and in letters of a color which contrasts with the container.
- o The weight must be marked on the outside of each drum.
- o Bungs must be securely in place for transport.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifest has been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifest will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

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DISPOSAL ANALYSIS NO. 12-41

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAIN
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OFFSITE DISPOSAL

102		Waste Oil, Contaminated with Dichlorodifluoromethane	Combustible Liquid <i>PA 82 (2011-100)</i>	UN1028 <i>non toxic &amp; non corrosive</i>	None	U075	1	55-gallon steel drum	55 gallons
109		Flammable Liquid NOS	Flammable Liquid	UN1993	Flammable Liquid	D001	1	55-gallon steel drum	55 gallons

REUSE ONSITE FOR DUST CONTROL

101, 103-108, 110, 111, 113-123, 125-129		Waste Oil, NOS	Combustible Liquid	NA1270	Combustible Liquid	D001	25	55-gallon steel drum	55 gallons
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ONSITE DISPOSAL - CHEMICAL TRENCH

		Non-Regulated Empty Oil Drums	None	None	None	None	25	55-gallon steel drums	Empty
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6200009

Complete unneeded parts and forward to:  
 SWP&DU  
 2750E/200E  
 Rockwell

Rockwell Hanford Operations  
**CHEMICAL WASTE DISPOSAL REQUEST**

Logbook No. 12-41  
 Manifest(s) cross-reference

Requested by R. A. Demaree Telephone Number 6-3743 Address W/B 79 Company Westinghouse  
 Signature R. A. Demaree Date 11-13-84

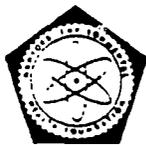
WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No.	No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	<del>25</del> 26	55 gal	<del>1375</del> 7430 gal	metal drums	Used oil, combustible	L	F	PF	
if oil is pumped I would like to get rid of empty drums									
eff	1	55 gal	55 gal	steel drum	Waste oil, contaminated w/ dichlorodifluoromethane				
eff	1	55 gal	55 gal	steel drum	Waste oil, flammable				

000000

Radiation Monitoring Release Survey Card Number (if applicable) Survey date of release

- Hazards**  
 Corrosive - C    Flammable - F  
 Oxidizer - O    Explosive - E  
 Poison - P
- Status**  
 Full - F            New (unused) - N  
 Partially Full - PF  
 Empty (< 1 in.) - M.T.  
 Triple rinsed (empty drums) - TR  
 Heated - HA  
 Old (expired) - O
- \*\*\*** Indicate how many containers of this size are being offered for disposal



# HANFORD ENVIRONMENTAL HEALTH FOUNDATION

CO 9142

November 13, 1984

Hanford Engineering Development Laboratory  
337 Building, 300 Area

Attn: R. D. Hensyel

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY ANALYSIS, PCB ANALYSIS, AND FLASHPOINT TEST

Following are the results of the gas chromatography/mass spectroscopy (GC/MS) analysis of selected samples, the PCB analysis, and flashpoint test of 27 liquid waste samples received October 8 and 9, 1984. PCB's were analyzed by gas chromatography using a capillary column and electron capture detector. The flashpoint test followed ASTM Method D93-80 using a Pensky-Marten closed cup tester. The reported PCB part per million (ppm) values are on a weight/weight basis.

Sample	GC/MS Results	ppm PCB's	Flashpoint °C
Waste Paint Thinner	Main constituents: xylene, toluene, ethoxyethyl acetate, 1,2,3-trimethylbenzene, ethylbenzene, N-butylacetate, ethyl acetate, acetone, naphthalene, decane	Not Anal.	Not Analyzed
101		<1	>100
102	Main constituents: dichlorodifluoromethane and aliphatic hydrocarbons	<1	*
103		<1	>100
104		<1	>100
105		<1	83 <i>191°F</i>
106		<1	>100
107		<1	>100
108		<1	>100
109	Main constituents: isopropanol, C9-C14 aliphatics, substituted cyclohexanes	<1	< 20 <i>Flammable</i>
110		<1	92
111		<1	89
113		<1	>100
114		<1	>100
115		<1	>100
116		<1	>100

*NT8050912  
TMM 10/20/84*

0000081

R. D. Hensy, HEDL

2

November 13, 1984

Sample	GC/MS Results	ppm PCB's	Flashpoint °C
117		<1	> 100
118		<1	> 100
119		<1	> 100
120		<1	> 100
121		<1	> 100
122		<1	> 100
123		<1	> 100
125		<1	> 100
126		<1	> 100
127	Main constituents: C <sub>8</sub> -C <sub>15</sub> aliphatic hydrocarbons, 2 & 3 ring naphthalenics xylene	<1	<u>60</u> <b>140°F</b>
128		<1	> 100
129	Main constituents: C <sub>11</sub> -C <sub>17</sub> aliphatic hydrocarbons, isopropanol, dimethyl naphthalene isomers	<1	<u>55</u> <b>131°F</b>

\*Fumes smothered flame at 20°C.

If you should have any questions, please contact us.

*H. L. Boorse*

H. L. Boorse  
Environmental Health Sciences

jt

0000082

9112120002

From: Chemistry & Analysis  
Phone: 376-3705  
Date: October 5, 1984  
Subject: FFTF Oil Samples of 10/01/84.

Westinghouse Hanford Company

To: RD Hensyel  
W/B-79

Results of total alpha and total beta measurements upon the twenty nine FFTF oil samples submitted to the laboratory on October 1st are tabulated below. Sample #112 was aqueous with only a trace of oil and was not analyzed. Sample #124 was 75% aqueous by volume; there was insufficient oil remaining for re-measurement of the positive beta result obtained.

<u>Sample</u>	<u>Total alpha</u> <u>α/min/ml</u>	<u>Total beta</u> <u>β/min/ml</u>
101	< 0.2	< 0.4
102	< 0.4	< 0.6
103	< 0.2	< 0.3
104	< 0.4	< 0.6
105	< 0.2	< 0.3
106	< 0.4	< 0.6
107	< 0.2	< 0.4
108	< 0.2	< 0.4
109	< 0.2	< 0.4
110	< 0.4	< 0.6
111	< 0.2	< 0.4
113	< 0.4	< 0.6
114	< 0.2	< 0.3
115	< 0.2	< 0.3
116	< 0.2	< 0.4
117	< 0.2	< 0.3
118	< 0.2	< 0.3
119	< 0.4	< 0.6
120	< 0.2	< 0.4
121	< 0.2	< 0.3
122	< 0.2	< 0.3
123	< 0.4	< 0.6
125	< 0.2	< 0.3
126	< 0.2	< 0.3
127	< 0.2	< 0.4
128	< 0.2	< 0.3
129	< 0.3	< 0.5

The reference date of the measurements is 10-05-84.

0000083

RD Hensyel  
10-5-84  
page 2

Gamma spectral analysis of the aqueous phase and the small amount of oil phase remaining in sample #124 indicates the probable presence of a small 1274.9Kev gamma component, most likely due to sodium-22.

*M R Weiler*

M R Weiler  
Chemistry & Analysis

MRW:mw

cc: file  
RG Ibatuan

0000084

91121700014



DISPOSAL ANALYSIS NO. 12-11

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
<u>OFFSITE DISPOSAL</u>									
102		Waste Oil, Contaminated with Dichlorodifluoromethane	Combustible Liquid	UN1028	None	U075	1	55-gallon steel drum	55 gallons
109		Flammable Liquid NOS	Flammable Liquid	UN1993	Flammable Liquid	D001	1	55-gallon steel drum	55 gallons

*FRANK McFARLAND will take the 25 DRUMS OF OIL REUSE ONSITE FOR DUST CONTROL TO THE 100 AREA FIRE STATION*

101, 103-108, 110, 111, 113-123, 125-129		Waste Oil, NOS	Combustible Liquid	NA1270	Combustible Liquid	D001	25	55-gallon steel drum	55 gallons
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ONSITE DISPOSAL - CHEMICAL TRENCH

Non-Regulated Empty Oil Drums		None	None	None	None	None	25	55-gallon steel drums	Empty
-------------------------------	--	------	------	------	------	------	----	-----------------------	-------

9800000

*These empties will result from the 25 oil drums taken.*

Complete un... ed parts and forward  
to: SWP&DU  
2750E/200E  
Rockwell

Rockwell Han... Operations  
CHEMICAL WASTE DISPOSAL REQUEST

Logbook No. 12-41  
Manifest(s) cross reference

Requested by R D Henschel Telephone Number 6-3743 Address W/B 79 Company Westinghouse  
Signature R D Henschel Date 11-13-84

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No.	No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	<del>25</del> <sup>eff</sup> 26	55 gal	<del>1375</del> <sup>eff</sup> 7430 gal	metal drums	Used oil, combustible	L	F	PF	
if oil is pumped I would like to get rid of empty drums									
eff	1	55 gal	55 gal	steel drum	waste oil, contaminated w/ dichlorodifluoro methane				
eff	1	55 gal	55 gal	steel drum	Waste oil, flammable				

Application Monitoring Release Survey Card Number (if applicable) Survey date of release

- Hazards**  
Corrosive - C    Flammable - F  
Oxidizer - O    Explosive - E  
Poison - P
- Status**  
Full - F                      New (unused) - N  
Partially Full - PF  
Empty (<1 in.) - M.T.  
Triple rinsed (empty drums) - TR  
Reacted - RA  
Old (expired) - O
- \*\*\*** Indicate how many containers of this size are being offered for disposal



# HANFORD ENVIRONMENTAL HEALTH FOUNDATION

CO 9142

November 13, 1984

Hanford Engineering Development Laboratory  
337 Building, 300 Area

Attn: R. D. Hensyel

## GAS CHROMATOGRAPHY/MASS SPECTROSCOPY ANALYSIS, PCB ANALYSIS, AND FLASHPOINT TEST

Following are the results of the gas chromatography/mass spectroscopy (GC/MS) analysis of selected samples, the PCB analysis, and flashpoint test of 27 liquid waste samples received October 8 and 9, 1984. PCB's were analyzed by gas chromatography using a capillary column and electron capture detector. The flashpoint test followed ASTM Method D93-80 using a Pensky-Marten closed cup tester. The reported PCB part per million (ppm) values are on a weight/weight basis.

<u>Sample</u>	<u>GC/MS Results</u>	<u>ppm PCB's</u>	<u>Flashpoint °C</u>
Waste Paint Thinner	Main constituents: xylene, toluene, ethoxyethyl acetate, 1,2,3-trimethylbenzene, ethylbenzene, N-butylacetate, ethyl acetate, acetone, naphthalene, decane	Not Anal.	Not Analyzed
101		<1	>100
102	Main constituents: dichlorodifluoromethane and aliphatic hydrocarbons	<1	*
103		<1	>100
104		<1	>100
105		<1	83 <del>101</del> °F
106		<1	>100
107		<1	>100
108		<1	>100
109	Main constituents: isopropanol, C9-C14 aliphatics, substituted cyclohexanes	<1	< 20 <del>53</del> °F
110		<1	92
111		<1	89
113		<1	>100
114		<1	>100
115		<1	>100
116		<1	>100



R. D. Hensyel, HEDL

2

November 13, 1984

Sample	GC/MS Results	ppm PCB's	Flashpoint °C
117		< 1	> 100
118		< 1	> 100
119		< 1	> 100
120		< 1	> 100
121		< 1	> 100
122		< 1	> 100
123		< 1	> 100
125		< 1	> 100
126		< 1	> 100
127	Main constituents: C <sub>8</sub> -C <sub>15</sub> aliphatic hydrocarbons, 2 & 3 ring naphthalenics xylene	< 1	<u>60</u> <del>140° F</del>
128		< 1	> 100
129	Main constituents: C <sub>11</sub> -C <sub>17</sub> aliphatic hydrocarbons, isopropanol, dimethyl naphthalene isomers	< 1	<u>55</u> <del>131° F</del>

\*Fumes smothered flame at 20°C.

If you should have any questions, please contact us.

*H. L. Boorse*

H. L. Boorse  
Environmental Health Sciences

jt

0000088

From: Chemistry & Analysis  
Phone: 376-3705  
Date: October 5, 1984  
Subject: FFTF Oil Samples of 10/01/84.

Westinghouse Hanford Company

To: RD Hensyel  
W/B-79

Results of total alpha and total beta measurements upon the twenty nine FFTF oil samples submitted to the laboratory on October 1st are tabulated below. Sample #112 was aqueous with only a trace of oil and was not analyzed. Sample #124 was 75% aqueous by volume; there was insufficient oil remaining for re-measurement of the positive beta result obtained.

<u>Sample</u>	<u>Total alpha</u> <u>α/min/ml</u>	<u>Total beta</u> <u>β/min/ml</u>
101	< 0.2	< 0.4
102	< 0.4	< 0.6
103	< 0.2	< 0.3
104	< 0.4	< 0.6
105	< 0.2	< 0.3
106	< 0.4	< 0.6
107	< 0.2	< 0.4
108	< 0.2	< 0.4
109	< 0.2	< 0.4
110	< 0.4	< 0.6
111	< 0.2	< 0.4
113	< 0.4	< 0.6
114	< 0.2	< 0.3
115	< 0.2	< 0.3
116	< 0.2	< 0.4
117	< 0.2	< 0.3
118	< 0.2	< 0.3
119	< 0.4	< 0.6
120	< 0.2	< 0.4
121	< 0.2	< 0.3
122	< 0.2	< 0.3
123	< 0.4	< 0.6
125	< 0.2	< 0.3
126	< 0.2	< 0.3
127	< 0.2	< 0.4
128	< 0.2	< 0.3
129	< 0.3	< 0.5

The reference date of the measurements is 10-05-84.

0000089

RD Hensyel  
10-5-84  
page 2

Gamma spectral analysis of the aqueous phase and the small amount of oil phase remaining in sample #124 indicates the probable presence of a small 1274.9Kev gamma component, most likely due to sodium-22.

*M R Weiler*

M R Weiler  
Chemistry & Analysis

MRW:mw

cc: file  
RG Ibatuan

0000090.

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>MA 789 000 8967</b>		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address <b>R D Hensye1 337/300 Area W/B-79</b>						A. State Manifest Document Number							
4. Generator's Phone ( <b>509</b> ) <b>376 3743</b>						B. State Generator's ID							
5. Transporter 1 Company Name <b>Rockwell Hanford</b>			6. US EPA ID Number <b>MA 789 000 8967</b>			C. State Transporter's ID							
7. Transporter 2 Company Name <b>NA</b>			8. US EPA ID Number <b>NA</b>			D. Transporter's Phone <b>376-1420</b>							
9. Designated Facility Name and Site Address <b>2727-S/200 West</b>			10. US EPA ID Number <b>MA 789 800 8967</b>			E. State Transporter's ID							
						F. Transporter's Phone							
						G. State Facility's ID							
						H. Facility's Phone <b>(509) 373-3679</b>							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total		14. Unit		15. Waste No.	
						No.		Type		Quantity		Wt/Vol	
a. <b>Waste Oil, Contaminated w/ Diclrodifluoromethane</b> <b>Combustible Liquid</b> <b>UN1028</b>						<b>1</b> <b>DM</b>		<b>490</b>		<b>P</b>		<b>U075</b>	
b. <b>Flammable Liquid, NOS</b> <b>Flammable Liquid</b> <b>Un1993</b>						<b>1</b> <b>DM</b>		<b>490</b>		<b>P</b>		<b>D001</b>	
c.													
d.													
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above							
<b>Total Waste: 110 gallons (liquid)</b>													
15. Special Handling Instructions and Additional Information													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.													
Printed/Typed Name <b>R D Hensye1</b>						Signature <i>[Signature]</i>			Date <b>12/1/84</b>				
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name <b>J. H. ARMSTRONG</b>						Signature <i>[Signature]</i>			Date <b>12/1/84</b>				
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name						Signature			Date				
19. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name <b>GARY R. COX</b>						Signature <i>[Signature]</i>			Date <b>12/21/84</b>				

9112190002

GENERATOR

TRANSPORTER

FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <i>WA 781 000 8167</i>		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
		3. Generator's Name and Mailing Address <i>RD Hensgel 337/340 Area W/B-77</i>				A. State Manifest Document Number		B. State Generator's ID	
4. Generator's Phone ( <i>509</i> ) <i>376-3743</i>				5. Transporter 1 Company Name <i>Rockwell Hazard</i>		6. US EPA ID Number <i>WA 781 000 8167</i>		C. State Transporter's ID	
7. Transporter 2 Company Name <i>VA</i>				8. US EPA ID Number <i>VA</i>		D. Transporter's Phone <i>371-1420</i>		E. State Transporter's ID	
9. Designated Facility Name and Site Address <i>Cont of Landfill Chemical Toxic</i>				10. US EPA ID Number <i>WA 781 000 8167</i>		F. Transporter's Phone		G. State Facility's ID	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity		14. Unit Wt/Vol	
				No.		Type		Waste No.	
HM		a. <i>New 15-gallon Empty Oil Drums</i>		<i>None</i>		<i>None</i>		<i>None</i>	
		b.							
		c.							
		d.							
15. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above			
<i>N. h. ...</i>									
15. Special Handling Instructions and Additional Information									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.									
Printed/Typed Name <i>RD Hensgel</i>				Signature <i>[Signature]</i>				Date <i>12 12 84</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name <i>Timothy W Tokery</i>				Signature <i>[Signature]</i>				Date <i>4 3 85</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name				Signature				Date	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name <i>D E ...</i>				Signature <i>[Signature]</i>				Date <i>1 1 85</i>	

91121100003

GENERATOR

TRANSPORTER

FACILITY



Rockwell Hanford Operations  **DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD**

<b>STORAGE/DISPOSAL ACTIVITY</b>		<b>ORIGINATOR</b>	
Onsite Disposal (D81):	<input type="checkbox"/> Oxidizer Trench <input checked="" type="checkbox"/> Corrosive Trench <input type="checkbox"/> Asbestos Trench	End Function: <b>B 53100</b>	Manifest Number: <b>RHO-12-43B</b>
		Company: <b>RHO</b>	Building/Area: <b>212P/600</b>
Non-PCB Onsite Storage (SOI)/Offsite TSD: <input type="checkbox"/>		Contact Person: <b>RF Grelzinger</b>	
PCB Onsite Storage/Offsite Disposal: <input type="checkbox"/>		Address/Phone: <b>3-3806</b>	

12-43B

**PHYSICAL DESCRIPTION**

Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	<i>Nonregulated empty drums</i>	<i>None</i>	<i>None</i>	<i>127</i>	<i>29</i>	<i>212P/600</i>
2						
3						
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form.

Total Weight (Front & Back) 1 KG      Total Volume (Front & Back) 29 FT<sup>3</sup>

**TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)**

ONSITE DISPOSAL: Disposal Date: 1/7/85      Signature: Disposer

Trench Location:      Beginning Coordinates: N      W  
Ending Coordinates: N      W

**NON PCB OFFSITE DISPOSAL**

Storage Time:      Arrival Date:      Date Shipped:

Offsite TSD:      Facility Name:      Facility Address:

TSD Process:      Landfill (D81):  Disposal Date  
Treatment (TO \_\_\_\_\_):  Treatment Date  
Specify Treatment Activity

Other (\_\_\_\_\_):   
Specify Activity:

**PCB OFFSITE DISPOSALS**

Storage Time:      Beginning Date:      Date Shipped:

Offsite Disposal:      Facility Name:      Facility Address:

COMMENTS: 0000093

9112190094

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>WA 789 000 8967</b>	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.				
3. Generator's Name and Mailing Address <b>R. F. Gretzinger 2101M/1414B/200 East</b>				A. State Manifest Document Number <b>RHO 12-43B</b>					
4. Generator's Phone ( )				B. State Generator's ID					
5. Transporter 1 Company Name <b>Rockwell Hanford</b>		6. US EPA ID Number <b>WA 789 000 8967</b>		C. State Transporter's ID					
7. Transporter 2 Company Name <b>NA</b>		8. US EPA ID Number <b>NA</b>		D. Transporter's Phone <b>376-1420</b>					
9. Designated Facility Name and Site Address <b>Central Landfill Chemical Trench</b>		10. US EPA ID Number <b>WA 789 000 8967</b>		E. State Transporter's ID					
				F. Transporter's Phone					
				G. State Facility's ID					
				H. Facility's Phone <b>(509) 376-6748</b>					
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers	13. Total	14. Unit	15. Waste No.
						No.	Quantity	Wt/Vol	
a. <b>Waste Non-regulated Empty drums</b>						<b>4</b>	<b>29</b>	<b>Ft<sup>3</sup></b>	<b>None</b>
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above <b>4 Empty drums. Weight 300 pounds Volume 29 Ft<sup>3</sup></b>						K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.						Approved by			
Printed/Typed Name <b>R.F. Gretzinger</b>			Signature <i>R.F. Gretzinger</i>			Date <b>1 17 85</b>			
17. Transporter 1 Acknowledgement of Receipt of Materials						Date			
Printed/Typed Name <b>J.A. Abldige</b>			Signature <i>J.A. Abldige</i>			Date <b>1 11 85</b>			
18. Transporter 2 Acknowledgement of Receipt of Materials						Date			
Printed/Typed Name			Signature			Date			
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						Date			
Printed/Typed Name <b>D.F. Phelps</b>			Signature <i>D.F. Phelps</i>			Date <b>1 10 85</b>			

9112170005

Internal Letter



Rockwell International

Date

December 26, 1984

No

TO

Name Organization Internal Address

FROM:

Name Organization Internal Address Phone

R. F. Gretzinger  
2101M/141B/200 East

H. A. Haerer  
Hazardous Waste Program

3-4216

Subject

DISPOSAL ANALYSIS NO. 12-43

Reference: Chemical Waste Disposal Request November 30, 1984

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

All packaging, labeling and marking of the waste must be completed in accordance with the prescribed instructions, which are based on Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. Partially completed manifests are attached for your use.

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifests. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench or to the 2727-S storage facility for subsequent offsite disposal is a generator responsibility and may be implemented after compliance with instructions in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting A. D. Poor (6-1420).

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

H. A. Haerer, Project Manager  
Hazardous Waste Program

HAH:LFL:kh

cc: G. R. Cox *GRC*  
D. R. Groth *DRG*

Att.

L. F. Lust (2)

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91121700076

DISPOSAL ANALYSIS NO. 12-43

Offsite Disposal

Items listed for Offsite Disposal must be properly packaged, labeled and manifested for shipment to an offsite disposal facility in accordance with the State of Washington law (Chapter 173-303). The Hanford generator has the responsibility for packaging and for shipping the waste to the offsite staging facility, 2727-S/200 West. Offsite disposal shipments originating from this facility will be arranged by Rockwell.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for offsite disposal:

- o In accordance with 49 CFR 173.24, waste must be packaged in strong, tight, DOT-approved containers.
- o The DOT Label(s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell Central Stores.
- o The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- o The total weight, if over 110 pounds, must be marked on the container.
- o In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, and in a color which contrasts with the container.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifest has been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifest will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

0000086

9112120007

DISPOSAL ANALYSIS NO. 12-43

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
<u>OFFSITE DISPOSAL</u>									
	///	Trichloroethylene	ORM-A	UN1710	None	U228	5	55-gallon steel drum	Empty
		Pentachlorophenol	ORM-E	NA2020	None	U242	5	55-gallon steel drum	Empty 55 gal ef
<u>ONSITE DISPOSAL</u>									
		Non-Regulated Empty Drums	None	None	None	None	4	55-gallon steel drum	Empty

0000097



Complete und parts and forward  
to: SW&DU  
2750E/200E  
Rockwell

Rockwell Hanfr Operations  
CHEMICAL WASTE DISPOSAL REQUEST

Logbook No. 12 - 3  
Manifest(s) cross-reference

Requested by R F Gretzinger Telephone Number 3-3806 Address 200 East 1418/201M Company RHO

Signature Robert F. Gretzinger Date 11/30/80

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No.	No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	4	55 gal	0	steel	Non hazardous material	L	None	MT	
2	5	55 gal	0	steel	Trichloroethylene	L	P	MT	
3	5	55 gal	0	Steel	Penta Plus 40 (Pentachlorophenol 35.3%, other chlorinated organics 4.1%, petroleum solvent 59%, next ingredients 1.6%)	L	P	full MT	
2				ORM-A	UN1710 None U228 E H10	C, H, +			
3				ORM-E	NA 2020 None U 242 E H10	A, H			

Radiation Monitoring Release Survey Card Number (if applicable)

- \* Hazards  
Corrosive - C Flammable - F  
Oxidizer - O Explosive - E  
Poison - P
- \*\* Status  
Full - F New (unused) - N  
Partially Full - PF  
Empty (<1 in.) - M.T.  
Triple rinsed (empty drums) - TR  
Reacted - Rx  
Old (expired) - O
- \*\*\* Indicate how many containers of this size are being offered for disposal

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<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>MA 789 000 8967</b>	Manifest Document No. <b>RD 12-435 A</b>	2. Page 1 of <b>1</b>	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <b>R. F. Gretzinger 2101M/141B/200 East</b>				A. State Manifest Document Number		
4. Generator's Phone <b>(509) 373-3806</b>				B. State Generator's ID		
5. Transporter 1 Company Name <b>Rockwell Hanford</b>		6. US EPA ID Number <b>MA 789 000 8967</b>		C. State Transporter's ID		
7. Transporter 2 Company Name <b>NA</b>		8. US EPA ID Number <b>NA</b>		D. Transporter's Phone <b>376-1420</b>		
9. Designated Facility Name and Site Address <b>2727S/200 West</b>		10. US EPA ID Number <b>MA789 000 8967</b>		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone <b>(509) 373-3579</b>		
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
	a.	<b>Waste Trichloroethylene ORM-A UN1710</b>	<b>5 DM</b>	<b>375</b>	<b>P</b>	<b>U228</b>
	b.	<b>Waste Pentachlorophenol (Penta Plus 40) ORM-E NA2020</b>	<b>5 DM</b>	<del>375</del> <b>375</b>	<b>P</b>	<b>U242</b>
	c.					
	d.					
J. Additional Descriptions for Materials Listed Above <b>10 Empty drums. HM. Weight <sup>475</sup> 750 pounds Volume <sup>73</sup> cubic feet</b>				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information <i>2 drums of both are 200 lbs. 2 drums of both are 200 lbs.</i>						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.						
Printed/Typed Name <b>R.F. Gretzinger</b>				Signature <i>R.F. Gretzinger</i>		Date Month Day Year
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials				Date	
	Printed/Typed Name		Signature		Month Day Year	
	18. Transporter 2 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space						
FACILITY	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					Date
	Printed/Typed Name				Signature <i>W. Boyer for GRCox</i>	

0000100

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. MA 7-11-11	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address HARVARD 1111 1st St Cambridge MA 02138				A. State Manifest Document Number		
4. Generator's Phone (781) 495-7111				B. State Generator's ID		
5. Transporter 1 Company Name HARVARD UNIVERSITY		6. US EPA ID Number MA 7-11-11		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone		
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers	13. Total Quantity	14. Unit Wt/Vol
				No.	Type	Waste No.
a. HM Acetic Acid, 100% N				1	Drum	1
b. HM Acetic Acid, 100% N				1	Drum	1
c.						
d.						
J. Additional Descriptions for Materials Listed Above Total volume 311 gal				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.						
Printed/Typed Name				Signature		Date Month Day Year
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date Month Day Year
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date Month Day Year
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name				Signature		Date Month Day Year

0000101

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>MA 789 000 8967</b>	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address <b>M. Malarchick 1171 Bldg/1100 Area</b>				A. State Manifest Document Number <b>890 13-11</b>				
4. Generator's Phone ( <b>509</b> ) <b>376-6654</b>				B. State Generator's ID				
5. Transporter 1 Company Name <b>Rockwell Hanford</b>		6. US EPA ID Number <b>MA 789 000 8967</b>		C. State Transporter's ID				
7. Transporter 2 Company Name <b>MA</b>		8. US EPA ID Number <b>MA</b>		D. Transporter's Phone <b>376-1420</b>				
9. Designated Facility Name and Site Address <b>Central Landfill Chemical Trench</b>				E. State Transporter's ID				
				F. Transporter's Phone				
				G. State Facility's ID				
				H. Facility's Phone <b>(509) 376-6748</b>				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers	13. Total Quantity	14. Unit Wt/Vol		
				No.	Type	Waste No.		
a.	<b>Waste Diuron (Spike 80 W)</b> <i>not correct</i>		<b>ORM-E</b>	<b>MA2767</b>	<del>20</del> <b>23</b>	<b>CF</b>	<del>70</del> <b>21</b> <b>ft<sup>3</sup></b>	<b>None</b>
b.	<del>Waste Pesticide, Water reactive (OUST)</del>		<del>ORM-C</del>	<del>MA2270</del>	<del>48</del>	<del>CF</del>	<del>21</del> <b>ft<sup>3</sup></b>	<del>None</del>
c.								
d.								
J. Additional Descriptions for Materials Listed Above <b>Empty plastic bags inside fiberboard cartons</b>				K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.								
Printed/Typed Name				Signature		Date		
				<i>approved by</i> <b>L. J. Rust</b>		Month Day Year <b>1 4 85</b>		
17. Transporter 1 Acknowledgement of Receipt of Materials								
Printed/Typed Name				Signature		Date		
<b>E. F. R...</b>				<i>E. F. R...</i>		Month Day Year <b>1 4 85</b>		
18. Transporter 2 Acknowledgement of Receipt of Materials								
Printed/Typed Name				Signature		Date		
						Month Day Year		
19. Discrepancy Indication Space								
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.								
Printed/Typed Name				Signature		Date		
<b>D. E. Ph...</b>				<i>D. E. Ph...</i>		Month Day Year <b>1 4 85</b>		

0000102

91121900193

GENERATOR

TRANSPORTER

FACILITY

# Internal Letter



Rockwell International

Date December 10, 1984

No . 05000-84-087

TO: (Name, Organization, Internal Address)

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

M. Malarchick  
1171/100 Area

H. A. Haerer  
Hazardous Waste Program

3-4216

Subject . DISPOSAL ANALYSIS NO. 13-11

Reference: Chemical Waste Disposal Request, November 28, 1984

The Solid Waste Processing & Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

It has been determined that the waste described in the referenced Disposal Request consists entirely of non-regulated empty containers which should be deposited in the Hanford Nonradioactive Chemical Trench.

Arranging for transportation of waste packages directly to the Chemical Trench is a generator responsibility and may be implemented following compliance with the disposal instructions for Onsite Disposal in the subject Disposal Analysis, completion of the attached Uniform Hazardous Waste Manifest and certification by SWP&DU. Transportation arrangements can be made by contacting A. D. Poor (6-1420).

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

H. A. Haerer  
Project Manager  
Hazardous Waste Program

HAH:LFL:ra

Att.

cc: G. R. Cox *GRC*  
D. R. Groth *D.R.G.*  
L. F. Lust (2)

0000103

DISPOSAL ANALYSIS NO. 13-11

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
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OFFSITE DISPOSALONSITE DISPOSAL

1		Waste Diuron (Spike 80 W)	ORM-E	NA2767	None	None	20	Plastic bag in fiberboard carton	Empty
2		Waste Pesticide, water reactive	ORM-C	NA2210	None	None	48	Plastic bag in fiberboard carton	Empty

0000104

Complete uns d parts and forward to: SWP&DU 2750E/200E Rockwell	<b>Rockwell Hanford Operations</b> <b>CHEMICAL WASTE DISPOSAL REQUEST</b>	Logbook No. <b>13-11</b> Manifest(s) cross-reference	
Requested by <b>Mike MALARCHUK</b>	Telephone Number <b>505-571-1171</b>	Address <b>1171 Bldg</b>	Company <b>R.H.O.</b>
Signature <b>Mike Malarchuk</b>	Date <b>11-29-97</b>		

R No - 13 - 11

WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)

Item No.	*** No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	20	50lb	Empty	CARD BOARD BOX	Spike Saw Herbicide				
2	10	48 oz	Empty	PLASTIC Bags in Cardboard Box	Dust wood killer, Herbicide				

0000105

Radiation Monitoring Release Survey Card Number (if applicable)

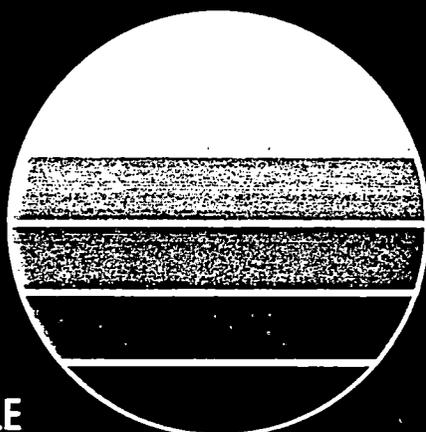
- Hazards
  - Corrosive - C
  - Oxidizer - O
  - Poison - P
  - Flammable - F
  - Explosive - E
- Status
  - Full - F
  - Partially Full - PF
  - Empty (<1 in.) - M.T.
  - Triple rinsed (empty drums) - TR
  - Reacted - Rx
  - Old (expired) - O
  - New (unused) - N
- Indicate how many containers of this size are being offered for disposal

SPECIMEN LABEL ACTUAL SIZE



# Oust<sup>®</sup>

## WEED KILLER



TRADEMARK

**DISPERSIBLE  
GRANULE**

**NET WT  
3 lb**

**ACTIVE INGREDIENT:** Sulfometuron methyl  
 Methyl 2-[[[(4,6-dimethyl-2-pyrimidinyl)amino]-  
 carbonyl]amino]sulfonyl]benzoate ..... 75%

**INERT INGREDIENTS** ..... 25%

U.S. Patent Pending                      EPA Est. 352-WV-1                      EPA Reg. No. 352-401

**KEEP OUT OF REACH OF CHILDREN.  
 PRECAUTIONARY STATEMENTS  
 HAZARDS TO HUMANS**

**CAUTION! MAY IRRITATE EYES, NOSE, THROAT, AND SKIN.**

Avoid breathing dust or spray mist. Avoid contact with skin, eyes, and clothing. If in eyes, immediately flush with plenty of water and get medical attention. If on skin, immediately flush with plenty of water and get medical attention if irritation persists.

**ENVIRONMENTAL HAZARDS**

Do not apply directly to wetlands or any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

E. I. du Pont de Nemours and Co. (Inc.), Agricultural Chemicals Dept., Wilmington, DE

**IMPORTANT**

Do not use on food or feed crops. Injury to or loss of desirable trees or other plants may result from failure to observe the following: Do not apply (except as recommended), or drain or flush equipment on or near desirable trees or other plants on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not apply where runoff water may flow onto agricultural land as injury to crops may result. In addition, do not apply directly to any body of water. Do not use on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of spray to desirable plants. Keep from contact with fertilizers, insecticides, fungicides and seeds.

Following an "Oust" application, the spray tank used should not be used for other than non-crop applications. This is extremely important as low rates of "Oust" can kill or severely injure most crops.

**STORAGE AND DISPOSAL**

**STORAGE:** Store product in original container only, away from other pesticides, fertilizer, food, or feed.

**DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at approved waste disposal facility. Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

91121900107

**GENERAL INFORMATION**

Du Pont "Oust" Weed Killer is a dispersible granule to be mixed in water and applied as a spray for control of many annual and perennial grasses and broadleaf weeds on noncropland areas.

"Oust" may be applied preemergence or postemergence to the weeds; best results are obtained if application is made before or during early stages of weed growth. "Oust" may be used at any time of the year except when ground is frozen, provided adequate moisture is available for herbicide activation. Under limited rainfall conditions, "Oust" may not provide satisfactory control of hard-to-kill perennials. To reduce the potential for off-target movement, do not apply "Oust" during periods of intense rainfall or to soils saturated with water.

"Oust" is absorbed by both roots and foliage of weeds, resulting in visual effects progressing from growth inhibition to reddish-purplish coloration, chlorosis, necrosis, vein discoloration, and death of terminals. Initial effects are usually seen 2 or 3 weeks following application; however, the final effects are evident at about 4 to 6 weeks after application.

Since the degree of control and duration of effect will vary with the amount of chemical applied, soil texture, rainfall and other conditions, it is suggested that users limit their first use to small areas.

**NOTICE TO BUYER:** Purchase of this material does not confer any rights under patents of countries outside of the United States.

**DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with its labeling. "Oust" Weed Killer should be used only in accordance with recommendations on this label or in separate published Du Pont recommendations available through local dealers.

Du Pont will not be responsible for losses or damages resulting from the use of this product in any manner not specifically recommended by Du Pont. User assumes all risks associated with such nonrecommended use.

"Oust" is recommended for pre- and postemergence control of many annual and perennial grasses and broadleaf weeds on noncropland areas such as airports, fence rows, roadsides and associated rights-of-way, lumberyards, petroleum tank farms, pipeline and utility rights-of-way, pumping installations, railroads, storage areas, plant sites, and other similar areas.

**SPRAY PREPARATION:** Mix the proper amount of "Oust" in water in the spray tank with the agitator running. Continuous agitation is required to keep the product in suspension. To minimize drift, a drift control agent should be added at the recommended label rate. For nonselective postemergence applications, a nonionic surfactant such as Du Pont Surfactant WK or "Ortho X-77" may then be added at the rate of 1 quart per 100 gallons of spray to improve wetting and/or contact activity. "Oust" spray preparations may degrade in acid solutions if not used within 48 hours. Thoroughly reagitator before reusing.

**EQUIPMENT — SPRAY VOLUME AND PRESSURE:** Apply uniformly with properly calibrated ground equipment, using at least 25 gallons of spray per acre and a spray pressure of 25 to 50 psi. Extreme care must be taken to prevent drift to desirable plants or agricultural land. To minimize drift, apply at low pressures with coarse spray nozzles and booms as low as possible to ground. Keep "Oust" out of cropland. Do not apply by aircraft.

**WEEDS CONTROLLED, RATES AND TIMING:**

**Early Postemergence — Selective Applications — 1 Ounce Per Acre**

Broadleaves		Grasses	
Carolina geranium	Russian thistle	Sweet clover	Downy brome
Goldenrod	Spotted spurge	Wild carrot	Fescue
Kochia	Sunflower		Foxtail

**Preemergence to Early Postemergence — 3 to 5 Ounces Per Acre**

Broadleaves (Up to 3 to 4" in Height or Diameter)			Grasses (Up to 6 to 12" in Height)	
Bouncingbet	Hoary cress	Sowthistle	Alta fescue	Johnsongrass
Buckhorn plantain	Horsetail	St. Johnswort	Annual bluegrass	(short-term control)
Burclover	Kochia	Sunflower	Annual ryegrass	Little barley
Carolina geranium	Little mallow	Sweet clover	Bahiagrass	Red brome
Common chickweed	Mustard	Tansymustard	Barnyardgrass	Red fescue
Common dandelion	Ox-eye daisy	Tansy ragwort	Downy brome	Red canarygrass
Common speedwell	Pigweed	Tumble mustard	Fescue	Rippgut brome
Common yarrow	Prickly lettuce	Vetch	Foxtail	Ryegrass
Crimson clover	Purple starthistle	Wild carrot	Indian grass	Smooth brome
Dogfennel	Ragweed	Yellow rocket	Italian ryegrass	Sprangletop
Filaree	Russian thistle			

**Early Postemergence — 6 to 12 Ounces Per Acre**

Broadleaves		Grasses	
Redstraw	Goldenrod	Musk thistle	Johnsongrass
Canada thistle	Hemlock	Poison ivy	(season-long control)
Early dock	Honeysuckle	Spanishneedles	Yellow nutsedge
Raspberry	Jerusalem artichoke	Turkey mullein	
Fieldneck	Kudzu*	Virginia pepperweed	
Firebane	Mayweed	Wild blackberry	

\*Considered hard-to-kill and use only high rate of 12 ounces.

Use the higher level of the recommended dosage ranges under the following conditions: heavy weed growth; on soils containing more than 2% organic matter; and on high soil moisture areas such as along road edges or railroad shoulders.

**NONSELECTIVE WEED CONTROL:**

**Johnsongrass Control:** For short-term control (up to 3 months), apply "Oust" at 2 to 5 ounces per acre early postemergence to the johnsongrass. When regrowth occurs or if further control of the actively growing johnsongrass is desired, retreat at 3 to 5 ounces per acre.

For season-long control, apply "Oust" at 6 to 12 ounces per acre during the stages of early postemergence to the johnsongrass through the period when the johnsongrass is actively growing.

**Control of Other Weeds:** Apply "Oust" at 3 to 5 ounces per acre for control of weeds such as Carolina geranium, foxtail, kochia, little barley, ox-eye daisy, Russian thistle, etc., during pre- to early-postemergence stages of weed growth. For hard-to-control weeds such as curly dock, goldenrod, musk thistle, etc., apply "Oust" at 6 to 12 ounces per acre.

**Tank Mixtures With Residual Herbicides (Bareground Weed Control):** For improved preemergence to early postemergence control of downy brome, fescue, foxtail, johnsongrass, kochia, Russian thistle, and wild blackberry add 2 to 6 ounces of "Oust" to the recommended rates of each of the following Du Pont products: Hyvare X Weed Killer, Karmex Weed Killer, Krovar I Weed Killer, Velpar L Weed Killer or Velpar Weed Killer.

**SELECTIVE WEED CONTROL:**

For use on unimproved industrial turf, on roadsides, and on other non-cropland areas where bermudagrass (common and coastal varieties), bahiagrass, crested wheatgrass and smooth brome are well established and are desired as ground covers.

**BERMUDAGRASS RELEASE**

For control of many annual and perennial broadleaf weeds and grasses use the following application timings:

**Late Spring and Early Summer:** Apply 1 to 2 oz. per acre for control of Carolina geranium, fescue, foxtail, goldenrod, spotted spurge, sweet clover, and wild carrot after bermudagrass is well-established, usually about 30 days after initial spring flush. If regrowth of weeds occurs and additional control is desired, repeat treatment at 1 to 2 oz. during the late spring and summer. After weeds become established, best results occur when applications are made 1 to 2 weeks following mowing. Apply 2 to 4 oz. per acre for short-term control of johnsongrass after bermudagrass is well-established, usually about 30 days after initial spring flush. Retreat with 2 to 4 oz. if additional control is desired or if regrowth occurs.

**Late Fall and Early Winter:** Apply 1 to 4 oz. per acre for control of winter annuals such as Carolina geranium, common chickweed, fescue, little barley, and wild blackberry.

**BAHIAGRASS RELEASE AND SEEDHEAD SUPPRESSION**

Apply 1 oz. for control of fescue, goldenrod, spotted spurge and wild carrot. Rates as low as 1/2 oz. per acre have reduced bahiagrass growth vigor and suppressed seedheads when applied before seedhead emergence in the spring or following mowing.

**SMOOTH BROME RELEASE AND SUPPRESSION**

For control of downy brome, foxtail, goldenrod, kochia, Russian thistle, sunflower and sweet clover in well established stands of smooth brome, apply 1 oz. of "Oust" in the spring. This application may also result in smooth brome seedhead reduction, as well as growth suppression, and reduced plant vigor.

**CRESTED WHEATGRASS RELEASE AND SUPPRESSION**

For control of downy brome, kochia, Russian thistle, and sweet clover in well established stands of crested wheatgrass on non-crop sites, apply 1 oz. "Oust" during the rainy season or spring. This application may also result in growth suppression of the crested wheatgrass.

**NOTE: (Selective Weed Control)**

1. Temporary discoloration of bahiagrass, bermudagrass and smooth brome may result following an application of "Oust".
2. Do not apply "Oust" to industrial turf that is under stress from drought, insects, disease, cold temperatures, or late spring frost as injury may result.
3. Do not use a surfactant.
4. Follow all use precautions on label.

**NOTICE OF WARRANTY**

Du Pont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Du Pont. In no case shall Du Pont be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. DU PONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE

\*Registered trademark of Chevron Chemical Company.

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>MA 789 000 8967</b>	Manifest Document No.	2. Page 1 of <b>1</b>	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address <b>M. Malarchick 1171 Bldg/1100 Area ROD 13-11</b>				A. State Manifest Document Number			
Generator's Phone ( <b>509</b> ) <b>376-6654</b>				B. State Generator's ID			
5. Transporter 1 Company Name <b>Rockwell Hanford</b>		6. US EPA ID Number <b>MA 789 000 8967</b>		C. State Transporter's ID			
7. Transporter 2 Company Name <b>NA</b>		8. US EPA ID Number <b>NA</b>		D. Transporter's Phone <b>376-1420</b>			
9. Designated Facility Name and Site Address <b>Central Landfill Chemical Tranch</b>		10. US EPA ID Number <b>MA 789 000 8967</b>		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility's ID			
				H. Facility's Phone <b>(509) 376-6748</b>			
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
	a.	<b>Waste Diuron (Spils 80 W)</b>	<b>ORM-E MA2767</b>	<b>23</b>	<b>21</b>	<b>P<sup>3</sup></b>	<b>None</b>
	b.	<del><b>Waste Pesticide, Water reactive (OUST)</b></del>	<del><b>ORM-C MA2210</b></del>	<del><b>48</b></del>	<del><b>21</b></del>	<del><b>P<sup>3</sup></b></del>	<del><b>None</b></del>
	c.						
	d.						
J. Additional Descriptions for Materials Listed Above <b>Empty plastic bags inside fiberboard cartons</b>				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information <i>See above</i>							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.							
Printed/Typed Name			Signature		Date		
			<i>Approved by [Signature]</i>		Month Day Year		
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials			Signature		Date	
	Printed/Typed Name <i>E. E. Rivers</i>			<i>E. E. Rivers</i>		Month Day Year <i>1 4 85</i>	
FACILITY	18. Transporter 2 Acknowledgement of Receipt of Materials			Signature		Date	
	Printed/Typed Name					Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						Date	
Printed/Typed Name <i>W. D. Phillips</i>			Signature <i>[Signature]</i>		Month Day Year <i>1 4 85</i>		

0000108

CONDITIONAL RADIATION RELEASE

Instructions: 112 canals / 200ft direct  
accessible surfaces only

Date: 5-17-85 By: MH/JH/MC  
Radiation Monitoring

BL-6700-133 (10-77)

CONDITIONAL RADIATION RELEASE

Instructions: 112 Drums  
all 200ft direct on accessible  
surfaces only

Date: 5-17-85 By: MB/JH/MC  
Radiation Monitoring

BL-6700-133 (10-77)

0000109

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>WA 789 000 8967</b>	Manifest Document No.		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address <b>K H Smith 105 N/100N</b>					A. State Manifest Document Number <b>UNC - 13-15</b>				
4. Generator's Phone (509) <b>373-4940</b>					B. State Generator's ID				
5. Transporter 1 Company Name <b>Rockwell Hartford</b>			6. US EPA ID Number <b>WA 789 000 8967</b>		C. State Transporter's ID				
7. Transporter 2 Company Name <b>NA</b>			8. US EPA ID Number <b>NA</b>		D. Transporter's Phone <b>376-1420</b>				
9. Designated Facility Name and Site Address <b>Central Landfill Chemical Trench</b>			10. US EPA ID Number <b>WA 789 000 8967</b>		E. State Transporter's ID				
					F. Transporter's Phone				
					G. State Facility's ID				
					H. Facility's Phone <b>(509) 376-6748</b>				
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
	HM				No.	Type			
	a.	<b>waste oil and sand (Non-regulated)</b>	<b>None</b>	<b>None</b>	<b>110</b>	<b>DM</b>	<b>780</b>	<b>Ft<sup>3</sup></b>	<b>None</b>
	b.								
	c.								
d.									
J. Additional Descriptions for Materials Listed Above <b>102 55-gal drums 8 30-gal drums</b>					K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.									
Printed/Typed Name <b>RICHARD L. Southam</b>					Signature <i>Richard L. Southam</i>		Date <b>5/17/85</b>		Approved by <i>[Signature]</i>
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials								
	Printed/Typed Name <b>Jeffrey A Fee</b>					Signature <i>Jeffrey A Fee</i>		Date <b>5/17/85</b>	
	<del>Richard L. Southam</del>					<del>[Signature]</del>			
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name					Signature		Date		
19. Discrepancy Indication Space									
FACILITY	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.								
	Printed/Typed Name <b>D E Phelps</b>					Signature <i>D E Phelps</i>		Date <b>5/17/85</b>	

0000110

OUTGOING LTR. NO.	
INCOMING LTR. NO.	
DATE	
REPLY DUE	
DIST:	LTR. ENCL. APPL.
Ash, E.B.	
Bartholomew, D.C.	
Bellofatto, M.	
Carey, J.M.	
Crawford, A.C.	✓
Deichman, J.L.	
Di Poi, C.V.	
Donahue, J.W.	
Gimera, R.J.	
Gruha, R.S.	
Hammond, R.D.	
Heineman, R.E.	
Kinzer, J.E.	
Knight, B.E.	✓
Larson, M.P.	
Lorenzini, P.G.	✓
McRae, R.G.	
McDermott, R.J.	
Ogletree, L.R.	
Pascoe, K.J.	
Patterson, J.W.	✓
Perkins, J.O.	
Reuser, A.L.	
Rocher, J.H.	✓
Salina, C.M.	
Wol, V.R.	
Zahn, L.L.	
Contract Administrator	✓
Central Files	✓
DR Groth	✓
LW Rodgers	✓
LE LUST	✓
SR GRC	✓
RD Prosser	✓
DB Wedrich	✓
WALN	✓
HANSEN	✓
HA	✓
HAERER	✓
GA	✓
HAUDE	✓
Y	✓
DEC 27 1984	
14-6000-117 (1-84)	

Rockwell Hanford Operations  
 Energy Systems Group  
 P.O. Box 800  
 Richland, WA 99352



Rockwell  
 International

In reply, refer to letter R84-4608

DEC 27 1984

Mr. K. H. Smith  
 105N/100N Area  
 UNC Nuclear Industries  
 Post Office Box 490  
 Richland, Washington 99352

Dear Mr. Smith:

DISPOSAL ANALYSIS NO. 13-15

Reference: Chemical Waste Disposal Request, December 11, 1984

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the reference Chemical Waste Disposal Request.

The waste listed in the reference Chemical Waste Disposal Request is non-hazardous and non-regulated. It should be disposed of in the Central Landfill, Chemical Trench. A properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. A partially completed manifest is attached for your use.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented following compliance with the disposal instructions for Onsite Disposal in the subject Disposal Analysis and completion of the manifest. Transportation arrangements can be made by contacting A. D. Poor (6-1420).

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

Very truly yours,

H. A. Haerer, Project Manager  
 Hazardous Waste Program

HAH:LFL:kh

Attn.

0000111

DISPOSAL ANALYSIS NO. 13-15

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
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OFFSITE DISPOSALONSITE DISPOSAL

		Non-regulated drums of waste oil and sand	None	None	None	None	102	55-gallon steel drums	55 gallons
							8	30-gallon steel drums	30 gallons

C000113



HANFORD ENVIRONMENTAL  
HEALTH FOUNDATION

November 30, 1984

9225

UNC Nuclear Industries  
105-N Building  
100-N Area

Attn: K. H. Smith

PCB IN OIL

The following is the result of the PCB analysis of one oil sample received October 26, 1984. The sample was diluted with isooctane, cleaned with sulfuric acid, and analyzed by capillary gas chromatography using an electron capture detector. Reported part per million (ppm) value is on a weight/weight basis.

<u>Sample</u>	<u>ppm PCB's</u>
Oil	<1

If you should have any questions, please contact Environmental Health Sciences.

*H. L. Boorse*

H. L. Boorse  
Environmental Health Sciences

spm

Complete unit parts and forward to: SWP&DU 2750E/200E Rockwell	<b>Rockwell Hanfco Operations</b> <b>CHEMICAL WASTE DISPOSAL REQUEST</b>	Logbook No. <u>13-15</u> Manifest(s) cross-reference
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Requested by <b>KENNETH H. SMITH</b>	Telephone Number <b>34940</b>	Address <b>105N/125</b>	Company <b>UNC</b>
Signature <u><i>Kenneth H. Smith</i></u>		Date <u>12-11-84</u>	

**WASTE DESCRIPTION (If more than 12 items, continue on the back of this form)**

Item No.	*** No. of Containers	Container Volume	Waste Volume	Container Material	Chemical or Trade Name	Solid(S) Liquid(L) Gas(G)	Hazards*	Status**	Disposition and Date
1	102	55 GAL	TOTAL 750 CUFT	DOT 17H STEEL DRUM	#6 BUNKER C FUEL OIL MIXED	S	F	F	
2	B	30 GAL	TOTAL 82 CUFT	DOT 17H STEEL DRUM	WITH SAND	S	F	F	
					(MATERIAL RESULTED FROM CLEAN UP OF FUEL OIL SPILL, SAND AND ABSORBENT WAS USED TO SOLIDIFY MATERIAL)				
					<i>Reviewed J. C. [Signature]</i>				

Radiation Monitoring Release Survey Card Number (if applicable) None to shipment

<b>Hazards</b> Corrosive - C    Flammable - F Oxidizer - O    Explosive - E Poison - P	<b>** Status</b> Full - F    New (unused) - N Partially Full - PF Empty (<1 in.) - M.T. Triple rinsed (empty drums) - TR Reacted - Rx Old (expired) - O	<b>***</b> Indicate how many containers of this size are being offered for disposal
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DISPOSAL ANALYSIS NO. 13-15

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
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OFFSITE DISPOSALONSITE DISPOSAL

Non-regulated drums of waste oil and sand	None	None	None	None	None	102	55-gallon steel drums	55 gallons
						8	30-gallon steel drums	30 gallons

0000115

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>WA 789 000 8967</b>		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.		
		3. Generator's Name and Mailing Address <b>K H Smith 105 N/100N UNC - 13-15</b>				A. State Manifest Document Number		B. State Generator's ID		
4. Generator's Phone (509) <b>373-4940</b>		5. Transporter 1 Company Name <b>Rockwell Hartford</b>		6. US EPA ID Number <b>WA 789 000 8967</b>		C. State Transporter's ID		D. Transporter's Phone <b>376-1420</b>		
7. Transporter 2 Company Name <b>NA</b>		8. US EPA ID Number <b>NA</b>		E. State Transporter's ID		F. Transporter's Phone		G. State Facility's ID		
9. Designated Facility Name and Site Address <b>Central Landfill Chemical Trench</b>				10. US EPA ID Number <b>WA 789 000 8967</b>		H. Facility's Phone <b>(509) 376-6748</b>				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
						No.		Type		
a.	HM	<b>waste oil and sand (Non-regulated)</b>		<b>None None</b>		<b>110</b>	<b>04</b>	<b>780</b>	<b>FT<sup>3</sup></b>	<b>None</b>
b.										
c.										
d.										
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.										
Printed/Typed Name						Signature			Date	
						<b>Approved by L J Luit</b>			<b>Month Day Year</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials						Signature			Date	
Printed/Typed Name									<b>Month Day Year</b>	
18. Transporter 2 Acknowledgement of Receipt of Materials						Signature			Date	
Printed/Typed Name									<b>Month Day Year</b>	
19. Discrepancy Indication Space										
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.										
Printed/Typed Name						Signature			Date	
									<b>Month Day Year</b>	

GENERATOR TRANSPORTER FACILITY

91121200117

0000116

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <i>WA 767 000 2167</i>		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.							
3. Generator's Name and Mailing Address <i>K H Smith 105 N. Main</i>						A. State Manifest Document Number <i>UNC - 13-15</i>									
4. Generator's Phone ( <i>509</i> ) <i>373-4740</i>						B. State Generator's ID									
5. Transporter 1 Company Name <i>Wesport Hauling</i>			6. US EPA ID Number <i>WA 767 000 2167</i>			C. State Transporter's ID									
7. Transporter 2 Company Name <i>NA</i>			8. US EPA ID Number <i>NA</i>			D. Transporter's Phone <i>373-4740</i>									
9. Designated Facility Name and Site Address <i>Clinton Co. Dept 11. 1111 Trench</i>						E. State Transporter's ID									
						F. Transporter's Phone									
						G. State Facility's ID									
						H. Facility's Phone <i>373-4740</i>									
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.			
a. <i>Waste oil (oil)</i>						No. <i>117</i>		Type <i>DR</i>		Quantity <i>750</i>		Unit <i>FE</i>		Waste No. <i>None</i>	
b.															
c.															
d.															
J. Additional Descriptions for Materials Listed Above <i>100 lbs. of...</i>						K. Handling Codes for Wastes Listed Above									
15. Special Handling Instructions and Additional Information															
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.															
Printed/Typed Name						Signature				Date					
<i>Jeffrey A. ...</i>						<i>[Signature]</i>				<i>5/7/86</i>					
17. Transporter 1 Acknowledgement of Receipt of Materials															
Printed/Typed Name						Signature				Date					
<i>Jeffrey A. ...</i>						<i>[Signature]</i>				<i>5/7/86</i>					
18. Transporter 2 Acknowledgement of Receipt of Materials															
Printed/Typed Name						Signature				Date					
19. Discrepancy Indication Space															
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.															
Printed/Typed Name						Signature				Date					
<i>[Name]</i>						<i>[Signature]</i>				<i>5/7/86</i>					

0000117

91121400118

GENERATOR

TRANSPORTER

FACILITY

Rockwell Hanford Operations

**DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD**

**STORAGE/DISPOSAL ACTIVITY**

Onsite Disposal (D81):  
 Oxidizer Trench  
 Corrosive Trench  
 Asbestos Trench

Non-PCB Onsite Storage (SO1)/Offsite TSD:   
 PCB Onsite Storage/Offsite Disposal:

**ORIGINATOR**

End Function: **X 46720** Manifest Number: **RHO 13-19B**  
 Company: **Rockwell Hanford** Building/Area: **202A/200 East**  
 Contact Person: **R L Nelson**  
 Address/Phone: **202A/200 East 373-1323**

**PHYSICAL DESCRIPTION**

Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	Non-regulated drums, empty	None	None	135	88	202A/200E
2						
3						
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form.

Total Weight (Front & Back) **135** KG Total Volume (Front & Back) **88** FT<sup>3</sup>

**TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)**

ONSITE DISPOSAL: Disposal Date: **1-10-85** Signature: Disposer  
 Trench Location: Beginning Coordinates: N W Ending Coordinates: N W

NON PCB OFFSITE DISPOSAL  
 Storage Time: Arrival Date: Date Shipped: Facility Name: Facility Address:  
 Offsite TSD  
 TSD Process: Landfill (D81):  Disposal Date: Treatment (TO\_\_\_):  Treatment Date: Specify Treatment Activity: Other (\_\_\_):  Specify Activity:

PCB OFFSITE DISPOSALS  
 Storage Time: Beginning Date: Date Shipped: Facility Name: Facility Address:  
 Offsite Disposal:

COMMENTS: 0000118

9112190019

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <i>WA 7-1 000 217</i>	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <i>KLIN... 102A/100 East</i>				A. State Manifest Document Number		
				B. State Generator's ID		
4. Generator's Phone ( ) <i>573-7333</i>		6. US EPA ID Number <i>WA 7-1 000 217</i>		C. State Transporter's ID		
5. Transporter 1 Company Name <i>...</i>		7. Transporter 2 Company Name		D. Transporter's Phone <i>218-1116</i>		
8. US EPA ID Number		9. Designated Facility Name and Site Address <i>...</i>		E. State Transporter's ID		
10. US EPA ID Number		11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		F. Transporter's Phone		
12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.
a. <i>...</i>		<i>12 DP</i>		<i>3 FL</i>		<i>None</i>
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information <i>Empty plastic...</i>						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.						
Printed/Typed Name <i>...</i>				Signature <i>...</i>		Date Month Day Year
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name <i>...</i>				Signature <i>...</i>		Date Month Day Year
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name				Signature		Date Month Day Year
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name <i>...</i>				Signature <i>...</i>		Date Month Day Year

0000119

internal Letter



Rockwell International

Date January 11, 1985

No 05000-85-002

TO: Name, Organization, Internal Address

FROM: Name, Organization, Internal Address, Phone

R. L. Nelson  
202A/200 East

H. A. Haerer  
Hazardous Waste Program

3-4216

Subject: DISPOSAL ANALYSIS NO. 13-19

Reference: Chemical Waste Disposal Request, January 2, 1985

The Solid Waste Processing & Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

All packaging, labeling and marking of the waste must be completed in accordance with the prescribed instructions, which are based on Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. Partially completed manifests are attached for your use.

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifest. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench or to the 2727-S storage facility for subsequent offsite disposal is a generator responsibility and may be implemented after compliance with instructions in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting A. D. Poor (6-1420).

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

*H. A. Haerer*  
H. A. Haerer, Project Manager  
Hazardous Waste Program

HAH:LFL:ra

Att.

cc: G. R. Cox *GRC*  
D. R. Groth *DRG*  
L. F. Lust (2)

91121900101

0000120

Disposal Analysis No. 13-19

Offsite Disposal

Items listed for Offsite Disposal must be properly packaged, labeled and manifested for shipment to an offsite disposal facility in accordance with the State of Washington law (Chapter 173-303). The Hanford generator has the responsibility for packaging and for shipping the waste to the offsite staging facility, 2727-S/200 West. Offsite disposal shipments originating from this facility will be arranged by Rockwell.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for offsite disposal:

- o In accordance with 49 CFR 173.24, waste must be packaged in strong, tight, DOT-approved containers.
- o The DOT Label(s) specified in this Disposal Analysis must be applied to the container.
- o The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- o The drums must be inspected to ensure that they are empty.
- o In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, and in a color which contrasts with the container.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifest has been initiated by the Rockwell Solid Waste Processing & Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifest will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

0000121

9112120192

DISPOSAL ANALYSIS NO. <sup>K-110-</sup>13-19

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
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OFFSITE DISPOSAL

		Hydrazine	Corrosive Material	UN2030	Corrosive	U133	6	55-gal drums	Empty
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ONSITE DISPOSAL

		Non-regulated	None	None	None	None	12	55-gal drums	Empty
--	--	---------------	------	------	------	------	----	--------------	-------

0000122

Complete unshaded parts and forward to:  
 EPA/105/200E  
 Rockwell

9 1 1 2 1 7 0 0 1 7 4  
 Rockwell Hanford Operations  
**CHEMICAL WASTE DISPOSAL REQUEST**

Logbook No. H-24/11/11  
 Manifest(s) cross-reference

Requested by <b>R. L. NELSON</b>	Telephone Number <b>373-2323</b>	Address <b>202A/2006</b>	Company <b>RHO</b>
Signature <u>Ronald L. Nelson</u> Date <u>1-2-85</u>		Radiation Monitoring Release Survey Card Number (If Applicable)	

**WASTE DESCRIPTION (For additional items, continue on the back of this form)**

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	None	MT	
1	4	55 GAL	0	PLAS DRUM	EMPTY FE DRUMS	FE SA <sub>2</sub>		L	C	MT	MT	
2	6	55 GAL	0	PLAS DRUM	EMPTY N <sub>2</sub> H <sub>4</sub> DRUMS	N <sub>2</sub> H <sub>4</sub>		L	C	MT	MT	
3	8	55 GAL	0	PLAS DRUM	EMPTY HN DRUMS	HN		L	C	MT	MT	

**INSTRUCTIONS**

- COLUMN A - ITEM NUMBER** - Item number for each unique waste.
- COLUMN B - NUMBER OF CONTAINERS** - Number of containers of a unique waste to be disposed.
- COLUMN C - CONTAINER SIZE** - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.
- COLUMN D - TOTAL WASTE QUANTITY** - Total waste quantity (in kilograms only) of each unique waste to be disposed.
- COLUMN E - CONTAINER DESCRIPTION** - Specify container type e.g. steel drum, glass bottle.
- COLUMN F - WASTE DESCRIPTION** - Specify trade name or general description of each unique waste.
- COLUMN G - CHEMICAL COMPONENTS** - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

- COLUMN H - WEIGHT (%)** - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.
- COLUMN I - PHYSICAL STATE** - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.
- COLUMN J - HAZARDS** - Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.
- COLUMN K - WASTE STATUS** - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).
- COLUMN L - CONTAINER STATUS** - Indicate whether container is: Full (F), Partially Full (PF), Empty (E), Triple Rinsed (TR).

10000123

9 1 1 2 1 7 0 0 1 2 5

Complete unshaded parts and forward  
to: &DU  
2150E/A105/200E  
Rockwell

Rockwell Hanford Operations

## CHEMICAL WASTE DISPOSAL REQUEST

Logbook No. ~~1179~~ 13-17

Manifest(s) cross-reference

Requested by

R. L. NELSON

Telephone Number

373-2323

Address

202A/10E

Company

RHO

Signature

Ronald L. Nelson

Date

1-2-85

Radiation Monitoring Release Survey

Card Number (If Applicable)

## WASTE DESCRIPTION (For additional items, continue on the back of this form)

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 1 ppm	L	None	None	MT	
1	4	55 GAL	0	PLAS DRUM	EMPTY FE DRUMS	Fe SA <sub>2</sub>		L	C	MT	MT	
2	6	55 GAL	0	PLAS DRUM	EMPTY N <sub>2</sub> H <sub>4</sub> DRUMS	N <sub>2</sub> H <sub>4</sub>		L	C	MT	MT	
3	8	55 GAL	0	PLAS DRUM	EMPTY HN DRUMS	HN		L	C	MT	MT	
4	15	55 gal	0	steel Drums	Empty Non-regulated						MT	

## INSTRUCTIONS

**COLUMN A - ITEM NUMBER** - Item number for each unique waste.

**COLUMN B - NUMBER OF CONTAINERS** - Number of containers of a unique waste to be disposed.

**COLUMN C - CONTAINER SIZE** - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.

**COLUMN D - TOTAL WASTE QUANTITY** - Total waste quantity (in kilograms only) of each unique waste to be disposed.

**COLUMN E - CONTAINER DESCRIPTION** - Specify container type e.g. steel drum, glass bottle.

**COLUMN F - WASTE DESCRIPTION** - Specify trade name or general description of each unique waste.

**COLUMN G - CHEMICAL COMPONENTS** - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

**COLUMN H - WEIGHT (%)** - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.

**COLUMN I - PHYSICAL STATE** - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.

**COLUMN J - HAZARDS** - Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.

**COLUMN K - WASTE STATUS** - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).

**COLUMN L - CONTAINER STATUS** - Indicate whether container is: Full (F), Partially Full (PF), Empty (1 in) (MT), Triple Rinsed (TR).



POOR COPY RECEIVED

Please print or type: (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. WA 781 001 8167	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.										
3. Generator's Name and Mailing Address RL Nelson 201A/300 East RHD 13-17A				A. State Manifest Document Number											
4. Generator's Phone (507) 373-2523				B. State Generator's ID											
5. Transporter 1 Company Name Kroger - St. Cloud		6. US EPA ID Number WA 781 001 8167		C. State Transporter's ID											
7. Transporter 2 Company Name NA		8. US EPA ID Number NA		D. Transporter's Phone 516-1416											
9. Designated Facility Name and Site Address 3737-2 / 3000 4		10. US EPA ID Number WA 781 001 8167		E. State Transporter's ID											
				F. Transporter's Phone											
				G. State Facility's ID											
				H. Facility's Phone 373-26793											
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.			
a. waste (empty) Hydrazine, ammonium nitrate						6		600		Y		1123			
b.															
c.															
d.															
J. Additional Descriptions for Materials Listed Above								K. Handling Codes for Wastes Listed Above							
15. Special Handling Instructions and Additional Information															
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.															
Printed/Typed Name RONALD L. NELSON								Signature Ronald Nelson				Certified by L J Hunt		Date 1/16/85	
17. Transporter 1 Acknowledgement of Receipt of Materials															
Printed/Typed Name								Signature				Date		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials															
Printed/Typed Name								Signature				Date		Month Day Year	
19. Discrepancy Indication Space															
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.															
Printed/Typed Name								Signature R/C Bay				Date		Month Day Year 1/16/85	

Rockwell Hanford Operations

DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD

STORAGE/DISPOSAL ACTIVITY

Onsite Disposal (D81):  
 Oxidizer Trench  
 Corrosive Trench  
 Asbestos Trench

Non-PCB Onsite Storage (SOI)/Offsite TSD:   
 PCB Onsite Storage/Offsite Disposal:

ORIGINATOR

End Function: X 46720  
 Manifest Number: RHO 13-23  
 Company: RHO  
 Building/Area: 202A/200 East  
 Contact Person: R. Nelson  
 Address/Phone: 202A/200 East 373-2323

PHYSICAL DESCRIPTION

Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	15 Empty, Non-regulated steel drums	None	None	477	110	202A/200E
2						
3						
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form.

Total Weight (Front & Back) 477 KG  
 Total Volume (Front & Back) 110 FT<sup>3</sup>

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)

ONSITE DISPOSAL: Disposal Date: Signature: Disposer  
 Trench Location: Beginning Coordinates: N W  
 Ending Coordinates: N W

NON PCB OFFSITE DISPOSAL  
 Storage Time: Arrival Date:  
 Date Shipped:  
 Offsite TSD: Facility Name:  
 Facility Address:  
 TSD Process: Landfill (D81):  Disposal Date  
 Treatment (TO):  Treatment Date  
 Specify Treatment Activity:  
 Other ( ):   
 Specify Activity:

PCB OFFSITE DISPOSALS  
 Storage Time: Beginning Date:  
 Date Shipped:  
 Offsite Disposal: Facility Name:  
 Facility Address:

COMMENTS:

0000127

<b>STORAGE/DISPOSAL ACTIVITY</b> Onsite Disposal (D81): <input type="checkbox"/> Oxidizer Trench <input checked="" type="checkbox"/> Corrosive Trench <input type="checkbox"/> Asbestos Trench  Non-PCB Onsite Storage (SOI)/Offsite TSD: <input type="checkbox"/> PCB Onsite Storage/Offsite Disposal: <input type="checkbox"/>	<b>ORIGINATOR</b> End Function: <u>KP</u> Manifest Number: <u>RHO 13-23</u> Company: <u>RHO</u> Building/Area: <u>202A/200E</u> Contact Person: <u>Rh Nelson</u> Address/Phone: <u>202A/200E 373-2323</u>
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PHYSICAL DESCRIPTION						
Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	<u>Non-regulator Empty drums (16)</u>	<u>None</u>	<u>None</u>	<u>609</u>	<u>118</u>	<u>202A/200E</u>
2						
3						
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form. Total Weight (Front & Back) 609 KG      Total Volume (Front & Back) 118 FT<sup>3</sup>

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)			
<b>ONSITE DISPOSAL:</b>	Disposal Date:	Signature: Disposer	
	Trench Location:	Beginning Coordinates: <u>N</u>	<u>W</u>
		Ending Coordinates: <u>N</u>	<u>W</u>
<b>NON PCB OFFSITE DISPOSAL</b>	Storage Time:	Arrival Date:	
	Offsite TSD	Date Shipped:	
		Facility Name:	
		Facility Address:	
		TSD Process:	Landfill (D81): <input type="checkbox"/> Disposal Date Treatment (TO ___): <input type="checkbox"/> Treatment Date Specify Treatment Activity  Other (___): <input type="checkbox"/> Specify Activity
<b>PCB OFFSITE DISPOSALS</b>	Storage Time:	Beginning Date:	
	Offsite Disposal:	Date Shipped:	
		Facility Name:	
		Facility Address:	

COMMENTS: 0000128

# BEST AVAILABLE COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <i>WA 781 000 8167</i>	Manifest Document No.		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address <i>RL Nelson 11241 1st St</i>					A. State Manifest Document Number				
4. Generator's Phone (509) <i>373-2323</i>					B. State Generator's ID				
5. Transporter 1 Company Name <i>Rockwell Hazard</i>			6. US EPA ID Number <i>WA 781 000 8167</i>	C. State Transporter's ID					
7. Transporter 2 Company Name <i>NA</i>			8. US EPA ID Number <i>NA</i>	D. Transporter's Phone <i>376-1420</i>					
9. Designated Facility Name and Site Address <i>East of Landfill Green Trench</i>			10. US EPA ID Number <i>WA 781 000 8167</i>	E. State Transporter's ID					
				F. Transporter's Phone					
				G. State Facility's ID					
				H. Facility's Phone <i>(509) 376-6710</i>					
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
					No.	Type			
	a.	<i>None listed by 40 CFR 171.15</i>			<i>15</i>	<i>DM</i>	<i>11</i>	<i>FE</i>	<i>None</i>
	b.								
	c.								
d.									
J. Additional Descriptions for Materials Listed Above					K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.									
Printed/Typed Name <i>DINA L NELSON</i>					Signature <i>[Signature]</i>		Date <i>1/10/85</i>		
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials					Date			
	Printed/Typed Name <i>[Name]</i>			Signature <i>[Signature]</i>		Month Day Year <i>1/10/85</i>			
	18. Transporter 2 Acknowledgement of Receipt of Materials					Date			
Printed/Typed Name			Signature		Month Day Year				
FACILITY	19. Discrepancy Indication Space								
	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.								
Printed/Typed Name <i>[Name]</i>					Signature <i>[Signature]</i>		Date <i>1/10/85</i>		

0000129

# BEST AVAILABLE COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <i>MA 7 7 100 207</i>	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address <i>156 N. Main St Worcester, MA 01494</i>				A. State Manifest Document Number				
4. Generator's Phone <i>(508) 753-1100</i>				B. State Generator's ID				
5. Transporter 1 Company Name <i>Worcester H. Hazardous Waste</i>		6. US EPA ID Number <i>MA 7 7 100 207</i>		C. State Transporter's ID				
7. Transporter 2 Company Name <i>NA</i>		8. US EPA ID Number <i>NA</i>		D. Transporter's Phone <i>7 7 1 1</i>				
9. Designated Facility Name and Site Address <i>Worcester Hazardous Waste Treatment, Storage, and Disposal Unit</i>				E. State Transporter's ID				
10. US EPA ID Number <i>MA 7 7 100 207</i>				F. Transporter's Phone				
				G. State Facility's ID				
				H. Facility's Phone <i>7 7 1 1 7 4</i>				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
				No.	Type			
GENERATOR	a.	<i>HAZARDOUS WASTE</i>		<i>11</i>	<i>DRUM</i>	<i>11</i>	<i>55</i>	<i>NA</i>
b.								
c.								
d.								
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.								
Printed/Typed Name <i>Edward J. Vein</i>				Signature <i>[Signature]</i>		Date <i>1 15 85</i>		
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date		
Printed/Typed Name				Signature		Month Day Year		
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date		
Printed/Typed Name				Signature		Month Day Year		
19. Discrepancy Indication Space								
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.								
Printed/Typed Name <i>[Name]</i>				Signature <i>[Signature]</i>		Date <i>1 15 85</i>		

9 1 1 2 1 7 0 0 1 3 2

'85

Complete unshaded parts and forward to:   
 &DU   
 JE/A105/200E   
 Rockwell

Rockwell Hanford Operations   
**CHEMICAL WASTE DISPOSAL REQUEST**

Logbook No. 13-2   
 Manifest(s) cross-reference

Requested by R.L. Nelson Telephone Number 373-2323 Address 202A/200E Company RHO   
 Signature Ronald J. Nelson Date 1-9-85 Radiation Monitoring Release Survey Card Number (If Applicable) \_\_\_\_\_

WASTE DESCRIPTION (For additional items, continue on the back of this form)

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 1 ppm	L	None	None	MT	
<u>1</u>	<u>16</u>	<u>55GAL</u>	<u>0</u>	<u>STEEL DRUM</u>	<u>EMPTY OIL DRUMS</u>	<u>OIL PCB</u>	<u>100. 1 ppm</u>	<u>L</u>	<u>NONE</u>	<u>NONE</u>	<u>MT</u>	
					<u>No letter sent included with</u>							
					<u>empty drums of DN 13 of</u>							

**INSTRUCTIONS**

- COLUMN A - ITEM NUMBER** - Item number for each unique waste.
- COLUMN B - NUMBER OF CONTAINERS** - Number of containers of a unique waste to be disposed.
- COLUMN C - CONTAINER SIZE** - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.
- COLUMN D - TOTAL WASTE QUANTITY** - Total waste quantity (in kilograms only) of each unique waste to be disposed.
- COLUMN E - CONTAINER DESCRIPTION** - Specify container type e.g. steel drum, glass bottle.
- COLUMN F - WASTE DESCRIPTION** - Specify trade name or general description of each unique waste.
- COLUMN G - CHEMICAL COMPONENTS** - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

- COLUMN H - WEIGHT (%)** - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.
- COLUMN I - PHYSICAL STATE** - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.
- COLUMN J - HAZARDS** - Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.
- COLUMN K - WASTE STATUS** - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).
- COLUMN L - CONTAINER STATUS** - Indicate whether container is: Full (F), Partially Full (PF), Empty (< 1 in) (MT), Triple Rinsed (TR).

<b>STORAGE/DISPOSAL ACTIVITY</b>		<b>ORIGINATOR</b>	
Onsite Disposal (DBI): <input type="checkbox"/> Oxidizer Trench <input checked="" type="checkbox"/> Corrosive Trench <input type="checkbox"/> Asbestos Trench		End Function: KP	Manifest Number: RHO 13-23
Non-PCB Onsite Storage (SOI)/Offsite TSD: <input type="checkbox"/> PCB Onsite Storage/Offsite Disposal: <input type="checkbox"/>		Company: RHO	Building/Area: 202A/200E
		Contact Person: RL Nelson	
		Address/Phone: 202A/200E 373-2323	

PHYSICAL DESCRIPTION						
Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	Non-regulated Empty drums (16)	None	None	609	118	202A/200E
2						
3						
4						
5						
6						
7						
8						
9						
10						
For additional items, continue on the back of this form.				Total Weight (Front & Back) 609 KG	Total Volume (Front & Back) 118 FT <sup>3</sup>	

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)			
ONSITE DISPOSAL:	Disposal Date:	Signature: Disposer	
	Trench Location:	Beginning Coordinates: N W	Ending Coordinates: N W
NON PCB OFFSITE DISPOSAL	Storage Time:	Arrival Date:	
	Offsite TSD	Date Shipped:	
		Facility Name:	
		Facility Address:	
	TSD Process:	Landfill (DBI): <input type="checkbox"/> Disposal Date Treatment (TO ____): <input type="checkbox"/> Treatment Date Specify Treatment Activity  Other (____): <input type="checkbox"/> Specify Activity	
PCB OFFSITE DISPOSALS	Storage Time:	Beginning Date:	
	Offsite Disposal:	Date Shipped:	
		Facility Name:	
		Facility Address:	

COMMENTS: 0000132

<b>STORAGE/DISPOSAL ACTIVITY</b> Onsite Disposal (D81): <input type="checkbox"/> Oxidizer Trench <input checked="" type="checkbox"/> Corrosive Trench <input type="checkbox"/> Asbestos Trench  Non-PCB Onsite Storage (SOI)/Offsite TSD: <input type="checkbox"/> PCB Onsite Storage/Offsite Disposal: <input type="checkbox"/>	<b>ORIGINATOR</b> End Function:                    X <b>46720</b> Manifest Number: <b>RHO 13-23</b> Company: <b>RHO</b> Building/Area: <b>202A/200 East</b> Contact Person: <b>Rh Nelson</b> Address/Phone: <b>202A/200 East                 373-2323</b>
--	---

PHYSICAL DESCRIPTION						
Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Numbers	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	15 Empty, Non-regulated steel drums	None	None	477	110	202A/200E
2						
3						
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form.

Total Weight (Front & Back) **477 KG**    Total Volume (Front & Back) **110 FT<sup>3</sup>**

**TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)**

<b>ONSITE DISPOSAL:</b>	Disposal Date:	Signature: Disposer
	Trench Location:	Beginning Coordinates: N                    W Ending Coordinates:    N                    W
<b>NON PCB OFFSITE DISPOSAL</b>	Storage Time:	Arrival Date:
	Offsite TSD:	Date Shipped:
		Facility Name:
		Facility Address:
	TSD Process:	Landfill (D81): <input type="checkbox"/> Disposal Date Treatment (TO ____): <input type="checkbox"/> Treatment Date Specify Treatment Activity:  Other ( ____ ): <input type="checkbox"/> Specify Activity:
<b>PCB OFFSITE DISPOSALS</b>	Storage Time:	Beginning Date:
	Offsite Disposal:	Date Shipped:
		Facility Name:
		Facility Address:

COMMENTS:

0000133

9121700174

<b>STORAGE/DISPOSAL ACTIVITY</b>		<b>ORIGINATOR</b>	
Onsite Disposal (D81):	<input type="checkbox"/> Oxidizer Trench <input checked="" type="checkbox"/> Corrosive Trench <input type="checkbox"/> Asbestos Trench	End Function: UNC	Manifest Number: UNC 13-31 B
Non-PCB Onsite Storage (SOI)/Offsite TSD: <input type="checkbox"/>		Company: UNC	Building/Area 1114N/100 N
PCB Onsite Storage/Offsite Disposal: <input type="checkbox"/>		Contact Person: J. R. Cooper	Address/Phone: 114 N/100 N 373-4939

PHYSICAL DESCRIPTION						
Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	Non-regulated drums of oil-soaked soil (12)	None	None	2400	88	1114 N/100 N
2						
3						
4						
5						
6						
7						
8						
9						
10						
For additional items, continue on the back of this form.				Total Weight (Front & Back) 2400KG	Total Volume (Front & Back) 88 FT <sup>3</sup>	

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)			
<b>ONSITE DISPOSAL:</b> LAND FILL	Disposal Date:	Signature: Disposer	
	Trench Location:	Beginning Coordinates:	Ending Coordinates:
<b>NON PCB OFFSITE DISPOSAL</b>	Storage Time:	Arrival Date:	Date Shipped:
	Offsite TSD	Facility Name:	Facility Address:
		TSD Process:	Landfill (D81): <input type="checkbox"/> Disposal Date Treatment (TO ___): <input type="checkbox"/> Treatment Date Specify Treatment Activity:
		Other (___): <input type="checkbox"/>	Specify Activity
<b>PCB OFFSITE DISPOSALS</b>	Storage Time:	Beginning Date:	Date Shipped:
	Offsite Disposal:	Facility Name:	Facility Address:

COMMENTS: 0000134

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. WA 789 000 8967	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.							
3. Generator's Name and Mailing Address J. R. Cooper 1114 N/ 100 N Area UNC 13-31B				A. State Manifest Document Number								
4. Generator's Phone ( 509 ) 373-4939				B. State Generator's ID								
5. Transporter 1 Company Name Rockwell Hanford		6. US EPA ID Number WA 789 000 8967		C. State Transporter's ID								
7. Transporter 2 Company Name NA		8. US EPA ID Number NA		D. Transporter's Phone 376-1420								
9. Designated Facility Name and Site Address Central Landfill Corrosive Trench		10. US EPA ID Number WA 789 000 8967		E. State Transporter's ID								
				F. Transporter's Phone								
				G. State Facility's ID								
				H. Facility's Phone (509) 376-6748								
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.		
a. <input type="checkbox"/> HM Non-regulated drums of oil-soaked soil						None None		12	DM	88	Ft <sup>3</sup>	None
b.												
c.												
d.												
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above						
15. Special Handling Instructions and Additional Information												
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.												
Certified by								Date				
Printed/Typed Name J.R. Cooper				Signature J.R. Cooper				L. F. Lust		Month Day Year 4/13/85		
17. Transporter 1 Acknowledgement of Receipt of Materials												
Printed/Typed Name Timothy W Toberg				Signature Timothy W Toberg				Month Day Year 4/15/85				
18. Transporter 2 Acknowledgement of Receipt of Materials												
Printed/Typed Name				Signature				Month Day Year				
19. Discrepancy Indication Space												
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.												
Printed/Typed Name D E Phelps								Signature D E Phelps		Date 4/15/85		

0000135

91121200136

GENERATOR  
TRANSPORTER  
FACILITY

OUTGOING LTR. NO.			
R85-0244			
INCOMING LTR. NO.			
AC			
REPLY DUE			
DIST:		LTR.	ENCL.
Ash, E.B.			
Bartholomew, D.C.			
Belofetta, M.			
Carey, J.M.			
Crawford, A.C.		X	
Deichman, J.L.			
Di Poi, C.V.			
Donahue, J.W.			
Gimers, R.I.			
Gruba, R.S.			
Hammond, R.D.			
Heineman, R.E.			
Kinzer, J.E.			
Knight, B.E.			
Larson, M.P.			
L.G.		X	
Metlock, R.G.			
McDermott, R.J.			
Ogletree, L.R.			
Pascoe, K.I.			
Patterson, J.W.		X	
Parkins, J.O.			
Reiser, A.L.			
Roecker, J.H.		X	
Salina, C.M.			
Weid, V.R.			
Zahn, L.L.			
Contract Administrator		X	
Central Files		X	
DR GROTH		X	
JC FULTON		X	
GR COX		X	
GG MEADE		X	
HA HARRER		X	
WF HAINE		X	
ED PROSSER		X	
DD OCH		X	
EB		X	
JION		X	
DATE FEB 05 1985			

Rockwell Hanford Operations  
 Energy Systems Group  
 P.O. Box 800  
 Richland, WA 99352



Rockwell  
 International

FEB 05 1985

In reply refer to letter R85-0244.

Mr. J. R. Cooper  
 1114N/100 N Area  
 UNC Nuclear Industries  
 Post Office Box 490  
 Richland, Washington 99352

Dear Mr. Cooper:

DISPOSAL ANALYSIS NO. 13-31

Reference: Chemical Waste Disposal Request, January 7, 1985

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

All packaging, labeling and marking of the waste must be completed in accordance with the prescribed instructions, which are based on Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. A partially completed manifest is attached for your use.

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste package will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifest. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench or to the 2727-S storage facility for subsequent offsite disposal is a generator responsibility and may be implemented after compliance with instructions in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting A. D. Poor (6-1420). The manifest and the attached Dangerous Waste Treatment, Storage and Disposal Record must accompany the shipment during transportation.



Rockwell  
International

Mr. J. R. Cooper

Page 2  
FEB 05 1985

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Mr. L. F. Lust (3-4802).

Very truly yours,

*H. A. Haerer*

H. A. Haerer, Project Manager  
Hazardous kWaste Program

HAH:LFL:ra

Att.

9112120138  
0000137

DISPOSAL ANALYSIS NO. 13-31

Offsite Disposal

Items listed for Offsite Disposal must be properly packaged, labeled and manifested for shipment to an offsite disposal facility in accordance with the State of Washington law (Chapter 173-303). The Hanford generator has the responsibility for packaging and for shipping the waste to the offsite staging facility, 2727-S/200 West. Offsite disposal shipments originating from this facility will be arranged by Rockwell.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for offsite disposal:

- o In accordance with 49 CFR 173.24, waste must be packaged in strong, tight, DOT-approved containers.
- o The DOT Label(s) specified in this Disposal Analysis must be applied to the container.
- o The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container.
- o The total weight, if over 110 pounds, must be marked on the container.
- o In accordance with 49 CFR 172.301 and 172.304, all marking must be legible, durable, and in a color which contrasts with the container.

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest and a Dangerous Waste Treatment, Storage and Disposal Record. These documents have been initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the manifest in the Generator's Certification block 16. After block 17 has been signed by the transporter and block 20 has been signed by the disposal site operator, the manifest and disposal record will be returned to SWP&DU, 2750-E/200 East for distribution of the copies.

0000138

Complete unshaded parts and forward to:  
 to: **DU**  
 E/A105/200E  
 Rockwell

9 1 1 2 1 2 0 1 1 0  
 Rockwell Hanford Operations  
**CHEMICAL WASTE POSAL REQUEST**

Logbook No. **13-31**  
 Manifest(s) cross-referen

Requested by **J.R. Cooper** Telephone Number **373-4939** Address **1114-N/100N** Company **UNC**  
 Signature *J.R. Cooper* Date **1/7/85** Radiation Monitoring Release Survey Card Number (If Applicable)

WASTE DESCRIPTION (For additional items, continue on the back of this form)

Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Sample 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.6 90.0	L	P	U	F	
Sample 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Sample 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	None	MT	
1.	12	55Gal	2400	Steel Drum	Oil saturated Soil	Oil, Dirt, Sand	100.0	S	None	U	F	
2.	3*	55Gal	600	Steel Drum	Oil	PNA PCB Oil	2% <50PPM 98%	L	F	U	F	
*Containers 1, 13 and 26. See attached HEHF analysis report.												

**INSTRUCTIONS**

- COLUMN A - ITEM NUMBER** - Item number for each unique waste.
- COLUMN B - NUMBER OF CONTAINERS** - Number of containers of a unique waste to be disposed.
- COLUMN C - CONTAINER SIZE** - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.
- COLUMN D - TOTAL WASTE QUANTITY** - Total waste quantity (in kilograms only) of each unique waste to be disposed.
- COLUMN E - CONTAINER DESCRIPTION** - Specify container type e.g. steel drum, glass bottle.
- COLUMN F - WASTE DESCRIPTION** - Specify trade name or general description of each unique waste.
- COLUMN G - CHEMICAL COMPONENTS** - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

- COLUMN H - WEIGHT (%)** - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.
- COLUMN I - PHYSICAL STATE** - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.
- COLUMN J - HAZARDS** - Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.
- COLUMN K - WASTE STATUS** - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).
- COLUMN L - CONTAINER STATUS** - Indicate whether container is: Full (F), Partially Full (PF), Empty (< 1 in) (MT), Triple Rinsed (TR).

DISPOSAL ANALYSIS NO. 13-31

ITEM NO.	CONTAINER NO.	DOT SHIPPING NAME	DOT HAZARD CLASS	DOT IDENTIFICATION NUMBER	DOT LABEL	EPA NUMBER	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
----------	---------------	-------------------	------------------	---------------------------	-----------	------------	-------------------	-------------------	------------------------

OFFSITE DISPOSAL

2	1,13,26	Waste Poisonous Liquid, NOS	Poison B	UN2810	Poison	WPO3	3	55-gallon drums	55 gallons
---	---------	-----------------------------------	----------	--------	--------	------	---	--------------------	------------

ONSITE DISPOSAL

1	2-12, 25	Non-regulated Oil-soaked sand	None	None	None	None	12	55-gallon drums	55 gallons
---	----------	----------------------------------	------	------	------	------	----	--------------------	------------

0000140



HANFORD ENVIRONMENTAL  
HEALTH FOUNDATION

3-47

December 28, 1984

CO 9223

BEST AVAILABLE COPY

UNC Nuclear Industries  
105KE Building  
100KE Area

Attn: R. V. Berg

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY ANALYSIS, POLYNUCLEAR AROMATIC HYDROCARBON ANALYSIS, pH ANALYSIS, PCB ANALYSIS, AND FLASHPOINT TEST - 100 K AREA

Following are the results of the gas chromatograph/mass spectroscopy (GC/MS) analysis, polynuclear aromatic hydrocarbon analysis (PNA) and pH analysis of selected samples; the flashpoint test of 17 liquid wastes; and the PCB analysis of 28 waste soil, sludge and liquid samples received October 29, 1984.

PNA's were analyzed by high pressure liquid chromatography following method WAC 173-303 Chemical Tests App. G. The flashpoint test followed ASTM Method D93-80 using a Pensky-Marten closed cup tester. PCB's were analyzed by gas chromatography using a capillary column and electron capture detector. The reported PCB part per million (ppm) values are on a weight/weight basis.

Sample Number	Sample Type	GC/MS Results	opm PCB's	pH (aqueous phase)	Flash-point °C
1	sludge	Main constituents: C <sub>6</sub> -C <sub>16</sub> aliphatics, trimethylbenzene isomers, mono-, di-, tri- methyl naphthalene isomers	3		48
2	soil		<1		
3	soil		<1		
4	soil		<1		
5	soil		<1		
6	soil		<1		
7	soil		<1		
8	soil		<1		
9	soil		<1		
10	soil		<1		
11	soil		<1		
12	soil		<1		
13	soil		<1		
14	soil		<1		
15	soil		<1		
16	soil		<1		
17	soil		<1		
18	soil		<1		
19	soil		<1		
20	soil		<1		
21	soil		<1		
22	soil		<1		
23	soil		<1		
24	soil		<1		
25	soil		<1		
26	soil		<1		
27	soil		<1		
28	soil		<1		
29	liquid		6		89
30	liquid		<1		>100
31	liquid	Main constituents: water, butoxy-2-cyanide	<1	12.3	60

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R. V. Berg

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December 28, 1984

Sample Number	Sample Type	GC/MS Results	ppm PCB's	pH (aqueous phase)	Flash-point °C
16	liquid		<1		>100
17	liquid		<1		>100
18	liquid		<1	-7	>100
19	liquid		<1	-7	>100
20	liquid		<1		>100
21	liquid		5		85
22	liquid		2	-7	75
23	liquid		<1	-7	>100
24	liquid		<1	-7	>100
	soil		<1		
	liquid	Main constituent: C9-C16 aliphatics, trimethyl benzene isomers, mono-, di-, trimethyl naphthalene isomers	<1	-7	58
27	liquid		<1	-7	>100
28	liquid		<1	-7	>100

\*Samples 13 and 14 were analyzed for PNA. Analysis showed Sample 13 to contain 2% PNA and Sample 14 to contain less than 50 ppm. As stated in WAC 173-303, waste containing PNA at a level greater than 1% is designated as extremely hazardous waste. It should be noted that Samples 1 and 26 are of the same composition as Sample 13 and should be considered designated as extremely hazardous waste. Samples 16-24, 27 and 28 are similar to Sample 14 and should not contain hazardous amounts of PNA's.

If you have any questions regarding this report, please contact Environmental Health Sciences.

*H. L. Boorse*

H. L. Boorse  
Environmental Health Sciences

kw

cc: B. Cochrane, UNC

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Onsite Disposal (D81): <input type="checkbox"/> Oxidizer Trench <input type="checkbox"/> Corrosive Trench <input type="checkbox"/> Asbestos Trench	End Function: <b>UNC</b>	Manifest Number: <b>UNC 13-31</b>
Non-PCB Onsite Storage (SO1)/Offsite TSD: <input checked="" type="checkbox"/>	Company: <b>UNC</b>	Building/Area: <b>1114 N/100 N</b>
PCB Onsite Storage/Offsite Disposal: <input type="checkbox"/>	Contact Person: <b>J. R. Cooper</b>	
Address/Phone: <b>1114 N/100 N Area 373-4939</b>		

**PHYSICAL DESCRIPTION**

Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	Waste Poisonous Liquid, NOS (3 drums)	Poison B	WP03	600	22	1114 N/100 N
2						
3						
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form.

Total Weight (Front & Back) **600** KG      Total Volume (Front & Back) **22** FT<sup>3</sup>

**TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)**

<b>ONSITE DISPOSAL:</b>	Disposal Date:	Signature: Disposer:
	Trench Location:	Beginning Coordinates: N      W Ending Coordinates: N      W
<b>NON PCB OFFSITE DISPOSAL</b>	Storage Time:	Arrival Date:
	Offsite TSD	Date Shipped:
		Facility Name:
		Facility Address:
	TSD Process:	Landfill (D81): <input type="checkbox"/> Disposal Date Treatment (TO ____): <input type="checkbox"/> Treatment Date Specify Treatment Activity  Other (____): <input type="checkbox"/> Specify Activity
<b>PCB OFFSITE DISPOSALS</b>	Storage Time:	Beginning Date:
	Offsite Disposal:	Date Shipped:
		Facility Name:
		Facility Address:

**COMMENTS:**

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Print or type. (Form designed for use on elite (12-pitch) typewriter.)

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. WA 789 000 8967		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address J. R. Cooper 1114 N/100 N		UNC 13-31A		A. State Manifest Document Number		B. State Generator's ID					
4. Generator's Phone ( 509 ) 373-4939		6. US EPA ID Number WA 789 000 8967		C. State Transporter's ID		D. Transporter's Phone 376-1420					
5. Transporter 1 Company Name Rockwell Hanford		8. US EPA ID Number NA		E. State Transporter's ID		F. Transporter's Phone					
7. Transporter 2 Company Name NA		10. US EPA ID Number WA 789 000 8967		G. State Facility's ID		H. Facility's Phone (509) 378-3679					
9. Designated Facility Name and Site Address 2727-S/200 West		11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol			
a. <input type="checkbox"/> HM Waste Poisonous Liquid, NOS		Poison B UN2810		3 DM		1320		P WP03			
b.											
c.											
d.											
J. Additional Descriptions for Materials Listed Above 3 drums of oil containing 2% PAH (poly aromatic hydrocarbons)				K. Handling Codes for Wastes Listed Above							
15. Special Handling Instructions and Additional Information											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.											
Printed/Typed Name				Signature				Certified by		Date	
								L. E. Lust			
17. Transporter 1 Acknowledgement of Receipt of Materials											
Printed/Typed Name				Signature				Date			
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name				Signature				Date			
19. Discrepancy Indication Space											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name				Signature				Date			

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<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>MA 789 000 8967</b>	Manifest Document No.		2. Page 1 of <b>1</b>	Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address <b>J. R. Cooper 1114 N/ 100 N Area URC 13-313</b>					A. State Manifest Document Number						
4. Generator's Phone ( <b>509</b> ) <b>373-4939</b>					B. State Generator's ID						
5. Transporter 1 Company Name <b>Rockwell Hanford</b>			6. US EPA ID Number <b>MA 789 000 8967</b>		C. State Transporter's ID						
7. Transporter 2 Company Name <b>MA</b>			8. US EPA ID Number <b>MA</b>		D. Transporter's Phone <b>376-1420</b>						
9. Designated Facility Name and Site Address <b>Central Landfill Corrosive Trench</b>					E. State Transporter's ID						
					F. Transporter's Phone						
					G. State Facility's ID						
					H. Facility's Phone <b>(509) 376-6748</b>						
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
	a. <b>Non-regulated drums of oil-soaked soil</b> <b>None</b> <b>None</b>						<b>12</b>	<b>DM</b>	<b>88</b>	<b>Ft<sup>3</sup></b>	<b>None</b>
	b.										
	c.										
	d.										
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.											
Printed/Typed Name								Signature		Date	
								<b>L. F. Lust</b>			
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials										
	Printed/Typed Name					Signature					Date
FACILITY	18. Transporter 2 Acknowledgement of Receipt of Materials										
	Printed/Typed Name					Signature					Date
19. Discrepancy Indication Space											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name								Signature		Date	

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<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>WA 789 000 8967</b>	Manifest Document No.	2. Page 1 of <b>1</b>	Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address <b>J. R. Cooper 1114 N/ 100 N Area UNC 13-31B</b>				A. State Manifest Document Number						
4. Generator's Phone ( <b>509</b> ) <b>373-4939</b>				B. State Generator's ID						
5. Transporter 1 Company Name <b>Rockwell Hanford</b>		6. US EPA ID Number <b>WA 789 000 8967</b>		C. State Transporter's ID						
7. Transporter 2 Company Name <b>NA</b>		8. US EPA ID Number <b>NA</b>		D. Transporter's Phone <b>376-1420</b>						
				E. State Transporter's ID						
				F. Transporter's Phone						
9. Designated Facility Name and Site Address <b>Central Landfill Corrosive Trench</b>		10. US EPA ID Number <b>WA 789 000 8967</b>		G. State Facility's ID						
				H. Facility's Phone <b>(509) 376-6748</b>						
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.	
a. <b>Non-regulated drums of oil-soaked soil</b>					No. <b>12</b> Type <b>DM</b>		<b>88</b>	<b>Ft<sup>3</sup></b>	<b>None</b>	
b.										
c.										
d.										
J. Additional Descriptions for Materials Listed Above					K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.										
Printed/Typed Name <b>Joe Cooper</b>								Signature <i>Joe Cooper</i>		Date <b>4/13/85</b>
Printed/Typed Name <b>Timothy W Towse</b>								Signature <i>Timothy W Towse</i>		Date <b>4/15/85</b>
Printed/Typed Name								Signature		Date
19. Discrepancy Indication Space										
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.										
Printed/Typed Name <b>D F Phillips</b>								Signature <i>D F Phillips</i>		Date <b>4/15/85</b>

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GENERATOR

TRANSPORTER

FACILITY

1-16-85

Rockwell Hanford Operations DANGEROUS WASTE TREATMENT, STORAGE AND DISPOSAL RECORD

STORAGE/DISPOSAL ACTIVITY ORIGINATOR
Onsite Disposal (D81): [ ] Oxidizer Trench [x] Corrosive Trench [ ] Asbestos Trench
Non-PCB Onsite Storage (SOI)/Offsite TSD: [ ]
PCB Onsite Storage/Offsite Disposal: [ ]
End Function: PK Manifest Number: RHO 13-33
Company: RHO Building/Area: 202A/200 East
Contact Person: RL Nelson
Address/Phone: 202A/200 East

PHYSICAL DESCRIPTION

Table with 7 columns: Item No., Description Of Waste, DOT Hazard Class, WDOE DW Number(s), Weight (KG), Volume Of Waste and Container (FT³), Generating Facility Bldg./Area. Row 1: 1, Waste Non-regulated empty drums (7), None, None, 223, 51, 202A/200 East.

For additional items, continue on the back of this form. Total Weight (Front & Back) 223 KG Total Volume (Front & Back) 51 FT³

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)

ONSITE DISPOSAL: Central Landfill Disposal Date: 1-16-85 Signature: [Signature]
Trench Location: 19N Beginning Coordinates: N 115 W 19N Ending Coordinates: N 120 W 19N
NON PCB OFFSITE DISPOSAL Storage Time: Arrival Date: Date Shipped: Facility Name: Facility Address:
TSD Process: Landfill (D81): [ ] Disposal Date Treatment (TO): [ ] Treatment Date Specify Treatment Activity: Other ( ): [ ] Specify Activity
PCB OFFSITE DISPOSALS Storage Time: Beginning Date: Date Shipped: Facility Name: Facility Address:

COMMENTS: See item B, Uniform Hazardous Waste Manifest, RHO 13-33, Oxidizer, 00001, 30 gal

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. WA 789 000 8967		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address RL Nelson 2414 200 East KHO 13-33						A. State Manifest Document Number				
4. Generator's Phone (509) 373-2323						B. State Generator's ID				
5. Transporter 1 Company Name Newkirk Hazard				6. US EPA ID Number WA 789 000 8967		C. State Transporter's ID				
7. Transporter 2 Company Name NA						D. Transporter's Phone 376-1420				
9. Designated Facility Name and Site Address Central Landfill Coville Trench						8. US EPA ID Number NA		E. State Transporter's ID		
						10. US EPA ID Number WA 789 000 8967		F. Transporter's Phone		
						G. State Facility's ID				
						H. Facility's Phone (509) 376-6748				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. Non-regulated empty drums, white. None None						7		51	Ft <sup>3</sup>	None
b. 2wt/100lbs Corrosive 15 Oxid 2el 30gal 1										
c.										
d. BEST AVAILABLE COPY										
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information _____ J. Nelson										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.										
Printed/Typed Name ARNOLD L. NELSON				Signature Arnold L. Nelson		Date 1/15/95				
17. Transporter 1 Acknowledgement of Receipt of Materials						Date				
Printed/Typed Name J. A. Alford				Signature J. A. Alford		Date 1/15/95				
18. Transporter 2 Acknowledgement of Receipt of Materials						Date				
Printed/Typed Name				Signature		Date				
19. Discrepancy Indication Space										
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						Date				
Printed/Typed Name D. E. Phelps				Signature D. E. Phelps		Date 1/16/95				

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<b>STORAGE/DISPOSAL ACTIVITY</b>		<b>ORIGINATOR</b>	
Onsite Disposal (D81):	<input type="checkbox"/> Oxidizer Trench <input checked="" type="checkbox"/> Corrosive Trench <input type="checkbox"/> Asbestos Trench	End Function: <b>PK</b>	Manifest Number: <b>RHO 13-33</b>
		Company: <b>RHO</b>	Building/Area: <b>202A/200 East</b>
Non-PCB Onsite Storage (SOI)/Offsite TSD: <input type="checkbox"/>		Contact Person: <b>RL Nelson</b>	
PCB Onsite Storage/Offsite Disposal: <input type="checkbox"/>		Address/Phone: <b>202A/200 East</b>	

PHYSICAL DESCRIPTION						
Item No.	Description Of Waste	DOT Hazard Class	WDOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	Waste Non-regulated empty drums (7)	None	None	223	51	202A/200 East
2						
3						
4						
5						
6						
7						
8						
9						
10						
For additional items, continue on the back of this form.				Total Weight (Front & Back) <b>223</b> KG	Total Volume (Front & Back) <b>51</b> FT <sup>3</sup>	

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)			
ONSITE DISPOSAL: <b>Central Landfill</b>	Disposal Date: <b>1-16-85</b>	Signature: Disposer <b>T.R. Anderson</b>	
	Trench Location: <b>19N</b>	Beginning Coordinates: N <b>115</b> W <b>19N</b>	
		Ending Coordinates: N <b>120</b> W <b>19N</b>	
NON PCB OFFSITE DISPOSAL	Storage Time:	Arrival Date:	
	Offsite TSD	Date Shipped:	
		Facility Name:	
		Facility Address:	
	TSD Process:	Landfill (D81): <input type="checkbox"/> Disposal Date	
		Treatment (TO ____): <input type="checkbox"/> Treatment Date	
		Specify Treatment Activity	
		Other (____): <input type="checkbox"/>	
		Specify Activity	
PCB OFFSITE DISPOSALS	Storage Time:	Beginning Date:	
	Offsite Disposal:	Date Shipped:	
		Facility Name:	
		Facility Address:	

COMMENTS:  
See item B, Uniform Hazardous Waste Manifest, RHO 13-33, Oxidizer 0000149 drum, 30 gal

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Rockwell Hanford Operations

## CHEMICAL WASTE DISPOSAL REQUEST

Complete unshaded parts and forward

to: DU

E/A105/200E

Rockwell

Logbook No.

Manifest(s) cross-referenc

Requested by

R.L. NELSON

Telephone Number

373-2323

Address

202A/200E

Company

RHO

Signature

Ronald L. Nelson

Date

1-15-85

Radiation Monitoring Release Survey

Card Number (If Applicable)

## WASTE DESCRIPTION (For additional items, continue on the back of this form)

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	None	MT	
1	6	55 GAL	0	STEEL DRUM	EMPTY FERROUS SULFAMATE	FeSO <sub>4</sub>		L	C	NONE	MT	
2	1	30 GAL	0	STEEL DRUM	EMPTY POTASSIUM PERMANGANATE	KMnO <sub>4</sub>		S	O	NONE	MT	

## INSTRUCTIONS

**COLUMN A - ITEM NUMBER** - Item number for each unique waste.

**COLUMN B - NUMBER OF CONTAINERS** - Number of containers of a unique waste to be disposed.

**COLUMN C - CONTAINER SIZE** - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.

**COLUMN D - TOTAL WASTE QUANTITY** - Total waste quantity (in kilograms only) of each unique waste to be disposed.

**COLUMN E - CONTAINER DESCRIPTION** - Specify container type e.g. steel drum, glass bottle.

**COLUMN F - WASTE DESCRIPTION** - Specify trade name or general description of each unique waste.

**COLUMN G - CHEMICAL COMPONENTS** - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

**COLUMN H - WEIGHT (%)** - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.

**COLUMN I - PHYSICAL STATE** - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.

**COLUMN J - HAZARDS** - Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.

**COLUMN K - WASTE STATUS** - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).

**COLUMN L - CONTAINER STATUS** - Indicate whether container is: Full (F), Partially Full (PF), Empty (1 in) (MT), Triple Rinsed (TR).

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On Friday, November 8, 1985, trench #19-N, the Oxidizer Trench at the Central Landfill was excavated in order to remove drums containing sodium nitrite. All other waste drums previously manifested to this trench were also removed. The following information is to be attached to each hazardous waste manifest which was affected by the excavation.

Manifest #	Status of Waste Drums After Trench Excavation:
RHO-13-33	Drums disposed to trash trench, central landfill.
PNL-7-23	Drums were returned back to oxidizer trench.
UNC-12-15B	Drums were returned back to oxidizer trench.
RHO-5-31	13 drums of sodium nitrite were not located in the oxidizer trench. It is assumed that burial took place in the corrosive trench, since the manifest gives a disposal date to the chemical trench.
RHO-13-9	Drums were disposed to trash trench, central landfill.
RHO-11-29	Drums were disposed to trash trench, central landfill.
RHO-13-5	Drums were disposed to trash trench, central landfill.
RHO-11-3	Drums were disposed to trash trench, central landfill.
PNL-7-25	2 lab packs in this disposal request were not located in the oxidizer trench. It is assumed that past burial occurred in the corrosive trench, since the manifest shows disposal in the chemical trench.
RHO-10-31	Drums were disposed to trash trench, central landfill.
PNL-6-9	18 Drums of sodium nitrite were transported to the 2727-S storage facility/200 West because of their EHW designation. For the 10 drums of hydrated nickel listed on the manifest, status is: 1 drum was also transported to 2727-S, for storage (EHW because of carcinogenic waste designation). At time of transport drum was not known. The hydrated nickel drum was opened at 2727-S for clear identification. The other 9 drums of hydrated nickel were not found in the oxidizer trench. It is assumed they were buried in the corrosive trench.
RHO-9-33	Drums redispensed to the oxidizer trench.
PNL-5-17	Drums were disposed to trash trench, central landfill.

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<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. WA 789 000 8967	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address L. GUERRA 2713 W/200W 4. Generator's Phone ( 509 ) 373-2113				RHO-15-13-TRASH		A. State Manifest Document Number		
5. Transporter 1 Company Name ROCKWELL HANFORD OPERATIONS				6. US EPA ID Number WA 789 000 8967		B. State Generator's ID		
7. Transporter 2 Company Name NA				8. US EPA ID Number NA		C. State Transporter's ID		
9. Designated Facility Name and Site Address CENTRAL LANDFILL TRASH TRENCH (NON-Hazardous)				10. US EPA ID Number WA 789 000 8967		D. Transporter's Phone 376-1420		
						E. State Transporter's ID		
						F. Transporter's Phone		
						G. State Facility's ID		
						H. Facility's Phone 509/376-6748		
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
	a.	TRIPLE RINSED BANVEL CONTAINERS	NONE	NONE	28	DF	0	NA
	b.	TRIPLE RINSED 2,4-D Containers	NONE	NONE	45	DM	0	NA
	c.	TRIPLE RINSED KROVAR CONTAINERS	NONE	NONE	1	DF	0	NA
	d.							
J. Additional Descriptions for Materials Listed Above  53 NON-HAZARDOUS, TRIPLE RINSED HERBICIDE CONTAINERS						K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.								
Printed/Typed Name Lupe GUERRA				Signature <i>Lupe Guerra</i>			Date 5   16   85	
17. Transporter 1 Acknowledgement of Receipt of Materials								
Printed/Typed Name Lupe GUERRA				Signature <i>Lupe Guerra</i>			Date 5   16   85	
18. Transporter 2 Acknowledgement of Receipt of Materials								
Printed/Typed Name				Signature			Date	
19. Discrepancy Indication Space								
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.								
Printed/Typed Name D E Phelps				Signature <i>D E Phelps</i>			Date 5   16   85	

91121200143

# Internal Letter



Rockwell International

Date: May 6, 1985

No . 05000-HAH-85-39

TO: (Name, Organization, Internal Address)  
. L. Guerra  
. 2713-W/200W

FROM: (Name, Organization, Internal Address, Phone)  
. H. A. Haerer  
. .  
. .  
. 3-4216

Subject: Disposal Analysis No. RHO-15-13

Ref: Chemical Waste Disposal Request, April 25, 1985

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

All packaging, labeling, and marking of the waste must be completed in accordance with the prescribed instructions, which are based on U. S. Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. A partially completed manifest is attached for your use.

After packaging, labeling, and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, a SWP&DU representative will sign the manifest. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented following compliance with the disposal instructions for Onsite Disposal in the subject Disposal Analysis, completion of the manifest and certification by the SWP&DU. Transportation arrangements can be made by contacting A. D. Poor at 6-1420.

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact J. A. Reddick (3-4733).

*H. A. Haerer*  
H. A. Haerer, Project Manager  
Hazardous Waste Program

HAH:JAR:kh

Att.

cc: G. R. Cox *GRC*  
D. R. Groth *DRG*

0000153

91121300154

DISPOSAL ANALYSIS NO. RHO-15-13

Central Landfill Trash Trench

Items listed for Trash Trench Disposal must be properly packaged, labeled, and manifested for disposal at the Hanford Central Landfill.

The waste generator must comply with the following requirements for packaging, labeling, and marking wastes for onsite disposal:

- o The DOT Label(s) specified in this Disposal Analysis must be applied to the container. Labels may be obtained from Rockwell Central Stores.
- o Each container must be legibly numbered using the Disposal Analysis No. 15-13 TRASH followed by a numerically consecutive number for each drum, i.e., drum one is 15-13-TRASH-1 while the second drum is 15-13-TRASH-2, etc.
- o The 2.5 gallon plastic containers, 5 gallon metal containers, and plastic liner from the 50-lb cardboard container must all be triple rinsed. Each rinsing must use a volume of water at least equal to 10% of the capacity of the container or inner liner.
- o The rinsates must be used in the same manner as the original contents to kill weeds.
- o All hazardous material labels must be removed from the containers, or the containers must be covered during transport so that the labels are not visible.

0000154

9112130015

DISPOSAL ANALYSIS NO. RHO-15-13

ITEM NO.	DOT HAZARD CLASS	DOT SHIPPING NAME	EPA NUMBER	DOT IDENTIFICATION NUMBER	DOT LABEL	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
<u>OFFSITE DISPOSAL</u>								
<u>ONSITE DISPOSAL</u>								
TRASH TRENCH								
15-13-1 through 15-13-19	EMPTY	TRIPLE RINSED BANVEL CONTAINERS	NONE	NONE	NONE	19	2½ gal PLASTIC	0
15-13-20 through 15-13-52	EMPTY	TRIPLE RINSED 2,4-D CONTAINERS	NONE	NONE	NONE	33	5 gal METAL	0
15-13-53	EMPTY	TRIPLE RINSED KROVAR CONTAINER	NONE	NONE	NONE	1	50 lb CARDBOARD PLASTIC LINER	0

0000155

**REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE**

RHO-15-13

**GENERATION:** The Generator should complete Part I and forward this form to:

WS&DT  
202-S/200 West  
Rockwell

- A. Generator's Name: L. GUERRA Phone: 3-2351 Address: 2713-W Company: ROCKWELL  
 B. Custodian's Name: D. ROUNTRY Phone: 3-2113 Address: MO936/200W 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)			Hazard Class
				Sol.	Liq.	Gas	
1. BANVEL	19	2.5 Gallon Plastic	19	X			*
2. 2.4-D	33	5 Gallon METAL	33	X			*
3. KROUAR	1	50 lb. CARDBOARD	1	X			
4.		Plastic Bag CONTAINING CHEMICALS?					
5.							

- 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: CHEMICAL VAN 200-W  
 H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: (NOT APPLICABLE) DID NOT ENTER RADIATION ZONE  
 Generator's Signature: [Signature] Date: 4-25-85

**II. APPROVAL** A-119 RM

- A. Approved for disposal by Name: \_\_\_\_\_ Phone: \_\_\_\_\_ Address \_\_\_\_\_ Co.: \_\_\_\_\_  
 Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
 B. Packaging Requirements (specify): \_\_\_\_\_  
 C. Disposal Location: \_\_\_\_\_ Chemical Trench, \_\_\_\_\_ Asbestos Trench,  
 (check one) \_\_\_\_\_ 212-P (Storage), \_\_\_\_\_ Other

**III. TRANSPORTATION/DISPOSAL**

- A. Transporter(s) Name: \_\_\_\_\_ Phone: \_\_\_\_\_ Address: \_\_\_\_\_ Company \_\_\_\_\_  
 B. Date Transported/Disposed: \_\_\_\_\_  
 C. Transporter(s) Signature: \_\_\_\_\_

0000156

DISPOSAL ANALYSIS NO. RHO-15-13

ITEM NO.	DOT HAZARD CLASS	DOT SHIPPING NAME	EPA NUMBER	DOT IDENTIFICATION NUMBER	DOT LABEL	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
<u>OFFSITE DISPOSAL</u>								
<u>ONSITE DISPOSAL</u>								
TRASH TRENCH								
15-13-1 through 15-13-19	EMPTY TRIPLE RINSED BANVEL CONTAINERS	NONE	NONE	NONE	NONE	19	2½ gal PLASTIC	0
15-13-20 through 15-13-52	EMPTY TRIPLE RINSED 2,4-D CONTAINERS	NONE	NONE	NONE	NONE	33	5 gal METAL	0
15-13-53	EMPTY TRIPLE RINSED KROVAR CONTAINER	NONE	NONE	NONE	NONE	1	50 lb CARDBOARD PLASTIC LINER	0

50000157

91121970159

Rockwell Hanfr Operations

## CHEMICAL WASTE DISPOSAL REQUEST

Complete unshaded parts and forward  
to: S DU  
2750E/A105/200E  
Rockwell

Logbook No.

Manifest(s) cross-reference  
RHO-15-13

Requested by

Telephone Number

Address

Company

Lupe GUERRA

373-2351

2713-LJ

RHO

Signature

Lupe Guerra

Date

5-16-85

Radiation Monitoring Release Survey

Card Number (If Applicable) (NOT Applicable)

WASTE DESCRIPTION (For additional items, continue on the back of this form)

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	None	MT	
1	30	2 1/2 Gal.	0	PLASTIC	BANVEL		0	N/A	NONE	N/A	TR	
2	45	5 Gal.	0	Metal Can	2-4-D		0	N/A	NONE	N/A	TR	
3	1	50 lb	0	CARD BOARD	KROVAR		0	N/A	NONE	N/A	LINER TR	

## INSTRUCTIONS

**COLUMN A - ITEM NUMBER** - Item number for each unique waste.

**COLUMN B - NUMBER OF CONTAINERS** - Number of containers of a unique waste to be disposed.

**COLUMN C - CONTAINER SIZE** - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.

**COLUMN D - TOTAL WASTE QUANTITY** - Total waste quantity (in kilograms only) of each unique waste to be disposed.

**COLUMN E - CONTAINER DESCRIPTION** - Specify container type e.g. steel drum, glass bottle.

**COLUMN F - WASTE DESCRIPTION** - Specify trade name or general description of each unique waste.

**COLUMN G - CHEMICAL COMPONENTS** - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

**COLUMN H - WEIGHT (%)** - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.

**COLUMN I - PHYSICAL STATE** - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.

**COLUMN J - HAZARDS** - Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.

**COLUMN K - WASTE STATUS** - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).

**COLUMN L - CONTAINER STATUS** - Indicate whether container is: Full (F), Partially Full (PF), Empty (< 1 in) (MT), Triple Rinsed (TR).

**REQUEST TO DISPOSE OF NONRADIOACTIVE HAZARDOUS WASTE**

RHO-15-13

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

A. Generator's Name: L. GUERRA Phone: 3-2351 Address: 2773-W Company: ROCKWELL  
 B. Custodian's Name: D. ROUNTRY Phone: 3-2113 Address: MO 936/200w 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)			Hazard Class
				Sol.	Liq.	Gas	
1. BANVEL	79.30	2.5 Gallon Plastic	19	X			*
2. 2.4-D	33.45	5 Gallon METAL	33	X			*
3. KROUAR	1	50 lb. CARDBOARD	1	X			
4.		PLASTIC BAG CONTAINING CHEMICALS					
5.							

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: CHEMICAL VAN 200-W  
 H. "I hereby certify that this material has been released by Radiation Monitoring (if applicable) and that Part One of this form has been completed to the best of my knowledge." Survey Card Number: (NOT APPLICABLE) DID NOT ENTER RADIATION ZONE

Generator's Signature: [Signature] Date: 4-25-85

II. **APPROVAL** A-119 RM

A. Approved for disposal by Name: \_\_\_\_\_ Phone: \_\_\_\_\_ Address \_\_\_\_\_ Co.: \_\_\_\_\_  
 Date: \_\_\_\_\_ Signature: \_\_\_\_\_

B. Packaging Requirements (specify): \_\_\_\_\_

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

III. **TRANSPORTATION/DISPOSAL**

A. Transporter(s) Name: \_\_\_\_\_ Phone: \_\_\_\_\_ Address: \_\_\_\_\_ Company \_\_\_\_\_  
 B. Date Transported/Disposed: \_\_\_\_\_  
 C. Transporter(s) Signature: \_\_\_\_\_

0000159

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>WA 789 000 8967</b>	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.				
3. Generator's Name and Mailing Address <b>L. GUERRA 2713 W/200M 4. Generator's Phone ( 509 ) 373-2113</b>				A. State Manifest Document Number <b>RHO-15-13-TRASH</b>					
5. Transporter 1 Company Name <b>ROCKWELL HANFORD OPERATIONS</b>				6. US EPA ID Number <b>WA 789 000 8967</b>		C. State Transporter's ID			
7. Transporter 2 Company Name <b>NA</b>				8. US EPA ID Number <b>NA</b>		D. Transporter's Phone <b>376-1420</b>			
9. Designated Facility Name and Site Address <b>CENTRAL LANDFILL TRASH TRENCH (NON-Hazardous)</b>				10. US EPA ID Number <b>WA 789 000 8967</b>		E. State Transporter's ID			
						F. Transporter's Phone			
						G. State Facility's ID			
						H. Facility's Phone <b>509/376-6748</b>			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
						No.			
a. <b>TRIPLE RINSED BANVELBANVEL CONTAINERS</b> NONE NONE						<b>30</b> <del>NA</del>	<b>0</b>		<b>NA</b>
b. <b>TRIPLE RINSED 2,4-D Containers</b> NONE NONE						<b>45</b> <del>NA</del>	<b>0</b>		<b>NA</b>
c. <b>TRIPLE RINSED KROVAR CONTAINERS</b> NONE NONE						<b>1</b>	<b>0</b>		<b>NA</b>
d.									
J. Additional Descriptions for Materials Listed Above <b>53 NON-HAZARDOUS, TRIPLE RINSED HERBICIDE CONTAINERS</b>						K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations:						Date			
Printed/Typed Name <b>Lupe GUERRA</b>				Signature <i>Lupe Guerra</i>		Month Day Year <b>5   16   85</b>			
17. Transporter 1 Acknowledgement of Receipt of Materials						Date			
Printed/Typed Name <b>Lupe GUERRA</b>				Signature <i>Lupe Guerra</i>		Month Day Year <b>5   16   85</b>			
18. Transporter 2 Acknowledgement of Receipt of Materials						Date			
Printed/Typed Name				Signature		Month Day Year			
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						Date			
Printed/Typed Name <b>DE Phelps</b>				Signature <i>DE Phelps</i>		Month Day Year <b>5   16   85</b>			

000160

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>WA 789 000 8967</b>	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address <b>L. GUERRA 2713 W/200W 509 373-2113</b>				<b>RNO-15-13-TRASH</b>						
4. Generator's Phone ( 509 ) 373-2113				A. State Manifest Document Number		B. State Generator's ID				
5. Transporter 1 Company Name <b>ROCKWELL HANFORD OPERATIONS</b>		6. US EPA ID Number <b>WA 789 000 8967</b>		C. State Transporter's ID		D. Transporter's Phone <b>376-1420</b>				
7. Transporter 2 Company Name <b>NA</b>		8. US EPA ID Number <b>NA</b>		E. State Transporter's ID		F. Transporter's Phone				
9. Designated Facility Name and Site Address <b>CENTRAL LANDFILL TRASH TRENCH (NON-Hazardous)</b>				10. US EPA ID Number <b>WA 789 000 8967</b>		G. State Facility's ID				
				H. Facility's Phone <b>509/376-6748</b>						
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. <b>TRIPLE RINSED BANVEL CONTAINERS</b> NONE      NONE						No. <b>19</b>	Type <b>DF</b>	0		NA
b. <b>TRIPLE RINSED 2,4-D Containers</b> NONE      NONE						No. <b>38</b>	Type <b>DM</b>	0		NA
c. <b>TRIPLE RINSED KROVAR CONTAINERS</b> NONE      NONE						No. <b>1</b>	Type <b>DF</b>	0		NA
d.										
J. Additional Descriptions for Materials Listed Above <b>53 NON-HAZARDOUS, TRIPLE RINSED HERBICIDE CONTAINERS</b>						K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.										
Printed/Typed Name <i>Lupe Guerra</i>						Signature <i>[Signature]</i>			Date 5 11 86	
17. Transporter 1 Acknowledgement of Receipt of Materials										
Printed/Typed Name <i>[Name]</i>						Signature <i>[Signature]</i>			Date 5 11 86	
18. Transporter 2 Acknowledgement of Receipt of Materials										
Printed/Typed Name						Signature			Date	
19. Discrepancy Indication Space										
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.										
Printed/Typed Name <i>[Name]</i>						Signature <i>[Signature]</i>			Date 5 11 86	

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>WA 789 000 8967</b>		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address <b>L. GUERRA 2713 W/200M 509 373-2113</b>						DNO-15-13-TRASH				
4. Generator's Phone						A. State Manifest Document Number				
5. Transporter 1 Company Name <b>ROCKWELL HANFORD OPERATIONS</b>						B. State Generator's ID				
6. US EPA ID Number <b>WA 789 000 8967</b>						C. State Transporter's ID				
7. Transporter 2 Company Name <b>NA</b>						D. Transporter's Phone <b>376-1420</b>				
8. US EPA ID Number <b>NA</b>						E. State Transporter's ID				
9. Designated Facility Name and Site Address <b>CENTRAL LANDFILL TRASH TRENCH (NON-Hazardous)</b>						F. Transporter's Phone				
10. US EPA ID Number <b>WA 789 000 8967</b>						G. State Facility's ID				
						H. Facility's Phone <b>509/376-6748</b>				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. <b>TRIPLE RINSED BARVEL CONTAINERS</b>						No.	Type	0		NA
b. <b>TRIPLE RINSED 2,4-D Containers</b>						10	DF	0		NA
c. <b>TRIPLE RINSED KROVAR CONTAINERS</b>						33	DN	0		NA
d.						1	DF	0		NA
J. Additional Descriptions for Materials Listed Above <b>53 NON-HAZARDOUS, TRIPLE RINSED HERBICIDE CONTAINERS</b>						K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.										
Printed/Typed Name <i>L. Guerra</i>					Signature <i>[Signature]</i>		Date Month Day Year - - -			
17. Transporter 1 Acknowledgement of Receipt of Materials						Date				
Printed/Typed Name					Signature		Month Day Year			
18. Transporter 2 Acknowledgement of Receipt of Materials						Date				
Printed/Typed Name					Signature		Month Day Year			
19. Discrepancy Indication Space										
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						Date				
Printed/Typed Name					Signature		Month Day Year			

000162

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No. WA 789 000 8967

WHC-15-41-TRASH of 2

is not required by Federal law.

3. Generator's Name and Mailing Address R. D. Hensyel/WHC W/B-46/300 Area		A. State Manifest Document Number
4. Generator's Phone ( 509 ) 376-5891		B. State Generator's ID
5. Transporter 1 Company Name Rockwell Hanford Operations	6. US EPA ID Number WA 789 000 8967	C. State Transporter's ID
7. Transporter 2 Company Name		D. Transporter's Phone 376-1420
8. US EPA ID Number		E. State Transporter's ID
9. Designated Facility Name and Site Address Central Landfill: Trash Trench		F. Transporter's Phone
10. US EPA ID Number WA 789 000 8967		G. State Facility's ID
		H. Facility's Phone 376-6748

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
	No.	Type			
a. <input type="checkbox"/> HM Non-regulated empty drums (Propylene glycol) NONE NONE	2	DM	0	P	NONE
b. Non-regulated empty oil drums (Bone Dry) NONE NONE	34	DM	0	P	NONE
c. Non-regulated empty oil drums (Bone Dry) NONE NONE	1	DM	0	P	NONE
d. Non-regulated empty oil drums (Bone Dry)	6	DM	0	P	NONE

J. Additional Descriptions for Materials Listed Above Items a, b, c, and d are all empty, (Bone dry) Non-regulated, 55-gallon drums. (metal) <i>Item d. 15-gallon drums RTR</i>	K. Handling Codes for Wastes Listed Above
---	---

15. Special Handling Instructions and Additional Information  
Remove all bungs and lids on arrival at Central Landfill.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  
Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. *Verified by J.R.R. 11-13-85*

Printed/Typed Name RD Hensyel	Signature <i>RD Hensyel</i>	Month Day Year 11   14   85
----------------------------------	--------------------------------	--------------------------------

17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name J. A. Aldridge	Signature <i>J. A. Aldridge</i>	Month Day Year 11   14   85

18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.		
Printed/Typed Name M. J. FERLE	Signature <i>M. J. Ferle</i>	Month Day Year 11   14   85

91121900144

GENERATOR

TRANSPORTER

FACILITY

UNIFORM HAZARDOUS  
WASTE MANIFEST  
(Continuation Sheet)

21. Generator's US EPA ID No.  
WA 789 000 8967

Manifest  
Document No

22. Page  
2

Information in the unshaded  
areas is not required by Federal  
law.

23. Generator's Name

R. D. Hensyel/WHC  
W/B-46/300 Area

WHC-15-41-TRASH

L. State Manifest Document Number

M. State Generator's ID

24. Transporter Company Name

Rockwell Hanford Operations

25. US EPA ID Number

WA 789 000 8967

N. State Transporter's ID

O. Transporter's Phone 376-1420

25. Transporter Company Name

27. US EPA ID Number

P. State Transporter's ID

Q. Transporter's Phone

28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

29. Containers

No. Type

30. Total  
Quantity

31. Unit  
Wt/Vol

R.  
Waste No.

a.	Non-regulated empty drums (Kerosene) (Bone dry)	NONE	NONE	2	DM	0	P	NONE
b.	Non-regulated empty drums (Bone dry)	NONE	NONE	2	DM	0	P	NONE
c.	Non-regulated empty oil drum (Bone dry)	NONE	NONE	1	DM	0	P	NONE
d.	Non-regulated empty oil drum (Bone dry)	NONE	NONE	1	DM	0	P	NONE
e.	Non-regulated drum (Bunker C oil)	NONE	NONE	1	DM	<del>50</del> 850.22	P	NONE
f.	Non-regulated empty drum (Bone dry) (West Formula Cleaner Soap)	NONE	NONE	1	DM	0	P	NONE
g.								
h.								
i.								

S. Additional Descriptions for Materials Listed Above

Items a, b, c, d, and f are all empty (Bone dry),  
non-regulated 55-gallon drums.  
Item e, is a 55-gallon, non-regulated metal drum  
unused Bunker C oil. The Bunker C oil is a solid.

T. Handling Codes for Wastes Listed Above

32. Special Handling Instructions and Additional Information

Remove all bungs and lids on arrival at Central Landfill. (From Empty Drums Only)

33. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name

J. A. Aldridge

Signature

J. A. Aldridge

Date

Month Day Year

11 14 85

34. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name

MJ EBERLE

Signature

M. J. Eberle

Date

Month Day Year

11 14 85

35. Discrepancy Indication Space

000163

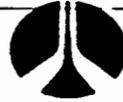
911210015

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		21. Generator's US EPA ID No. <b>WA 789 000 8967</b>		Manifest Document No. <b>WHC-15-41-TRASH</b>		2. Page 1 of 2		Information in the shaded areas is not required by Federal law.		
		3. Generator's Name and Mailing Address <b>R. D. Hensyel/HHC W/B-46/300 Area</b>				A. State Manifest Document Number		B. State Generator's ID		
4. Generator's Phone ( <b>509</b> ) <b>376-5891</b>				6. US EPA ID Number <b>WA 789 000 8967</b>		C. State Transporter's ID		D. Transporter's Phone <b>376-1420</b>		
5. Transporter 1 Company Name <b>Rockwell Hanford Operations</b>				8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone		
7. Transporter 2 Company Name				10. US EPA ID Number <b>WA 789 000 8967</b>		G. State Facility's ID		H. Facility's Phone <b>376-6748</b>		
9. Designated Facility Name and Site Address <b>Central Landfill: Trash Trench</b>										
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
						No.	Type			
GENERATOR	a.	Non-regulated empty drums (Propylene glycol)		NONE	NONE	2	DM	0	P	NONE
	b.	Non-regulated empty oil drums (Bone Dry)		NONE	NONE	34	DM	0	P	NONE
	c.	Non-regulated empty oil drums (Bone Dry)		NONE	NONE	1	DM	0	P	NONE
	d.	Non-regulated empty oil drums (Bone Dry)				6	DM	0	P	NONE
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above				
Items a, b, c, and d are all empty. (Bone dry) Nonregulated, 55-gallon drums. (metal) Item d. 15-gallon drums CORR										
15. Special Handling Instructions and Additional Information										
Remove all bungs and lids on arrival at Central Landfill.										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. <i>verified by RCRA 11-17-85</i>										
Printed/Typed Name <b>RD Hensyel</b>				Signature <i>RD Hensyel</i>				Month Day Year <b>11 14 85</b>		
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials									
	Printed/Typed Name <b>LA Akhiche</b>				Signature <i>LA Akhiche</i>				Month Day Year <b>11 14 85</b>	
	18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name				Signature				Month Day Year		
FACILITY	19. Discrepancy Indication Space									
	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name <b>MJ FERLE</b>				Signature <i>M. J. Ferle</i>				Month Day Year <b>11 14 85</b>		

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b> (Continuation Sheet)		21. Generator's US EPA ID No. <b>WA 789 000 8967</b>	Manifest Document No.	22. Page <b>2</b>	Information in the shaded areas is not required by Federal law.			
23. Generator's Name <b>R. D. Hensley/WHC W/B-46/300 Area</b>				L. State Manifest Document Number <b>WHA-15-41-TRASH</b>				
24. Transporter Company Name <b>Rockwell Hanford Operations</b>				25. US EPA ID Number <b>WA 789 000 8967</b>		N. State Transporter's ID		
26. Transporter Company Name				27. US EPA ID Number		O. Transporter's Phone <b>376-1420</b>		
						P. State Transporter's ID		
						Q. Transporter's Phone		
28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		29. Containers		30. Total Quantity	31. Unit Wt/Vol	R. Waste No.		
		No.	Type					
a.	Non-regulated empty drums (Kerosene) (Bone dry)	NONE	NONE	2	DM	0	P NONE	
b.	Non-regulated empty drums (Bone dry)	NONE	NONE	2	DM	0	P NONE	
c.	Non-regulated empty oil drum (Bone dry)	NONE	NONE	1	DM	0	P NONE	
d.	Non-regulated empty oil drum (Bone dry)	NONE	NONE	1	DM	0	P NONE	
e.	Non-regulated drum (Bunker C oil)	NONE	NONE	1	DM	500 752	P NONE	
f.	Non-regulated empty drum (Bone dry) (West Formula Cleaner Soap)	NONE	NONE	1	DM	0	P NONE	
g.								
h.								
i.								
S. Additional Descriptions for Materials Listed Above					T. Handling Codes for Wastes Listed Above			
Items a, b, c, d, and f are all empty (Bone dry), non-regulated 55-gallon drums. Item e, is a 55-gallon, non-regulated metal drum unused Bunker C oil. The Bunker C oil is a solid.								
32. Special Handling Instructions and Additional Information								
Remove all bungs and lids on arrival at Central Landfill. (From Empty Drums Only)								
TRANSPORTER	33. Transporter Acknowledgement of Receipt of Materials				Date			
	Printed/Typed Name <i>W.A. Albridge</i>		Signature <i>W.A. Albridge</i>		Month Day Year <i>11 14 85</i>			
TRANSPORTER	34. Transporter Acknowledgement of Receipt of Materials				Date			
	Printed/Typed Name <i>M.J. Eberle</i>		Signature <i>M.J. Eberle</i>		Month Day Year <i>11 14 85</i>			
FACILITY	35. Discrepancy Indication Space							
					<b>000165</b>			

91121370147

Rockwell Hanford Operations  
Energy Systems Group  
P.O. Box 800  
Richland, WA 99352



Rockwell  
International

MARK MANIFEST

All bungs, drum lids  
to be removed

In reply, refer to letter R85-4105

Mr. R. D. Hensyel  
Westinghouse Hanford Company  
P. O. Box 1970  
Richland, Washington 99352

prior to dumping  
Sanitary landfill.

Dear Mr. Hensyel:

DISPOSAL ANALYSIS NO. WHC-15-41

Ref: Chemical Waste Disposal Request, May 16, 1985

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

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

After packaging, labeling, and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, a SWP&DU representative will sign the manifest. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the 2727-S Storage Facility or to the Hanford Nonradioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented following compliance with the disposal instructions for Offsite and Onsite Disposal in the subject Disposal Analysis, completion of the manifest and certification by the SWP&DU. Transportation arrangements can be made by contacting Mr. A. D. Poor at 6-1420.

000166



Rockwell  
International

R. D. Hensyel  
Page 2

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact Ms. D. L. Lund on 3-4809..

Very truly yours,

D. R. Groth, Manager  
Solid Waste Processing & Disposal Unit

DRG/DLL/kh

Att.

000167

91121370119

DISPOSAL ANALYSIS WHC-15-41

Offsite Disposal

Items listed for Offsite Disposal must be properly packaged, labeled and manifested for shipment to an offsite disposal facility in accordance with E.P.A. regulations (40 CFR 262) and WDOE regulations (173-303). The Hanford Generator has the responsibility for packaging and for shipping the waste to the offsite staging facility, 2727-S/200 West. Offsite disposal shipments originating from this facility will be arranged by Rockwell.

The waste generator must comply with the following requirements for packaging, labeling and marking wastes for offsite disposal:

**Packaging:**

- In accordance with 49 CFR 173.24, waste must be packaged in strong, tight, DOT-approved containers.
- Drums must be completely empty.
- Bunges must be in place on the drum(s).

**Labeling:**

- Any DOT Labels specified in this Disposal Analysis must be applied to the containers. Labels may be obtained from Rockwell Central Stores.
- Each container must bear a completed EPA Hazardous Waste label.

**Marking:**

- The DOT Shipping Name and the DOT Identification Number specified in this Disposal Analysis must be marked on the container(s).
- Each container must be labeled using numbers 15-41-A-174, 15-41-A-175, and 15-41-A-179 through 15-41-A-182.
- In accordance with 49 CFR 172-301 and 172-304, all markings must be legible, durable, and in a color which contrasts with the containers.

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Central Landfill Sanitary Trench

Items listed for Onsite Disposal to the Central Landfill Nonradioactive Sanitary Landfill must be properly packaged, labeled, and manifested for disposal at the Hanford Nonradioactive Sanitary Landfill.

The waste generator must comply with the following requirements for packaging, labeling, and marking wastes for onsite disposal.

**Packaging:**

- Each drum must have all bungs tightly in place.

**Labeling:**

- No DOT Labels are required
- No EPA Hazardous Waste labels are required.

**Marking:**

- The DOT Shipping Name specified on the attached Disposal Analysis must be marked on the container(s).
- Each container must be legibly numbered using the Disposal Analysis numbers shown on the attached sheet.
- The weight of the drum must be marked on container if over 110 pounds (i.e., 15-41-TRASH-167 is 500 pounds).
- In accordance with 49 CFR 172.301 and 172.304, all markings must be legible, durable, and in a color which contrasts with the container(s).

All hazardous waste must be accompanied by a Uniform Hazardous Waste Manifest. The manifest will be initiated by the Rockwell Solid Waste Processing and Disposal Unit (SWP&DU). Both the waste generator and a representative from SWP&DU will sign the Generator's Certification Block 16. After Block 17 has been signed by the transporter and Block 20 has been signed by the disposal site operator, the manifest will be returned to SWP&DU, 2750E/200 East for distribution of the copies. In addition, a completed Treatment, Storage, and Disposal Record must accompany the manifest for all regulated wastes.

Special Note

As of May 20, 1985, all materials which will be shipped offsite require an Unconditional Radiological Release or an Exemption from Unconditional Survey signed by authorized personnel. Contact Radiation Protection Technologists before disposing of any waste.

000163

91121900171

DISPOSAL ANALYSIS NO. WHC-15-41

ITEM NO.	DOT HAZARD CLASS	DOT SHIPPING NAME	EPA NUMBER	DOT IDENTIFICATION NUMBER	DOT LABEL	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
<u>OFFSITE DISPOSAL</u>								
15-41-A-174, 15-41-A-175, and 15-41-A-179 through 15-41-A-181	ORM-A	1,1,1-Trichloro-ethane (Inhibited)	WT01 WP01	UN2831	EPA Hazardous Waste	5	DM	0
15-41-A-182	Flammable liquid	Flammable liquid, n.o.s. (Turco Fabrifilm)	U031, U002 D001, F005, WC02, WT02	UN1993	Flammable liquid & EPA Hazardous Waste	1	DM	0
<u>ONSITE DISPOSAL</u> <u>TRASH TRENCH</u>								
15-41-TRASH-168 and 15-41-TRASH-169	NONE	Non-regulated Empty drum (Propylene glycol)	NONE	NONE	NONE	2	DM	0
15-41-TRASH-126 through 15-41-TRASH-159	NONE	Non-regulated empty oil drums	NONE	NONE	NONE	34	DM	0
15-41-TRASH-160	NONE	Non-regulated empty oil drum	NONE	NONE	NONE	1	DM	0
15-41-TRASH-161 through 15-41-TRASH-166	NONE	Non-regulated empty oil drums	NONE	NONE	NONE	6	DM	0
15-41-TRASH-170 and 15-41-TRASH-171	NONE	Non-regulated empty drum (Kerosene)	NONE	NONE	NONE	2	DM	0

*not reported, 157, 146, 148*



FD-36 (Rev. 10-16-80)

DON'T SAY IT --- Write It!

DATE August 15, 1985

TO R. D. Henoyel

FROM Aenna St. Paul

SUBJECT: Item #13 on disposal request dated 5-16-85 (#6 Burner oil).

What I need you to do is write a DSI on the #6 Burner Oil called Bunker C, stating that this drum is a spill from the tanker truck and that it doesn't have any PCB in it. If we do this, we can bypass the testing on this one. Just send it to me. If you have any questions, please call me (3-4809). Thanks.

ALL

000172



VENDOR		VENDOR CODE	PRI RATE DO-E	REQUISITION NO. 120992	PURCHASE ORDER NO.
SHIP TO			THIS ORDER IS ACCEPTE		TERMS OF PAYMENT
1. Westinghouse Hanford Co. Rockwell Research Richland, WA 99362 2. Westinghouse Hanford Co. C/O Bichel Research, Hanford Works Richland, WA 99362 3.			TO: RICHLAND, WA		CODE
SHIPPING POINT			COMMENTS		
PURCHASING CLAUSES			ALLOWABLE		SCREENED EXCESS & INVENTORY

INSTRUCTIONS: REFER TO PROCUREMENT PROCEDURE NO.1 OR CONTACT PURCHASING FOR ASSISTANCE IN FILLING OUT THIS REQUISITION.

REQUISITION AUTHOR <b>CO Jarrett</b>	Area/Bldg./Rm <b>300/328</b>	Phone <b>3691</b>	FINAL DELIVERY TO (User) <b>LE Christy</b>	Area/Bldg./Rm <b>300/328</b>	Phone <b>3748</b>	DESTINATION DELIVERY DATE <b>1/27/78</b>	<input type="checkbox"/> Mandatory <input type="checkbox"/> Delrad
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ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE	DEL DATE	RECEIVED
1	1	drm	Cleaner West Formula 1196, No. 9500, for Machinery Floors (55 gal Drums).  Ref: West Chemical P. 26 S. Dawson Ph: 802-7676				
<b>EMERGENCY REASON 2</b>							

Item No. <b>V33200</b>	Cust Center or Gen. Ledger Account <b>101020</b>	Account Class or Sub Account	W.O., Proj., T/A, A/R	Cost Estimate <b>\$211</b>	REQUISITION APPROVED BY					
					<b>DE Newby</b> Date <b>1/24/78</b> Bldg. <b>329</b> Room <b>300</b> Area <b>1752</b>					
					QA ENGINEER      Date    Bldg.    Room    Area    Phone					
					FINANCIAL CONTROL      Date		COST APPROVAL      Date			

REFER TO QAR 4-1 OR CONTACT QA FOR ASSISTANCE IN COMPLETING THE BLOCKS BETWEEN THE DOUBLE LINES BELOW

END USE	QA LEVEL	QA APPROVED SUPPLIER REQ'D <input type="checkbox"/> YES <input type="checkbox"/> NO	APPLICABLE QA CLAUSES
RECEIPT INSP. REQ'D <input type="checkbox"/> YES <input type="checkbox"/> NO	FOR HEDL RECEIPT INSP. DELIVER TO:	Bldg./Phone	RECEIPT INSP. PLAN REQ'D <input type="checkbox"/> YES <input type="checkbox"/> NO
BY:	QA REP. MANAGER	Phone	SOURCE INSP. PLAN REQ'D. <input type="checkbox"/> YES <input type="checkbox"/> NO
SOURCE INSP. REQ'D. <input type="checkbox"/> YES <input type="checkbox"/> NO	BY:		PREPARED BY:

RECEIVED FROM <b>SAME</b>	SHIPPED VIA <b>11/10</b>	SHIPPING POINT <b>Emo. UNL/C</b>	FREIGHT BILL NO. <b>1237471</b>	FREIGHT BILL WT. <b>574</b>
CAR INITIAL AND NO.	PIECES <b>1</b>	FREIGHT CHGS.	COLLCT PRD. DATE REC'D <b>1/20/78</b>	DATE SHIPPED
PCS.FT.BILL	DAMAGE REPORT	RECEIVING REPORT		

000173

91121900175

DON'T SAY IT --- Write It!

DATE August 15, 1985  
1:40 pm

A. L. Lund

FROM

TO \_\_\_\_\_

Through a phone conversation with Andy Veteto of McCall Oil Co., it was verified that the #6 Burner oil called "Bunker C" would not have any PCB when new. McCall Oil does not use any PCB in any of their oil.

R. D. Herzogel will send DSI verifying that oil was new.

TO MAKE LIFE LAST, PUT SAFETY FIRST

91121300176

000174

1-800-10119-991

DONT SAY IT --- Write It!

DATE \_\_\_\_\_

FROM \_\_\_\_\_

TO \_\_\_\_\_  
Jim Gregory 6-4385 Westinghouse - about Cleaner West Formula 1196

West Chemical Products, Inc:

(609) 921-0501.

1-(800)-631-1652

Chad Tennant

1979 bankrupt company

"TO MAKE LIFE LAST, PUT SAFETY FIRST"

91121100177

000175

DON'T SAY IT --- Write It!

DATE 8-19-85

TO Deanne Lund

FROM Robert D Hensyef

Reference - Item #13 on Disposal request HEDL 85-17B dated 5-16-85  
55 gallon drum of #6 burner oil (Bunker C burner oil)

This drum is the results of a spill from a tank truck delivery.  
The oil was cleaned off the top of the storage bunkers. This  
oil is common and used by all the powerhouses at Newford.

This oil solidifies at  $>180^{\circ}$  (solid) - There should be no reason  
to assume there is any PCB in this oil

Thanks.  
R.D. Hensyef

91121970178

"TO MAKE LIFE LAST, PUT SAFETY FIRST"

9 1 1 2 1 7 7 0 1 7 9

Complete <input checked="" type="checkbox"/> parts and forward to: <b>Rockwell</b> 2750E/A105/200E Rockwell	<b>Rockwell Han Operations</b> <b>CHEMICAL WASTE DISPOSAL REQUEST</b>	Logbook No. HEDL 85 .1 Manifest(s) cross-reference <i>WHE-ales</i> <i>WHC-15-41</i>	
Requested by <b>R. D. Hensyel</b>	Telephone Number <b>376-5891</b>	Address <b>WHC/W/B-46</b>	Company <b>Westinghouse</b>
Signature <i>R. D. Hensyel</i> Date <b>5-16-85</b>		Radiation Monitoring Release Survey Card Number (If Applicable)	

WASTE DESCRIPTION (For additional items, continue on the back of this form)

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	None	MT	Drum Numbers
1	34	55 gal	0	See Drums	Empty oil drums	Oil	100.0	L	None	None	MT	126 to 159
2	1	30 gal	0	See Drums	Empty oil drums	Oil	100.0	L	None	None	MT	160
3	6	15 gal	0	See Drums	Ex-Freon, used for Oil	Oil	100.0	L	None	None	MT	161 to 166
4	2	55 gal	0	See Drums	Dow Frost Propylene Glycol	Propylene Glycol <i>FOR PROTECTIVE</i>	100.0	L			MT	168 to 169
5	2	55 gal	0	See Drums	Empty Kerosene	Kerosene	100.00	L				170 & 171
6	2	55 gal	0	See Drums	Plastic lined drums used in Powerhouse for transferring		100.0	L				172 & 173
7	2	55 gal	0	See Drums	Empty - Chlorthene	<i>(Water Treatment Soap) Inhibited (1) - Trichloroethane</i>	100.0	L				174 & 175
8	1	55 gal	0	See Drums	Empty - West Formula <i>Dunagel</i>	Mild soap	100.0	L	None	None	MT	176

---- cont. ----

**INSTRUCTIONS**

- COLUMN A - ITEM NUMBER** - Item number for each unique waste.
- COLUMN B - NUMBER OF CONTAINERS** - Number of containers of a unique waste to be disposed.
- COLUMN C - CONTAINER SIZE** - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.
- COLUMN D - TOTAL WASTE QUANTITY** - Total waste quantity (in kilograms only) of each unique waste to be disposed.
- COLUMN E - CONTAINER DESCRIPTION** - Specify container type e.g. steel drum, glass bottle.
- COLUMN F - WASTE DESCRIPTION** - Specify trade name or general description of each unique waste.
- COLUMN G - CHEMICAL COMPONENTS** - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

- COLUMN H - WEIGHT (%)** - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.
- COLUMN I - PHYSICAL STATE** - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.
- COLUMN J - HAZARDS** - Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.
- COLUMN K - WASTE STATUS** - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).
- COLUMN L - CONTAINER STATUS** - Indicate whether container is: Full (F), Partially Full (PF), Empty (< 1 in) (MT), Triple Rinsed (TR).

9 1 1 2 1 9 0 0 1 7 0

Complete unshaded parts and forward to: SWP&DU 2750E/A105/200E Rockwell	Rockwell Hanford Operations <span style="float: right;"><i>Page 2</i></span> <b>CHEMICAL WASTE DISPOSAL REQUEST</b>	Logbook No. HEDL 85-17 cont. ▼ Manifest(s) cross-reference	
Requested by	Telephone Number	Address	Company
Signature _____		Date <u>5-16-85</u>	
		Radiation Monitoring Release Survey Card Number (If Applicable) _____	

**WASTE DESCRIPTION (For additional items, continue on the back of this form)**

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	None	MT	
9	1	55 gal	0	Metal Drum	Empty oil drum <sup>no label</sup>	MACHINE SHOP SOL C Cutting oil	100.0	L	None	None	MT	177
10	1	30 gal	0	Metal Drum	Empty oil drum	Cutting oil	100.0	L	None	None	MT	178
11	3	55 gal	0	Metal Drum	Empty Trichorethane	Methyl Choraform	100.0	L	EDW		MT	179 to 181
12	1	55 gal	0	Metal Drum	Empty	Turco Fabrifilm	100.0	L	None		MT	182
13	1	55 gal	55 gal	steel Drum	#6 Burner Oil solidified		100.0	S	None	None	F	167
					remont nozzle piece b.w.p.							

**INSTRUCTIONS**

- COLUMN A - ITEM NUMBER** - Item number for each unique waste.
- COLUMN B - NUMBER OF CONTAINERS** - Number of containers of a unique waste to be disposed.
- COLUMN C - CONTAINER SIZE** - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.
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- COLUMN E - CONTAINER DESCRIPTION** - Specify container type e.g. steel drum, glass bottle.
- COLUMN F - WASTE DESCRIPTION** - Specify trade name or general description of each unique waste.
- COLUMN G - CHEMICAL COMPONENTS** - List all organic and inorganic components of the waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

- COLUMN H - WEIGHT (%)** - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.
- COLUMN I - PHYSICAL STATE** - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.
- COLUMN J - HAZARDS** - Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.
- COLUMN K - WASTE STATUS** - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).
- COLUMN L - CONTAINER STATUS** - Indicate whether the container is: Full (F), Partially Full (PF), Empty (E), or Triple Rinsed (TR).

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<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. WA 789 000 8967		Manifest Document No.		2. Page 1 of 2		Information in the shaded areas is not required by Federal law.				
3. Generator's Name and Mailing Address D. W. FAULK 234-5Z/200W						RHO-16-1-TRASH						
4. Generator's Phone ( 509 ) 373-2337												
5. Transporter 1 Company Name ROCKWELL HANFORD OPERATIONS				6. US EPA ID Number WA 789 000 8967		A. State Manifest Document Number						
7. Transporter 2 Company Name NA				8. US EPA ID Number		B. State Generator's ID						
9. Designated Facility Name and Site Address CENTRAL LANDFILL TRASH TRENCH - NON-HAZARDOUS WASTE						10. US EPA ID Number WA 789 000 8967		C. State Transporter's ID				
								D. Transporter's Phone (509) 376-1420				
								E. State Transporter's ID				
								F. Transporter's Phone				
								G. State Facility's ID				
								H. Facility's Phone 376-6748				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.		
						No. Type						
a.	HM	HOUGHTO SAFE 5046 HYDRAULIC FLUID				NONE	NONE	1	DM	0	-	NONE
b.		UNUSED - DAMAGED DRUMS				NONE	NONE	5	DM	0	-	NONE
c.		"BUTVAR" SOLID POLYVINYL BUTYRAL				NONE	NONE	1	DM	20	K	NONE
d.		BONE DRY EMPTY SOLVENT DRUM				NONE	NONE	1	DM	0	-	NONE
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above						
ADDITIONAL ITEMS ARE ON A CONTINUATION SHEET ITEMS A,B, AND D ARE EMPTY 55 GAL DRUMS ITEM C IS A 55 GAK DRUM CONTAINING SOLID WASTE												
15. Special Handling Instructions and Additional Information												
NOTE: BUNGS AND LIDS MUST BE REMOVED FROM EMPTY DRUMS PRIOR TO BURIAL IN THE TRASH TRENCH. THIS INCLUDES ITEMS A, B, AND D.												
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.												
Printed/Typed Name L F LUST						Signature <i>L F Lust</i>			Date 7/30/85			
17. Transporter 1 Acknowledgement of Receipt of Materials												
Printed/Typed Name J.A. Aldridge						Signature <i>J.A. Aldridge</i>			Date 7/31/85			
18. Transporter 2 Acknowledgement of Receipt of Materials												
Printed/Typed Name						Signature			Date			
19. Discrepancy Indication Space												
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.												
Printed/Typed Name D E Phelps						Signature <i>D E Phelps</i>			Date 7/31/85			

GENERATOR

TRANSPORTER

FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)</b>		21. Generator's US EPA ID No. <b>WA 789 000 8967</b>	Manifest Document No.	22. Page <b>2</b>	Information in the shaded areas is not required by Federal law.						
23. Generator's Name <b>D. W. FAULK</b>				RHO-16-1-TRASH		L. State Manifest Document Number					
24. Transporter Company Name <b>ROCKWELL HANFORD OPERATIONS</b>				25. US EPA ID Number <b>WA 789 000 8967</b>		M. State Generator's ID					
26. Transporter Company Name				27. US EPA ID Number		N. State Transporter's ID					
						O. Transporter's Phone <b>376-1420</b>					
						P. State Transporter's ID					
						Q. Transporter's Phone					
28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)					29. Containers		30. Total Quantity		31. Unit W/Vol	R. Waste No.	
					No. Type						
a.	HM	BONE DRY EMPTY OLD DRUMS			NONE	NONE	4	DM	0	-	NONE
b.		SILICA GEL			NONE	NONE	3	DM	58	K	NONE
c.		SILICA GEL			NONE	NONE	4	DM	55	K	NONE
d.		ALUMINA			NONE	NONE	2	DM	50	K	NONE
e.		BONE DRY EMPTY DAMAGED DRUM			NONE	NONE	1	DM	0	-	NONE
f.											
g.											
h.											
i.											
S. Additional Descriptions for Materials Listed Above							T. Handling Codes for Wastes Listed Above				
ITEM A IS EMPTY 55 GAL DRUMS											
ITEM B: SOLID WASTE IN 150 lb CAPACITY DRUMS											
ITEM C: SOLID WASTE IN 120 lb CAPACITY DRUMS											
ITEM D: SOLID WASTE IN 110 lb CAPACITY DRUMS											
32. Special Handling Instructions and Additional Information											
ITEM E: EMPTY 55 GAL DRUM											
NOTE: BUNGS AND LIDS MUST BE REMOVED FROM EMPTY DRUMS PRIOR TO BURIAL IN THE TRASH TRENCH. THIS INCLUDES ITEMS A AND E.											
TRANSPORTER	33. Transporter Acknowledgement of Receipt of Materials							Date			
	Printed/Typed Name <b>J.A. Aldridge</b>				Signature <i>J.A. Aldridge</i>			Month Day Year <b>7 13 1985</b>			
FACILITY	34. Transporter Acknowledgement of Receipt of Materials							Date			
	Printed/Typed Name <b>DE Phelps</b>				Signature <i>DE Phelps</i>			Month Day Year <b>7 13 1985</b>			
35. Discrepancy Indication Space											
<b>000180</b>											

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>WA 789 000 8967</b>		Manifest Document No.		2. Page 1 of <b>2</b>		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <b>D. W. FAULK 234-5Z/200W</b>						<b>RHO-16-1-TRASH</b>			
4. Generator's Phone ( <b>509</b> ) <b>373-2337</b>						A. State Manifest Document Number			
5. Transporter 1 Company Name <b>ROCKWELL HANFORD OPERATIONS</b>						6. US EPA ID Number <b>WA 789 000 8967</b>		C. State Transporter's ID	
7. Transporter 2 Company Name <b>NA</b>						8. US EPA ID Number		D. Transporter's Phone ( <b>509</b> ) <b>376-1420</b>	
9. Designated Facility Name and Site Address <b>CENTRAL LANDFILL TRASH TRENCH - NON-HAZARDOUS WASTE</b>						10. US EPA ID Number <b>WA 789 000 8967</b>		E. State Transporter's ID	
								F. Transporter's Phone	
								G. State Facility's ID	
								H. Facility's Phone <b>376-6748</b>	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
					No. Type				
a. <b>HOUGHTO SAFE 5046 HYDRAULIC FLUID</b>					NONE NONE		1	DM	0
b. <b>UNUSED - DAMAGED DRUMS</b>					NONE NONE		5	DM	0
c. <b>"BUTVAR" SOLID POLYVINYL BUTYRAL</b>					NONE NONE		1	DM	20
d. <b>BONE DRY EMPTY SOLVENT DRUM</b>					NONE NONE		1	DM	0
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above			
<b>ADDITIONAL ITEMS ARE ON A CONTINUATION SHEET ITEMS A,B, AND D ARE EMPTY 55 GAL DRUMS ITEM C IS A 55 GAL DRUM CONTAINING SOLID WASTE</b>									
15. Special Handling Instructions and Additional Information									
<b>NOTE: BUNGS AND LIDS MUST BE REMOVED FROM EMPTY DRUMS PRIOR TO BURIAL IN THE TRASH TRENCH. THIS INCLUDES ITEMS A, B, AND D.</b>									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. <i>7/30/85</i>									
Printed/Typed Name <b>L F LUST</b>					Signature <i>L F Lust</i>			Date Month Day Year <b>7 30 85</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name <i>JA Allred</i>					Signature <i>JA Allred</i>			Date Month Day Year <b>7 1 85</b>	
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name					Signature			Date Month Day Year	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name <b>DE Phelps</b>					Signature <i>DE Phelps</i>			Date Month Day Year <b>7 31 85</b>	

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<b>UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)</b>		21. Generator's US EPA ID No. <b>WA 789 000 8967</b>	Manifest Document No.	22. Page <b>2</b>	Information in the shaded areas is not required by Federal law.				
23. Generator's Name <b>D. W. FAULK</b>			<b>RHO-16-1-TRASH</b>		L. State Manifest Document Number			M. State Generator's ID	
24. Transporter <input checked="" type="checkbox"/> Company Name <b>ROCKWELL HANFORD OPERATIONS</b>		25. US EPA ID Number <b>WA 789 000 8967</b>		N. State Transporter's ID			O. Transporter's Phone <b>376-1420</b>		
26. Transporter <input type="checkbox"/> Company Name		27. US EPA ID Number		P. State Transporter's ID			Q. Transporter's Phone		
28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				29. Containers		30. Total Quantity	31. Unit Wt/Vol	R. Waste No.	
				No.	Type				
a.	BONE DRY EMPTY OLD DRUMS		NONE	NONE	4	DM	0	-	NONE
b.	SILICA GEL		NONE	NONE	3	DM	58	K	NONE
c.	SILICA GEL		NONE	NONE	4	DM	55	K	NONE
d.	ALUMINA		NONE	NONE	2	DM	50	K	NONE
e.	BONE DRY EMPTY DAMAGED DRUM		NONE	NONE	1	DM	0	-	NONE
f.									
g.									
h.									
i.									
S. Additional Descriptions for Materials Listed Above					T. Handling Codes for Wastes Listed Above				
ITEM A IS EMPTY 55 GAL DRUMS ITEM B: SOLID WASTE IN 150 lb CAPACITY DRUMS ITEM C: SOLID WASTE IN 120 lb CAPACITY DRUMS ITEM D: SOLID WASTE IN 110 lb CAPACITY DRUMS									
32. Special Handling Instructions and Additional Information									
ITEM E: EMPTY 55 GAL DRUM  NOTE: BUNGS AND LIDS MUST BE REMOVED FROM EMPTY DRUMS PRIOR TO BURIAL IN THE TRASH TRENCH. THIS INCLUDES ITEMS A AND E.									
33. Transporter <input type="checkbox"/> Acknowledgement of Receipt of Materials							Date		
Printed/Typed Name <b>J.A Aldridge</b>				Signature <i>J.A Aldridge</i>			Month Day Year <b>7 31 85</b>		
34. Transporter <input type="checkbox"/> Acknowledgement of Receipt of Materials							Date		
Printed/Typed Name <b>DE Phelps</b>				Signature <i>DE Phelps</i>			Month Day Year <b>7 31 85</b>		
35. Discrepancy Indication Space									
<b>000182</b>									

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GENERATOR

TRANSPORTER

FACILITY

# Internal Letter



# Rockwell International

Date July 22, 1985

No. 65950-85-341

TO Name Organization (Internal Address)

D. W. Faulk  
234-5Z/200W

FROM Name Organization (Internal Address) Phone

D. R. Groth  
2750E/A-121

3-2458

Subject: DISPOSAL ANALYSIS NO. RHO-16-1

Reference: Chemical Waste Disposal Requests, May 21, 1985,  
May 31, 1985, June 4, 1985, July 9, 1985.

The Solid Waste Processing & Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Requests. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

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

After packaging, labeling and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, an SWP&DU representative will sign the manifest. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench or to the 2727-S storage facility for subsequent offsite disposal is a generator responsibility and may be implemented after compliance with instructions in the subject Disposal Analysis, completion of the manifest and certification by SWP&DU. Transportation arrangements can be made by contacting A. D. Poor 376-1420.

Should you require further assistance regarding the disposition of these wastes, please contact J. A. Reddick (3-4733).

D. R. Groth, Manager  
Solid Waste Processing & Disposal Unit

DRG:JAR:kh

Att.

cc: G. R. Cox  
H. A. Haerer

L. F. Lust  
J. A. Reddick JAR

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DISPOSAL ANALYSIS NO. RHO-16-1

Non Regulated Drum Storage

Empty drums listed on the attached table for non-regulated drum storage must, according to USDOT, be transported as though they are full.

The waste generator must comply with the following requirements for packaging, marking and labeling these containers for on site storage.

Packaging

- o Each drum must be empty.
- o Each drum must have bungs or lids securely in place.

Markings

- o Each drum must be marked with the USDOT proper shipping name and identification number as listed on the attached table.
- o Each drum must be marked with the manifest number and a unique item number, (e.g., 16-1-A1, 16-1-A2, etc.).
- o Markings must be legible, durable, and in a color which contrasts with the drums.

Labeling

- o Each drum must bear the USDOT labels listed in the attached table.

OFFSITE DISPOSAL

Empty drums listed on the attached table for offsite disposal are WDOE Extremely Hazardous Wastes. They must also, according to USDOT, be transported as though they are full. Packaging, marking and labeling requirements are the same as those listed above for WDOE non-regulated drums.

- o In addition, these drums must bear a completed EPA Hazardous Waste label.
- o A completed Treatment, Storage and Disposal Record must accompany the manifest for these drums.

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DISPOSAL ANALYSIS RHO-16-1, (cont'd.)

Central Landfill Trash Trench - Nonhazardous

Items listed in the attached Table for disposal in the Central Landfill Trash Trench are non-hazardous and are not regulated by WDOE.

These containers should be marked RHO-16-1-TRASH. Non-empty containers should be sealed to prevent any spills during transport and handling.

Unconditional Release

All non-radioactive wastes must have an Unconditional Radiological Release or Exemption from Unconditional Release signed by authorized personnel.

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DISPOSAL ANALYSIS NO. RHO-16-1

ITEM NO.	DOT HAZARD CLASS	DOT SHIPPING NAME	EPA NUMBER	DOT IDENTIFICATION NUMBER	DOT LABEL	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
<u>Non-Regulated Drum Storage - Manifest RHO-16-1A</u>								
1.	None	None (Silica Gel)	None	None	None	1	DM-25 gal.	0
2.	None	None (TBP)	None	None	None	2	DM-55 gal.	0
3.	Flammable Liquid	Petroleum Naphtha (Mineral Spirits)	None	UN1255	Flammable Liquid	1	DM-55 gal.	0
4.	Flammable Liquid	Methyl Ethyl Ketone	None	UN1193	Flammable Liquid	1	DM-55 gal.	0
5.	None	None (Ethylene Glycol)	None	None	None	4	DM-55 gal.	0
6.	None	None (Bone Dry- Polyethylene lined - No Residue)	None	None	None	1	DM-55 gal.	0
7.	None	None (Bone Dry Ring Closure-No Residue)	None	None	None	2	DM-55 gal.	0

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DISPOSAL ANALYSIS NO. RHO-16-1

ITEM NO.	DOT HAZARD CLASS	DOT SHIPPING NAME	EPA NUMBER	DOT IDENTIFICATION NUMBER	DOT LABEL	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
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Non-Regulated Drum Storage - Continued - Manifest RHO-16-1A

8.	Corrosive Material	Sodium Hydroxide, Dry Solid	None	UN1823	Corrosive	3	DF-55 gal.	0
9.	None	None (Alumina)	None	None	None	2	DM-110 lb	0

2727-S STORAGE - MANIFEST RHO-16-1B

10.	ORM-A	Carbon Tetrachloride	U211	UN1846	Hazardous Waste Label	1	DM-55 gal	0
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DISPOSAL ANALYSIS NO. RHO-16-1

ITEM NO.	DOT HAZARD CLASS	DOT SHIPPING NAME	EPA NUMBER	DOT IDENTIFICATION NUMBER	DOT LABEL	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
<u>Central Landfill Trash Trench - Non-Hazardous - Manifest RHO-16-1-TRASH</u>								
11.	None	None (Houghto -SAFE 5046 Hydraulic Fluid	None	None	None	1	DM-55 gal	0
12.	None	None (Unused, damaged drums)	None	None	None	5	DM-55 gal	0
13.	None	None ("BUTVAR" Solid Polyvinyl Butyral)	None	None	None	1	DM-55 gal	0
14.	None	None (Bone Dry Chevron Solvent Drum)	None	None	None	1	DM-55 gal	0
15.	None	None (Bone Dry Empty- old drums)	None	None	None	4	DM-55 gal	0
16.	None	None (Silica Gel)	None	None	None	3	DM-150 lb	58 kg Total
17.	None	None (Silica Gel)	None	None	None	4	DM-120 lb	55 kg Total
18.	None	None (Alumina)	None	None	None	2	DM-110 lb	50 kg Total

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DISPOSAL ANALYSIS NO. RHO-16-1

ITEM NO.	DOT HAZARD CLASS	DOT SHIPPING NAME	EPA NUMBER	DOT IDENTIFICATION NUMBER	DOT LABEL	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
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Central Landfill Trash Trench - Non-Hazardous Cont'd - Manifest RHO-16-1-TRASH

19.	None	None (Bone Dry, Damaged Ring Closure. No Residue)	None	None	None	1	DM-55 gal	0
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CHEMICAL WASTE DISPOSAL REQUEST

Logbook No.

Manifest(s) cross-reference

RHO-16-1

Requested by D W Faulk Telephone Number 3-2337 Address 234-52/200W Company RHO  
Signature D.W. Faulk Date 5-21-85 Radiation Monitoring Release Survey Card Number (If Applicable)

WASTE DESCRIPTION (For additional items, continue on the back of this form)

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	None	MT	
1	1	25 gal	0	steel Drum	MT Silica Gel down	$H_2SiO_3$ Silica dioxide	100	S	None	0	MT	
2	1	55 gal	0	steel Drum	Houghto-Safe 5046 Hydraulic Fluid - MT	Oil emulsion	100	L	None	0	MT	BONE DRY PER LFL DSE
3	2	55 gal	0	steel Drum	Empty TBP Drums	Tri Butyl Phosphate	100	L	None	0	MT	
4	1	55 gal	0	steel Drum	Empty Mineral Spirits	Mineral Spirits	100	L	F	0	MT	
5	1	55 gal	0	steel Drum	Empty Methyl Ethyl Ketone	Methyl Ethyl Ketone	100	L	F	0	MT	
6	5	55 gal	0	steel Drum	Empty New, unused damaged	None		None	None	N	MT	
7	1	55 gal	20	Steel Drum	Empty Butvar drum plus plastic bag (full)	Polyethylene Butvar	0.5 99.5	S	None	0	PF	
8	4	55 gal	0	Steel Drum	MT Ant-freeze drums	Ethylene Glycol	100	L	None	0	MT	

INSTRUCTIONS

- COLUMN A - ITEM NUMBER** - Item number for each unique waste.
- COLUMN B - NUMBER OF CONTAINERS** - Number of containers of a unique waste to be disposed.
- COLUMN C - CONTAINER SIZE** - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.
- COLUMN D - TOTAL WASTE QUANTITY** - Total waste quantity (in kilograms only) of each unique waste to be disposed.
- COLUMN E - CONTAINER DESCRIPTION** - Specify container type e.g. steel drum, glass bottle.
- COLUMN F - WASTE DESCRIPTION** - Specify trade name or general description of each unique waste.
- COLUMN G - CHEMICAL COMPONENTS** - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

- COLUMN H - WEIGHT (%)** - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.
- COLUMN I - PHYSICAL STATE** - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.
- COLUMN J - HAZARDS** - Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.
- COLUMN K - WASTE STATUS** - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).
- COLUMN L - CONTAINER STATUS** - Indicate whether container is: Full (F), Partially Full (PF), Empty (1 in) (MT), Triple Rinsed (TR).

91121900193

to: SUNDU  
2/A105/200E  
Rockwell

## CHEMICAL WASTE POSAL REQUEST

Manifest(s) cross-reference

RHO-16-1

Requested by

D W Faulk

Telephone Number

3-2337

Address

334-52/700 W

Company

RHO

Signature

D.W. Faulk

Date 5-21-85

Radiation Monitoring Release Survey

Card Number (If Applicable)

## WASTE DESCRIPTION (For additional items, continue on the back of this form)

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	None	MT	
9	1	55 gal	0	steel Drum	chevron "flammable solvent" - Empty	Flammable Liquid, NOS	100	L	F	0	MT	BONE DRY PH LFL DSE
10	1	55 gal	0	steel Drum	Monsanto "Hydraulic Fluid"		100	L	None	0	MT	BONE DRY PH LFL DSE
11	4	55 gal	0	steel Drum	Empty, old drums - empty over containers	Hazardous waste, NOS	100	L	F	0	MT	BONE DRY PH LFL DSE Empty Solvent
						How For MSDS,						
						Product Number NOT yet suspected to be hazardous - pending further info.						
						To be resubmitted						

## INSTRUCTIONS

COLUMN A - ITEM NUMBER - Item number for each unique waste.

COLUMN B - NUMBER OF CONTAINERS - Number of containers of a unique waste to be disposed.

COLUMN C - CONTAINER SIZE - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.

COLUMN D - TOTAL WASTE QUANTITY - Total waste quantity (in kilograms only) of each unique waste to be disposed.

COLUMN E - CONTAINER DESCRIPTION - Specify container type e.g. steel drum, glass bottle.

COLUMN F - WASTE DESCRIPTION - Specify trade name or general description of each unique waste.

COLUMN G - CHEMICAL COMPONENTS - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

COLUMN H - WEIGHT (%) - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.

COLUMN I - PHYSICAL STATE - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases

COLUMN J - HAZARDS - Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.

COLUMN K - WASTE STATUS - Indicate whether waste is: Reactor (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).

COLUMN L - CONTAINER STATUS - Indicate whether container is: Full (F), Partially Full (PF), Empty (&lt; 1 in) (MT), Triple Rinsed (TR).

Complete unfinished parts and forward to:  
DUJ  
2700E/A105/200E  
Rockwell

CHEMICAL WASTE DISPOSAL REQUEST

Logbook No. **RHO-16-17**  
Manifest(s) cross-reference  
Combined with RHO-16-1

Requested by **DW Faulk** Telephone Number **3-2337** Address **234-52/200W** Company **RHO**  
Signature **[Signature]** Date **5/31/85** Radiation Monitoring Release Survey Card Number (If Applicable)

WASTE DESCRIPTION (For additional items, continue on the back of this form)

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	None	MT	
1	2	55gal	108	steel Drum	Used cutting oil oil, NDS NA 1270	Water soluble, non-combustible oil	100	L	None	U	F	
						WAIT FOR PCB ANALYSIS. To be resubmitted.						
2	1	55gal	0	steel Drum	Empty, Unknown Bowl Day, Clean, Shiny Polyethylene lined per LFL DSI	None	NA	NA	None	NA	MT	

INSTRUCTIONS

- COLUMN A - ITEM NUMBER** - Item number for each unique waste.
- COLUMN B - NUMBER OF CONTAINERS** - Number of containers of a unique waste to be disposed.
- COLUMN C - CONTAINER SIZE** - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.
- COLUMN D - TOTAL WASTE QUANTITY** - Total waste quantity (in kilograms only) of each unique waste to be disposed.
- COLUMN E - CONTAINER DESCRIPTION** - Specify container type e.g. steel drum, glass bottle.
- COLUMN F - WASTE DESCRIPTION** - Specify trade name or general description of each unique waste.
- COLUMN G - CHEMICAL COMPONENTS** - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

- COLUMN H - WEIGHT (%)** - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.
- COLUMN I - PHYSICAL STATE** - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.
- COLUMN J - HAZARDS** - Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.
- COLUMN K - WASTE STATUS** - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).
- COLUMN L - CONTAINER STATUS** - Indicate whether container is: Full (F), Partially Full (PF), Empty (< 1 in) (MT), Triple Rinsed (TR).

000192



9 1 1 2 1 7 0 0 1 0 6

Complete and forward to:  
P&DU  
2750E/A105/200E  
Rockwell

Rockwell Hard Operations  
CHEMICAL WASTE DISPOSAL REQUEST

Logbook No.  
Manifest(s) cross-reference  
Combine with ~~the~~  
RHO-16-1

Requested by **DW Faulk** Telephone Number **3-31194** Address **234-52 200E** Company **RHO**

Signature *[Signature]* Date **7/9/95** Radiation Monitoring Release Survey Card Number (If Applicable)

WASTE DESCRIPTION (For additional items, continue on the back of this form)

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	None	MT	
1	3	55 gal	0	Plastic Drum	Empty Sodium Hydroxide	NaOH	100	S	None	None	MT	
2	1	55 gal	0	steel Drum	Empty Carbon Tet	CCl4	100	L	ORM-A	None	MT	
3	3	150 lb	58	Drum	Silica gel	H <sub>2</sub> SiO <sub>3</sub> Silicic Acid Silicon dioxide	100	S	None	U	F	DESICCANT
4	4	120 lb	55	steel Drum	Silica gel	H <sub>2</sub> SiO <sub>3</sub> Silicic Acid Silicon dioxide	100	S	None	U	F	DESICCANT
5	2	110 lb	50	Steel Drum	BD120000 NIOSH Alumina	Aluminum Oxide	100	S	None	U	F	
6	2	110 lb	0	Steel Drum	Empty Alumina	Aluminum Oxide	100	S	None	None	MT	
7	1	55 gal	0	steel Drum	Galvanized Empty steel Drum	Damaged Clean, MT	NA	NA	None	None	MT	

INSTRUCTIONS

- COLUMN A - ITEM NUMBER** - Item number for each unique waste.
- COLUMN B - NUMBER OF CONTAINERS** - Number of containers of a unique waste to be disposed.
- COLUMN C - CONTAINER SIZE** - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.
- COLUMN D - TOTAL WASTE QUANTITY** - Total waste quantity (in kilograms only) of each unique waste to be disposed.
- COLUMN E - CONTAINER DESCRIPTION** - Specify container type e.g. steel drum, glass bottle.
- COLUMN F - WASTE DESCRIPTION** - Specify trade name or general description of each unique waste.
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- COLUMN H - WEIGHT (%)** - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.
- COLUMN I - PHYSICAL STATE** - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.
- COLUMN J - HAZARDS** - Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.
- COLUMN K - WASTE STATUS** - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).
- COLUMN L - CONTAINER STATUS** - Indicate whether container is: Full (F), Partially Full (PF), Empty (E), Triple Rinsed (TR).

109

000191

To: Julie  
From: Len  
Date: 7/18/85

*L. Lust*

Ref. your note of 7/17/85

RHO-15-31

As I mentioned in our telecon, I cannot find a copy of your analysis. Please send another.

RHO-16-15 (Mercury waste)

This has been repackaged and is ready for shipment. However I think we should wait with inspection & manifesting until RHO-15-31 is ready so we can ship them together.

RHO-16-1

Item 2 (Drum # 143) and Item 10 (Drum 210) - both are "bone dry". They are bung type drums. There is no evidence that they have ever contained EHW. There is no material to sample. I recommend we TRASH them. Note: Change Item 5 to one drum. The other is being used.

Item 11 (Drums 125, 126, 132, 135) are all completely empty. They all appear to be drums that have come from a paint shop and have probably been used for "workbenches." In all likelihood they were originally solvent drums. The solvent has long since evaporated and the drums have <sup>been</sup> painted. I recommend we TRASH them. There is no liquid to sample. They are bung type drums.

Item 9 (Drum 133)

Same as Item 11

RHO-16-17

Item 1 (Drums 213, 214) I will obtain PCA + Flash Point analyses.

000195

Item 2 (Drum 142), New-loading, polyethylene lined drum. Dry & shiny inside. No labels to indicate what it was used for. No material for sample. Should be recyclable.

RHO-16-19

Item 2 (Drum # 102) has been emptied into  
Item 3 (Drum # 101). Drum # 101 is now full,  
# 102 is empty. I will request disposal of  
# 102 on another request. Some effort is  
being made to use the material in # 101.  
If it is not usable, I will obtain PCA and  
flash point analyses

Item 1

One black drum. Paint good condition, inside and  
out. Ring-type closure with lid & ring. Bone dry,  
clean, NO residue. Should be excellent for  
recycle. (Drum # 220)

One galvanized drum. Appears never to have  
been used. Clean, dry, no residue, no labels  
or markings. Ring-type closure. With ring  
and lid. Excellent for recycle.

000196

90-2000-10118-101  
DON'T SAY IT ... Write It!

DATE 7-20-85

TO L. F. LUST

FROM J. A. REDDICK

THE ANALYSIS FOR DISPOSAL REQUESTS 16-1, 16-17, 16-19 AND REQUEST ...  
OF 7-9-85 IS IN TYPING, AND SHOULD BE ISSUED SHORTLY.

THE FOLLOWING ITEMS ARE NOT INCLUDED AND SHOULD BE RESUBMITTED:

- MONSANTO "PYDRAUL" DRUM - NEEDS MORE INFO FROM MONSANTO - I WILL CALL.
- USED CUTTING OIL - PENDING PCB ANALYSIS
- HOUGHTON-SAFE EMULSION - (NON-EMPTY) - MATERIAL IN USE per you DSI

ENCLOSED ARE DESIGNATIONS FOR YOUR WASTES FOR FUTURE REFERENCE. PLEASE NOTE  
THAT CLEAN SILICA GEL AND ALUMINA AND SOLID "BUTVAR" ARE NOT REGULATED  
IN ANY QUANTITY BY WDOE AND CAN BE SHIPPED TO THE TRASH TRENCH, IN THE  
FUTURE, WITHOUT A MANIFEST. CALL ME IF YOU NEED A DSI FOR TRANSPORTATION  
FOR THESE ITEMS. THANKS! JULIE.

✦ "TO MAKE LIFE LAST, PUT SAFETY FIRST" ✦

91121700199  
000197

7-17-85

TO: L. F. LUST

FROM: J. A. REDDICK

Subject: WASTE DISPOSAL REQUEST STATUS

ATTACHED ARE COPIES OF OUTSTANDING REQUESTS you mentioned in your DSI of 7-9-85.

THE STATUS of these requests is as follows:

RHO-15-31: DISPOSAL ANALYSIS is ISSUED. WE HAVE NOT RECEIVED A REQUEST for inspection.

RHO-16-1: ANALYSIS NOT COMPLETE: WE NEED MORE DATA ON Item 2 AND Item 10. THESE ARE HYDRAULIC FLUIDS/OILS WHICH MUST BE TESTED FOR PCB IF ANY OF THE MATERIAL in the drums is used OR WAS TRANSFERRED FROM ANOTHER CONTAINER. PLEASE SEND A DSI STATING THAT THE DRUMS ARE MERELY EMPTIED OF THEIR ORIGINAL CONTENTS IF THIS IS THE CASE.

Item 11: WE CANNOT DESIGNATE UNKNOWN materials. If there is a heel in these drums, samples must be taken for ANALYSIS, THIS has been ongoing for samples of unknowns

Item 9: "CHEVRON FLAMMABLE SOLVENT" is not enough information TO support DISPOSAL ANALYSIS. The product composition AND Product name/number might be determined by contacting Chevron. If not, or if the contents are not the original material, Sampling of any heel may be NECESSARY AS for item 11.

\* THIS REQUEST WILL BE PROCESSED WITHOUT ITEMS 9 AND 11. Items 2 AND 10 WILL BE INCLUDED pending receipt of a DSI.

RHO-16-15: DISPOSAL ANALYSIS is ISSUED. WE HAVE NOT RECEIVED A REQUEST FOR INSPECTION

RHO-16-17: ANALYSIS NOT COMPLETE. WE NEED MORE INFORMATION on items 1 AND 2.

Item 1: USED CUTTING OIL MUST BE ANALYZED FOR PCB (EACH DRUM) ANALYSES ARE PERFORMED BY HEHF. TRADE NAME is needed to determine FLASH POINT, or other data is needed to support "non-combustible" determination. (HEHF CAN TEST FOR FLASH POINT if necessary)

000198

Item 2: We cannot designate unknown materials. See item  
11 of WDR RHO-16-1

\* This request cannot be processed without further information.

RHO-16-19: Analysis is not complete; Further information is  
required as follows:

Item 2: What is the quantity of waste in this drum?

Items 2,3, Used Hydraulic oils must be tested for  
PCB. HEHF can do the analyses.

\* This request cannot be processed without further  
information

000199

STORAGE/DISPOSAL ACTIVITY		ORIGINATOR	
Onsite Disposal (D81)	<input type="checkbox"/> Oxidizer Trench <input checked="" type="checkbox"/> Corrosive Trench <input type="checkbox"/> Asbestos Trench	End Function:	Manifest Number: RHO-16-13
Non-PCB Onsite Storage (SO1)/Offsite TSD: <input type="checkbox"/>		Company: Rockwell Hanford Ops.	Building/Area: 1171/1100
PCB Onsite Storage/Offsite Disposal: <input type="checkbox"/>		Contact Person: A. D. Poor	Address/Phone: 1171/1100 6-1420

PHYSICAL DESCRIPTION						
Item No.	Description Of Waste	DOT Hazard Class	WDOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	Empty "SPIKE" 80W Boxes (95)	none	N/A	0	380	Weed killing Operations
2						
3	Empty "OUST" Bottles (80)	none	N/A	0	4.0	Weed killing Operations
4						
5						
6						
7						
8						
9						
10						
For additional items, continue on the back of this form.				Total Weight (Front & Back) 0 KG	Total Volume (Front & Back) 384 FT <sup>3</sup>	

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)			
ONSITE DISPOSAL Land fill CORROSIVE TRENCH	Disposal Date: 6-17-1995	Signature: Disposer <i>D E Phelps</i>	
	Trench Location: Land Fill	Beginning Coordinates: N 65' W	Ending Coordinates: N 70' W
NON PCB OFFSITE DISPOSAL	Storage Time:	Arrival Date:	
	Offsite TSD	Date Shipped:	
		Facility Name:	
		Facility Address:	
TSD Process:		Landfill (D81): <input type="checkbox"/> Disposal Date	
		Treatment (TO ___): <input type="checkbox"/> Treatment Date	
		Specify Treatment Activity	
		Other (___): <input type="checkbox"/> Specify Activity	
PCB OFFSITE DISPOSALS	Storage Time:	Beginning Date:	
	Offsite Disposal:	Date Shipped:	
		Facility Name:	
		Facility Address:	

COMMENTS: 000200

91121200202

Complete added parts and forward to: SWP&DU 2750E/A105/200E Rockwell	Rockwell Hazard Operations <b>CHEMICAL WASTE DISPOSAL REQUEST</b>			Logbook No. <b>RHO-16-13</b> Manifest(s) cross-reference <b>RHO-16-13</b>
Requested by <b>Dennis Poon</b>	Telephone Number <b>6-1420</b>	Address <b>1171 Bldg 1100 Area</b>	Company <b>RHO</b>	
Signature <b>Dennis Poon</b>		Date <b>5-15-85</b>	Radiation Monitoring Release Survey Card Number (If Applicable)	

## WASTE DESCRIPTION (For additional items, continue on the back of this form)

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	None	MT	
1	95	2'x2' Cardboard Box	0	Cardboard Box	EMPTY Cardboard Boxes	SPiKE BOW Weed Killer						
2	36	PAPER SACKS	0	PAPER SACKS	EMPTY PAPER SACKS	SPiKE BOW Weed Killer						
3	80	480Z	0	PLASTIC BOTTLES	EMPTY PLASTIC BOTTLES	OUSt Weed Killer						

## INSTRUCTIONS

**COLUMN A - ITEM NUMBER** - Item number for each unique waste.

**COLUMN B - NUMBER OF CONTAINERS** - Number of containers of a unique waste to be disposed.

**COLUMN C - CONTAINER SIZE** - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.

**COLUMN D - TOTAL WASTE QUANTITY** - Total waste quantity (in kilograms only) of each unique waste to be disposed.

**COLUMN E - CONTAINER DESCRIPTION** - Specify container type e.g. steel drum, glass bottle.

**COLUMN F - WASTE DESCRIPTION** - Specify trade name or general description of each unique waste.

**COLUMN G - CHEMICAL COMPONENTS** - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

**COLUMN H - WEIGHT (%)** - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.

**COLUMN I - PHYSICAL STATE** - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.

**COLUMN J - HAZARDS** - Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.

**COLUMN K - WASTE STATUS** - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).

**COLUMN L - CONTAINER STATUS** - Indicate whether container is: Full (F), Partially Full (PF), Empty (< 1 in) (MT), Triple Rinsed (TR).

1000001

SPIKE 80 W WDOE Designation

COMPOSITION: TEBUTHIURON 80%  
INERT 20%

- ① DISCARDED CHEMICAL PRODUCT? YES
- ② LISTED? NO
- ③ DANGEROUS WASTE MIXTURE? YES

a) ORAL TOXICITY = RAT LD50 640 mg/kg per mfr & RTECS  
 ∴ CATEGORY D  
 ∴ EC = 80% / 10,000  
 ∴ EC = 0.008  
 ∴ DW = W202

b) PERSISTENT? NO  
 NO HALOGENATED Hydrocarbons  
 NO POLYCYCLIC AROMATIC Hydrocarbons (>3rings)

c) CARCINOGENIC? NO

d) CHARACTERISTIC? NO  
 NOT Ignitable  
 NOT Corrosive  
 NOT REACTIVE  
 NOT EP TOXIC

DETERMINATION: EMPTY DW CONTAINERS ARE NOT REGULATED per WDOE.

mfr. recommends approved land fill  
 ∴ send to chemical trench.

2 - 25lb sacks/box or 25lb paper sacks.

91121300204

OUST WDOE DESIGNATION

COMPOSITION: 75% METHYL 2 [[[[4,6-dimethyl-2-pyrimidinyl AMINO]-Carbonyl] amino sulfonyl] benzoate = SULFOMETURON METHYL  
25% INERT

- ① DISCARDED CHEMICAL PRODUCT? YES No
- ② LISTED? No
- ③ DANGEROUS WASTE MIXTURE? YES

a) ORAL TOXICITY RAT LD<sub>50</sub> = 5000 mg/kg pa mfr (NOT IN RTECS)  
∴ CATEGORY D  
∴ EC = 75% / 10,000  
∴ EC = 0.0075  
  
∴ DW = W202

b) PERSISTENT? No  
NO HALOGENATED Hydrocarbons  
NO PAH > 3rings (nes 2)

c) CARCINOGENIC? No

d) CHARACTERISTIC? No  
NOT Ignitable  
NOT Corrosive (pH 5.3)  
NOT REACTIVE  
NOT EP Toxic

DETERMINATION: Empty DW CONTAINERS ARE NOT Regulated per WDOE  
mfr. recommends permitted sanitary landfill  
∴ send to chemical trench.

6 (48-oz) plastic bottles/box

91121700205

<b>STORAGE/DISPOSAL ACTIVITY</b>		<b>ORIGINATOR</b>	
Onsite Disposal (D81):	<input type="checkbox"/> Oxidizer Trench <input checked="" type="checkbox"/> Corrosive Trench <input type="checkbox"/> Asbestos Trench	End Function:	Manifest Number: RHO-16-13
Non-PCB Onsite Storage (SOI)/Offsite TSD: <input type="checkbox"/>		Company: Rockwell Hanford Ops.	Building/Area 1171/1100
PCB Onsite Storage/Offsite Disposal: <input type="checkbox"/>		Contact Person: A. D. Poor	Address/Phone: 1171/1100 6-1420

PHYSICAL DESCRIPTION						
Item No.	Description Of Waste	DOT Hazard Class	W DOE DW Number(s)	Weight (KG)	Volume Of Waste and Container (FT <sup>3</sup> )	Generating Facility Bldg./Area
1	Empty "SPIKE" 80W Boxes (95)	none	N/A	0	380	Weed killing Operations
2						
3	Empty "OUST" Bottles (80)	none	N/A	0	4.0	Weed killing Operations
4						
5						
6						
7						
8						
9						
10						

For additional items, continue on the back of this form. Total Weight (Front & Back) 0 KG      Total Volume (Front & Back) 384 FT<sup>3</sup>

TREATMENT, STORAGE, AND DISPOSAL INFORMATION (To be completed by Rockwell)			
<b>ONSITE DISPOSAL:</b> LAND FILL CORROSIVE TRENCH	Disposal Date: <u>6-17-1985</u>	Signature: Disposer <u>D E Phelps</u>	
	Trench Location: <u>LAND FILL</u>	Beginning Coordinates: <u>N</u> <u>W</u>	Ending Coordinates: <u>N</u> <u>W</u>
<b>NON PCB OFFSITE DISPOSAL</b>	Storage Time:	Arrival Date:	Date Shipped:
	<b>Offsite TSD</b>	Facility Name:	Facility Address:
		TSD Process:	Landfill (D81): <input type="checkbox"/> Disposal Date Treatment (TO _____): <input type="checkbox"/> Treatment Date Specify Treatment Activity
		Other ( _____ ): <input type="checkbox"/>	Specify Activity
<b>PCB OFFSITE DISPOSALS</b>	Storage Time:	Beginning Date:	Date Shipped:
	<b>Offsite Disposal:</b>	Facility Name:	Facility Address:

COMMENTS: 000201

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. WA 789 000 8967	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.				
3. Generator's Name and Mailing Address A. D. Poor 1171 Bldg./1100 Area			RHO-16-13		A. State Manifest Document Number				
4. Generator's Phone ( 509 ) 376-1420					B. State Generator's ID				
5. Transporter 1 Company Name Rockwell Hanford Operations		6. US EPA ID Number WA 789 000 8967		C. State Transporter's ID					
7. Transporter 2 Company Name NA		8. US EPA ID Number		D. Transporter's Phone 376-1420					
9. Designated Facility Name and Site Address Central Landfill Corrosive Trench		10. US EPA ID Number WA 789 000 8967		E. State Transporter's ID					
				F. Transporter's Phone					
				G. State Facility's ID					
				H. Facility's Phone 509/376-6748					
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers	13. Total	14. Unit	15.
						No.	Quantity	Wt/Vol	Waste No.
a. Empty "Spike" containers      None      None						95	0	P	N/A
b. Empty "OUST" containers      None      None						14	0	P	N/A
c.						109			
d.									
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above			
Item a) Empty boxes contain empty plastic and paper sacks									
Item b) 13 Boxes contain 6 48 oz. empty plastic bottles each 1 Box contains 2 48 oz. empty plastic bottles									
15. Special Handling Instructions and Additional Information									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.									
Printed/Typed Name <i>Mike Malachuk</i>						Signature <i>Mike Malachuk</i>		Date 6-12-85	
17. Transporter 1 Acknowledgement of Receipt of Materials						Signature <i>John H. Armstrong</i>		Date 6-17-85	
18. Transporter 2 Acknowledgement of Receipt of Materials						Signature		Date	
19. Discrepancy Indication Space						Signature		Date	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						Signature <i>D E Phelps</i>		Date 6-17-85	

911211000007

GENERATOR TRANSPORTER FACILITY

# Internal Letter



Rockwell International

Date June 11, 1985

No . 65950-85-256

TO: Name Organization Internal Address  
. A. D. Poor  
. 1171/1100 Area

FROM: Name Organization Internal Address Phone  
. D. R. Groth  
. TF&EPE

3-4258

Subject: .  
DISPOSAL ANALYSIS NO. RHO-16-13

Reference: Chemical Waste Disposal Request, May 15, 1985

The Solid Waste Processing & Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

It has been determined that the waste described in the referenced Disposal Request consists entirely of non-WDOE-regulated empty containers which should be deposited in the Hanford Nonradioactive Chemical Trench.

Arranging for transportation of waste packages directly to the Chemical Trench is a generator responsibility and may be implemented following compliance with the disposal instructions for Onsite Disposal in the subject Disposal Analysis, completion of the attached Uniform Hazardous Waste Manifest and certification by SWP&DU.

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact J. A. Reddick, 3-4733.

D. R. Groth, Manager  
Solid Waste Processing and Disposal Unit

DRG/JAR/kh

Att.

cc: G. R. Cox  
H. A. Haerer  
J. A. Reddick *JAR*

000206

DISPOSAL ANALYSIS NO. RHO-16-13

On Site Disposal

The wastes listed in the attached chemical waste disposal request must be packaged and manifested for shipment as outlined below. The Hanford generator is responsible for packaging and shipping these wastes to the Central Landfill Chemical Trench.

Packaging, Labeling and Marking

- Place the empty "Spike" paper sacks in the empty "Spike" cardboard boxes and seal the cardboard boxes.
- Place the empty "Oust" containers in their original boxes and seal those boxes.
- The original manufacturer's labels and marking are sufficient for transport.

91121230209

000207

# ELANCO

ID 5955

## Herbicide

# Spike®

### 80W

**A preemergence and postemergence herbicide for control of brush and weeds in such areas as:**



Airport runways  
 Utility substations and rights-of-way  
 Tank farms  
 Railway roadbeds and ballast  
 Railroad rights-of-way  
 Road shoulders where no vegetation is desired

Under asphalt and concrete pavements where no future landscaping is planned  
 At the base of highway guardrails, signposts, and markers  
 At the base of transmission towers and poles

Around industrial buildings  
 Lumberyards  
 Railroad yards  
 Ditchbanks  
 Firebreaks  
 Fence rows

The degree and duration of control may vary with the amount of chemical applied, soil texture, and other conditions.

Active ingredient:  
 tebuthiuron: N[5-(1,1-dimethylethyl)-1,3,4-thiadiazol-2-yl]-N,N'-dimethylurea ..... 80.0%  
 Inert Ingredients: ..... 20.0%

Contains 3.2 pounds active ingredient per 4 pound bag. SPIKE® — the registered trademark for Elanco Products tebuthiuron.

**CAUTION: KEEP OUT OF REACH OF CHILDREN.** See back panel for additional caution statements.

**Net Weight 4 Pounds**

EPA Reg. No. 1471-97

000208

9 1 2 1 2 0 0 2 1 0

## DIRECTIONS FOR USE: Read All Directions Carefully Before Applying.

**Human:** Harmful if swallowed. Avoid contact with skin, eyes or clothing. Avoid inhaling dust from product. In case of contact, flush with water.

**Environmental:** Do not contaminate any body of water, ponds or streams as death or injury may occur to vegetation irrigated by such. Do not contaminate water by cleaning of equipment or disposal of wastes.

**Storage and Disposal:** The herbicidal properties of SPIKE 80W require caution in handling, storage and transportation of this product. Do not contaminate food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Dispose in an incinerator or land fill approved for pesticide containers or bury in a noncropland area away from desirable plants, trees and water supply.

The manufacturer makes no warranties, express or implied, concerning this product or its use which extend beyond the description on the label. All statements made concerning this product apply only when used as directed. SPIKE 80W must be applied according to Elanco's written instructions, including, but not limited to, recommended rates. Failure to do so may result in poor weed control or plant injury. Elanco expressly disclaims any warranty, either express or implied, for the use of SPIKE 80W, alone or in combination with other products, when that use is not in strict compliance with Elanco's written recommendations.

## PRECAUTIONS



SPIKE 80W IS INTENDED FOR NONCROPLAND VEGETATION CONTROL. IT IS AN EXTREMELY ACTIVE HERBICIDE WHICH WILL KILL TREES, SHRUBS AND OTHER FORMS OF DESIRABLE VEGETATION HAVING ROOTS EXTENDING INTO THE TREATED AREA. FEEDER ROOTS OF MANY SPECIES OF DESIRABLE VEGETATION EXTEND MANY FEET BEYOND THE DRIP LINE OF THE BRANCHES, AND A VERY SMALL AMOUNT OF SPIKE 80W IN CONTACT WITH ONE FEEDER ROOT OF A TREE, SHRUB OR OTHER DESIRABLE VEGETATION MAY CAUSE SERIOUS INJURY OR DEATH TO THE ENTIRE PLANT.

AN ARBORICULTURIST (TREE EXPERT) SHOULD BE CONSULTED TO HELP YOU TO DETERMINE IF THE AREA OF PROPOSED APPLICATION IS FREE OF ALL ROOTS OF DESIRABLE VEGETATION. THE EFFECT OF SPIKE 80W ON DESIRABLE VEGETATION MAY BE IRREVERSIBLE AND ITS PRESENCE IN THE SOIL MAY PREVENT GROWTH OF OTHER DESIRABLE VEGETATION FOR SOME YEARS AFTER APPLICATION.

READ THE ENTIRE LABEL BEFORE USING SPIKE 80W TO DETERMINE IF THIS PRODUCT IS SUITABLE FOR THE DESIRED PURPOSE.

Do not use SPIKE 80W on areas such as walks, driveways, streets, lawns, patios, tennis courts, swimming pools, cemeteries, or other landscaped areas, or under asphalt or concrete pavement where future landscaping is planned. Do not apply on field crops. Do not apply on any area into which the roots of field crops or other desirable vegetation may extend. ROOTS OF TREES, SHRUBS, AND OTHER DESIRABLE VEGETATION MAY EXTEND FAR BEYOND THE DRIP LINE OF THE PLANT'S BRANCHES.

AVOID NONTARGET DRIFT OR PRODUCT MOVEMENT. DO NOT APPLY WHEN WINDS ARE GUSTY OR UNDER

ANY OTHER CONDITIONS WHICH WILL ALLOW DRIFT OR PRODUCT MOVEMENT. DO NOT APPLY TO AREAS WHERE SOIL MOVEMENT BY WATER EROSION AND/OR NATURAL OR MECHANICAL MEANS IS LIKELY. DO NOT APPLY TO AREAS WHERE WIND IS LIKELY TO CAUSE SOIL MOVEMENT UNLESS A SOIL SEALANT IS USED. DRIFT OR ANY FORM OF PRODUCT MOVEMENT FROM TREATED AREAS MAY CAUSE DAMAGE TO ANY VEGETATION TO WHICH TREATMENT IS NOT INTENDED.

**Ditchbank Usage** — Do not apply SPIKE 80W to any portion of the ditchbank that will come into direct contact with water as movement of SPIKE 80W in this water to non-target plant species may result in the injury or death of those plants. Do not apply on ditches used to transport irrigation or potable water. Keep from contact with other pesticides and seeds.

Thoroughly clean all traces of SPIKE 80W from application equipment after use. DO NOT EMPTY RESIDUES CLEANED FROM APPLICATION EQUIPMENT ON AREAS WHERE THEY MAY COME IN CONTACT WITH THE ROOTS OF DESIRABLE VEGETATION OR THE WATER SOURCE FOR SUCH VEGETATION.

**Woody Plant Control** — Grazing is allowed in areas receiving band or individual plant treatments with 5 pounds per acre or less of SPIKE 80W. In areas receiving band or individual plant treatments with 5 pounds per acre or less of SPIKE 80W, grass may be cut for hay one year after application.

SPIKE 80W may injure or suppress certain herbaceous vegetation in the treated area. Therefore, do not apply where such injury cannot be tolerated. Do not apply broadcast applications of SPIKE 80W where forage or maintenance of a grass cover is desired. Injury to most herbaceous perennials is reduced if SPIKE 80W is applied when this vegetation is dormant.

## DIRECTIONS FOR USE: Read All Directions Carefully Before Applying.

**Total Vegetation Control:** SPIKE 80W is a preemergence and postemergence herbicide for total control of vegetation in such noncropland areas as: airport runways, utility substations and rights-of-way, road shoulders where no vegetation is desired, under asphalt and concrete pavements where no future landscaping is planned, at the base of highway guardrails, sign posts and markers, at the base of transmission towers and poles, around industrial buildings, lumberyards, railroad yards, ditchbanks, firebreaks, and fence rows.

For total vegetation control in areas *not treated the previous season* with SPIKE 80W or other residual herbicides, apply SPIKE 80W prior to or just after emergence of plants as follows:

At 5 pounds per acre, SPIKE 80W will control the following:

Alfalfa	Buttercup, smallflower
Aster, heath	Camphorweed
Aster, white heath	Carrot, wild
Barley, little	Catsear, spotted
Bedstraw	Cheat
Bluegrass, annual	Chickweed
Bluegrass, Kentucky	Clover, red
Bouncingbet	Cocklebur
Bromegrass, downy	Creepers, Virginia
Bromegrass, ripgut	Crowfootgrass
Bromegrass, smooth	Dock, curly
Broomsedge	Dogfennel
Buffelgrass	Fescue
Burclover	Fescue, rattail

# SPIKE®

## Q. What is SPIKE®?

A. SPIKE is a broad spectrum soil applied herbicide for selective and nonselective vegetation control. SPIKE is the Elanco Products Company registered trademark for tebuthiuron formulations marketed for noncropland use. Tebuthiuron is a urea herbicide that is nonvolatile, stable in light, nonflammable, nonexplosive and noncorrosive to application equipment. Tebuthiuron is moderately soluble in water (2500 ppm) and soluble in methanol (170,000 ppm). SPIKE is formulated as a wettable powder, dry flowable, granular and a pellet. SPIKE formulations applied to the soil surface are stable to light and temperature.

## Q. How does SPIKE work?

A. Rainfall moves tebuthiuron, the active ingredient in SPIKE, into the root zone where it is taken up by plant roots. Upward moisture movement in the plant carries the herbicide from roots to leaves where it disrupts photosynthesis, the food-making process. Unable to produce food the plant dies as food reserves are exhausted. Symptoms of herbicidal activity include interveinal yellowing of leaves, browning and subsequent defoliation. Woody plants may undergo several defoliation cycles before death occurs.

## Q. What factors affect herbicidal activity?

A. Herbicidal activity is closely related to rainfall and season of active growth. High temperatures and adequate rainfall enhance herbicidal activity while activity is reduced by inadequate rainfall or low temperatures. Because tebuthiuron is adsorbed by soil clay and organic matter, higher rates are required to control deep-rooted species or vegetation growing on deep medium-to-fine-textured soils.

## Vegetation Management

### Q. How versatile is SPIKE for noncrop vegetation management?

A. SPIKE is registered for control of more than 200 species of woody plants, broadleaf and grass weeds. However, different SPIKE application rates and formulations can be utilized to provide either selective or nonselective vegetation control. Medium-to-high-rate broadcast spray or granular treatments provide nonselective control of many woody, grass and broadleaf species. Broadcast pellet application or spot treatments with SPIKE pellets or liquid mixtures allow selective woody plant control where perennial grass cover is desired. Warm season perennial grasses are most tolerant to SPIKE. When maintenance of established perennial warm season grass cover is desired, annual grasses and broadleaf weeds can often be controlled by low rate SPIKE preemergent broadcast spray or granular treatments.

### Q. Why are some plant species tolerant to SPIKE?

A. Herbicidal tolerance to SPIKE is determined by rooting depth, orientation of the root system (tap root versus spreading), leaf surface area and ability to inactivate (metabolize) tebuthiuron. Plants with deep tap roots, or vertically oriented roots, are more difficult to control than those with spreading root systems. Species with reduced

leaves or those that lack leaves (cacti) are usually difficult to control.

### Q. How close to a valuable tree can I safely apply SPIKE?

A. To avoid damage to desirable trees, do not apply on any area into which the roots of desirable vegetation may extend. Do not apply in locations where the chemical may be washed by runoff, sheet erosion or wind erosion in contact with roots of desirable vegetation, as severe injury or death may occur. **ROOTS OF TREES, SHRUBS, AND OTHER DESIRABLE VEGETATION MAY EXTEND FAR BEYOND THE DRIP LINE OF THE PLANT'S BRANCHES.**

Generally roots of woody species do not extend more than two canopy widths beyond the trunk. For tall columnar or conical shaped trees, substitute height for canopy width. An arboriculturist (tree expert) should be consulted if you are unsure that the proposed treatment area is free of desirable tree roots.

## Human Safety

### Q. Is SPIKE safe to use?

A. Human safety is a practical certainty when used in the manner proposed by SPIKE labels. A wide margin of safety has been assessed for SPIKE by comparing the exposure level of humans to the established nontoxic exposure levels in experimental animals. The safety and toxicity of tebuthiuron have been determined by controlled laboratory studies in several animal species.

### Q. How toxic is SPIKE to humans?

A. Extensive toxicity and safety studies have demonstrated that tebuthiuron has a low order of toxicity. It is well absorbed after ingestion, rapidly metabolized and excreted. Neither tebuthiuron nor its metabolites accumulate in test animals. The single most important effect of tebuthiuron found in subchronic toxicity studies was a slower rate of body weight gain. The no-effect-level (NOEL) for this effect in rats was a dietary level of 400 ppm. This figure, *reduced by a 100 fold safety factor*, was used by EPA to calculate the acceptable daily intake (ADI) for human populations. This value is 0.2 mg/kg/day or 12 mg/day for a person weighing 60 kg (132 lb). On an annual basis the acceptable daily intake for a 132 pound human amounts to 12 mg × 365 day = 4.38 grams. (0.01 lb.). This amount of tebuthiuron is equal to that contained in about 110 3/8" 20 percent SPIKE pellets.

The results of acute toxicity testing in several animal species are listed in Table 1.

Table 1  
Acute Oral Toxicity of Tebuthiuron

Mouse:	LD <sub>50</sub>	579 mg/kg
Rat:	LD <sub>50</sub>	644 mg/kg*
Rabbit:	LD <sub>50</sub>	286 mg/kg
Dog:	LD <sub>50</sub>	Greater than 500 mg/kg
Cat:	LC <sub>50</sub>	Greater than 200 mg/kg

The LD<sub>50</sub> is the median lethal dose at which 50 percent of the test animals are killed. This type of test provides a useful estimation of toxicity for comparison to other chemical compounds. Aspirin, a commonly used pain reliever, has an LD<sub>50</sub> of 800 mg/kg in rats and thus is slightly less acutely toxic than tebuthiuron. In comparison, the LD<sub>50</sub> of SPIKE 20P in rat is greater than 2000 mg/kg.

**Q. What about repeated exposure to SPIKE?**

**A.** Animal studies have shown that tebuthiuron does not cause cancer, birth defects or affect reproduction. Tests that would identify cancer-causing potential run for two years, which is essentially the entire normal life span of the rodent test animal. Reproduction studies encompass three successive generations and cover all aspects of the reproductive cycle including fertility, mating, conception, implantation, embryonic and fetal development.

**Q. How does EPA classify the toxicity of SPIKE?**

**A.** The EPA classifies pesticides according to their toxicity or potential adverse health effects. Prominent display of signal words that indicate the relative toxicity of the pesticide is required on the product label. The most toxic pesticide category requires the signal word DANGER, however, if the product is especially toxic the additional word POISON is displayed. Pesticides of moderate toxicity require the signal word WARNING. The least toxic products require the signal word CAUTION. The Environmental Protection Agency requires tebuthiuron labels to display the word CAUTION, the safest rating available.

**Q. Can I safely burn wood from SPIKE treated trees?**

**A.** Yes. Firewood from SPIKE-treated area is as safe to harvest and burn as wood from any other source. At normal wood combustion temperatures tebuthiuron residues in wood (less than 0.002 g/kg) are decomposed to carbon dioxide and other low molecular weight gases.

## Livestock

**Q. Is SPIKE safe to use around livestock?**

**A.** Tebuthiuron fed to beef cattle for 162 days at 10, 30 and 100 ppm caused no mortality or pathological effects. Average daily gain for the 10 and 30 ppm diets was equal to control animals and those fed 100 ppm gained only slightly less than control animals. Safety levels in cattle are in excess of the forage tolerance of 20 ppm established by EPA and several times greater than most likely case exposure levels in forage from treated areas. Additionally, no livestock mortalities or adverse effects have been attributed to tebuthiuron after several years of field testing and large scale commercial application on grazing land.

**Q. Will livestock eat SPIKE pellets?**

**A.** When applied to vegetated areas SPIKE pellets filter into plants and litter on the soil surface. Most are visually hidden and thus not available to an animal unless actively sought. Clay pellets are soil-like in appearance and have no particular smell, taste or unusual appearance that would distinguish them as food. Thus, the selective consumption by livestock is unlikely. Because of low toxicity, inadvertent consumption while foraging is unlikely to produce any effect. As in other animals tested, tebuthiuron is rapidly absorbed, metabolized and excreted by livestock.

## Wildlife

**Q. Is SPIKE safe to wildlife?**

Wildlife may be exposed to low level residues of tebuthiuron in soil, plants and surface runoff water in areas where SPIKE has been applied. The safety of this exposure has been evaluated by comparing no effect levels established in toxicity tests to maximum expected environ-

mental concentrations found in soil, food and water. Calculated safety factors for species tested are shown in Tables 2 and 3. Safety factors for terrestrial animals range from 5X to 1500X; for fish and other aquatic species safety is 52X to 1250X. No adverse affects to wildlife are expected if SPIKE is used according to label directions.

**Table 2  
Tebuthiuron Safety Assessment  
For Nontarget Terrestrial Animals**

Test Animal and Study Type	Route of Exposure	No-Effect Level or Highest Concentration Tested	Estimated Maximum Exposure Level (2)	Safety Factor
Honeybees Acute	Water spray	30,000 ppm	20 ppm	1,500X
Bobwhite Acute	Diet	≥2,500 ppm	20 ppm	≥125X
Bobwhite Single Generation	Diet	≥100 ppm	20 ppm	≥5X
Mallard Acute	Diet	≥2,500 ppm	20 ppm	≥125X
Mallard Single Generation	Diet	≥100 ppm	20 ppm	≥5X
Earthworm Acute	Soil	100 ppm	4 ppm	>25X
Soil Microbes Acute	Soil	40 ppm	4 ppm	10X

(2) Application rate of 4 lb./A.

**Table 3  
Tebuthiuron Safety Assessment  
For Nontarget Aquatic Animals**

Test Animal and Study Type	Route of Exposure	No-Effect Level or Highest Concentration Tested	Estimated Maximum Exposure Level (1)	Safety Factor
Bluegill Acute	Freshwater	87 ppm	0.18 ppm	483X
Rainbow Trout Acute	Freshwater	87 ppm	0.18 ppm	483X
Fathead Minnow Embryolarvae	Freshwater	9.3 ppm	0.18 ppm	52X
Rainbow Trout Embryolarvae	Freshwater	26 ppm	0.18 ppm	144X
<i>Daphnia magna</i> Acute	Freshwater	225 ppm	0.18 ppm	1,250X
Eastern Oysters Acute	Saltwater	180 ppm	0.18 ppm	1,000X
Pink Shrimp Acute	Saltwater	10 ppm	0.18 ppm	55X
Fiddler Crabs Acute	Saltwater	32 ppm	0.18 ppm	177X

(1) Maximum observed concentration from a watershed treated at 2 lb./A a.i.

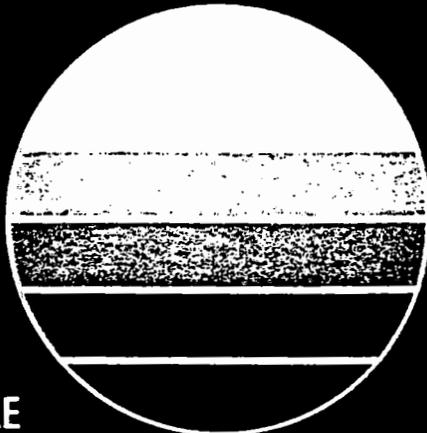
000211

# SPECIMEN LABEL ACTUAL SIZE



# Oust<sup>®</sup>

## WEED KILLER



TRADEMARK

**DISPERSIBLE  
GRANULE**

**NET WT  
3 lb**

**ACTIVE INGREDIENT:** Sulfometuron methyl  
Methyl 2-[[[(4,6-dimethyl-2-pyrimidinyl)amino]-  
carbonyl]amino]sulfonyl]benzoate ..... **75%**

**INERT INGREDIENTS** ..... **25%**

U S Patent Pending                      EPA Est. 352-WV-1                      EPA Reg. No 352-401

**KEEP OUT OF REACH OF CHILDREN.  
PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS**

**CAUTION! MAY IRRITATE EYES, NOSE, THROAT, AND SKIN.**

Avoid breathing dust or spray mist. Avoid contact with skin, eyes, and clothing. If in eyes, immediately flush with plenty of water and get medical attention. If on skin, immediately flush with plenty of water and get medical attention if irritation persists.

### ENVIRONMENTAL HAZARDS

Do not apply directly to wetlands or any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

E. I. du Pont de Nemours and Co. (Inc.), Agricultural Chemicals Dept., Wilmington, DE

### IMPORTANT

Do not use on food or feed crops. Injury to or loss of desirable trees or other plants may result from failure to observe the following: Do not apply (except as recommended), or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not apply where runoff water may flow onto agricultural land as injury to crops may result. In addition, do not apply directly to any body of water. Do not use on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of spray to desirable plants. Keep from contact with fertilizers, insecticides, fungicides and seeds.

Following an "Oust" application, the spray tank used should not be used for other than non-crop applications. This is extremely important as low rates of "Oust" can kill or severely injure most crops.

### STORAGE AND DISPOSAL

**STORAGE:** Store product in original container only, away from other pesticides, fertilizer, food, or feed.

**DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at approved waste disposal facility.

Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.



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**Stability — Oust\*** is stable for an indefinite period of time in the dry crystalline form. However, it is suggested that spray solutions not be stored more than two days because some degradation may occur in water with a pH less than 7 (slightly acid). Mixtures with other herbicides indicate physical incompatibility with alkaline formulations.

**Toxicology — Acute Oral:** LD<sub>50</sub> 5,000 mg/kg (fasted male and female rats). Approximate Lethal Dose (ALD): 17,000 mg/kg (oral, male rats).

Irritation: mild effect, eye normal in two days (Rabbits)

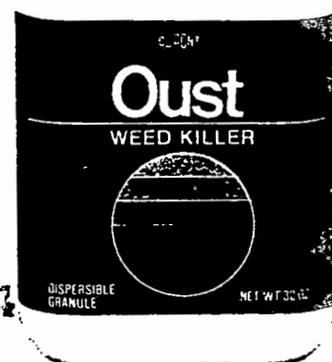
Dermal effects: mild to no irritation, no sensitization (Guinea Pig)

**Safe Handling — Handling Precautions:** Caution: OUST weed killer may irritate eyes, nose, throat and skin. Avoid breathing dust or spray mist. Avoid contact with skin, eyes and clothing. If it gets in eyes, immediately flush with plenty of water and get medical attention if irritation persists. Use precautions: Do not apply directly to lakes, streams or ponds. Do not contaminate water by cleaning of equipment or disposal of wastes.

**Behavior in Soil —** OUST is a weak acid with a pH of 5.3. In solutions buffered at pH 7, the solubility is about 300 ppm but at pH 5 is only 10 ppm. OUST soil adsorption has a K value of 1 to 3 depending on pH and organic matter content. The lower the soil pH and the higher the organic matter, the greater the adsorption. Accordingly, the mobility is usually higher in alkaline than in acid soils. Hydrolysis and microbial activity decompose OUST in the soil. The half-life-under summer field conditions is about 4 weeks but during the winter longer half-lives are to be expected and little decomposition is likely if the soil is frozen.

**Storage and Disposal —** Do not contaminate water, food or feed by storage or disposal. Pesticide Disposal: Spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to Federal, State or local procedures under the Resource Conservation and Recovery Act.

Container Disposal: Triple rinse (or equivalent) and offer for recycling or dispose of in a sanitary landfill by incineration if permitted by State and local authorities.



<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>MA 789 000 8967</b>	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address <b>W. A. LAUGHERY 2713M/200M</b>				<b>RHO-17-5-TRASH</b>		A. State Manifest Document Number	
4. Generator's Phone ( <b>509</b> ) <b>373-3236 2351</b>						B. State Generator's ID	
5. Transporter 1 Company Name <b>ROCHELL HANFORD OPERATIONS</b>		6. US EPA ID Number <b>MA 789 000 8967</b>		C. State Transporter's ID		D. Transporter's Phone <b>376-1420</b>	
7. Transporter 2 Company Name <b>NA</b>		8. US EPA ID Number <b>NA</b>		E. State Transporter's ID		F. Transporter's Phone	
9. Designated Facility Name and Site Address <b>CENTRAL LANDFILL TRASH TRENCH (NON-HAZARDOUS)</b>		10. US EPA ID Number <b>MA 789 000 8967</b>		G. State Facility's ID		H. Facility's Phone <b>509/376-6748</b>	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers	13. Total	14. Unit	
				No.	Type	Quantity	Wt/Vol
a. <b>TRIPLE RINSED 2,4-D CONTAINERS</b> <b>NONE</b> <b>NONE</b>				<b>80</b>	<b>BR</b>	<b>0</b>	<b>NA</b>
b. <b>TRIPLE RINSED BARREL CONTAINERS</b> <b>NONE</b> <b>NONE</b>				<b>16</b>	<b>BF</b>	<b>0</b>	<b>NA</b>
c. <b>TRIPLE RINSED R-11 ACTYVATOR 90 CONTAINERS</b> <b>NONE</b> <b>NONE</b>				<b>8</b>	<b>DE</b>	<b>0</b>	<b>NA</b>
d.							
J. Additional Descriptions for Materials Listed Above <b>104 TRIPLE RINSED, NON-HAZARDOUS CONTAINERS FROM WEED KILLING OPERATIONS</b>				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.							
Printed/Typed Name <b>William A. Laughery</b>				Signature <i>William A. Laughery</i>		Date <b>7   11   85</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name <b>William A. Laughery</b>				Signature <i>William A. Laughery</i>		Date <b>7   11   85</b>	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Date	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name <b>DALE CHARLES</b>				Signature <i>Dale Charles</i>		Date <b>7   11   85</b>	

9112170027

GENERATOR

TRANSPORTER

FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>MA 789 000 8967</b>		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address <b>W. A. LAUGHERY 2713W/200W</b>						RHO-17-5-TRASH					
4. Generator's Phone ( <b>509</b> ) <b>373-3235</b>											
5. Transporter 1 Company Name <b>ROCKWELL HANFORD OPERATIONS</b>				6. US EPA ID Number <b>MA 789 000 8967</b>		A. State Manifest Document Number					
7. Transporter 2 Company Name <b>NA</b>				8. US EPA ID Number <b>NA</b>		B. State Generator's ID					
9. Designated Facility Name and Site Address <b>CENTRAL LANDFILL TRASH TRENCH (NON-HAZARDOUS)</b>						10. US EPA ID Number <b>MA 789 000 8967</b>					
						C. State Transporter's ID					
						D. Transporter's Phone <b>376-1420</b>					
						E. State Transporter's ID					
						F. Transporter's Phone					
						G. State Facility's ID					
						H. Facility's Phone <b>509/376-6743</b>					
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
							No.	Type			
	a.	<b>TRIPLE RINSED 2,4-D CONTAINERS</b>				<b>NONE</b>	<b>NONE</b>	<b>80</b>	<b>DM</b>	<b>0</b>	<b>NA</b>
	b.	<b>TRIPLE RINSED BARVEL CONTAINERS</b>				<b>NONE</b>	<b>NONE</b>	<b>16</b>	<b>DF</b>	<b>0</b>	<b>NA</b>
	c.	<b>TRIPLE RINSED R-11 ACTIVATOR 90 CONTAINERS</b>				<b>NONE</b>	<b>NONE</b>	<b>8</b>	<b>DF</b>	<b>0</b>	<b>NA</b>
d.											
J. Additional Descriptions for Materials Listed Above <b>104 TRIPLE RINSED, NON-HAZARDOUS CONTAINERS FROM WEED KILLING OPERATIONS</b>						K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.											
Printed/Typed Name						Signature			Date		
									Month Day Year		
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials										
	Printed/Typed Name						Signature			Date	
									Month Day Year		
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name						Signature			Date		
									Month Day Year		
FACILITY	19. Discrepancy Indication Space										
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name						Signature			Date		
									Month Day Year		

91121700218

# Internal Letter



Rockwell International

Date July 16, 1985

No. 65950-85-319

TO: Name Organization Internal Address:

W. A. Laughery  
2713-W/200W

FROM: Name Organization Internal Address Phone:

D. R. Groth  
2750E/A-121  
3-4258

Subject: Disposal Analysis No. RHO-17-5

Ref: Chemical Waste Disposal Request, July 10, 1985

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal Request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

All packaging, labeling, and marking of the waste must be completed in accordance with the prescribed instructions, which are based on U. S. Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. A partially completed manifest is attached for your use.

After packaging, labeling, and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, a SWP&DU representative will sign the manifest. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented following compliance with the disposal instructions for Onsite Disposal in the subject Disposal Analysis, completion of the manifest and certification by the SWP&DU. Transportation arrangements can be made by contacting A. D. Poor at 6-1420.

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact J. A. Reddick (3-4733).

D. R. Groth, Manager  
Solid Waste Processing and Disposal Unit

DRG:JAR:kh

Att.

cc: G. R. Cox  
H. A. Haerer

J. A. Reddick *JAR*

000217

9112190219

DISPOSAL ANALYSIS NO. RHO-17-5

Central Landfill Trash Trench

Items listed for Trash Trench Disposal must be properly packaged, labeled, and manifested for disposal at the Hanford Central Landfill.

The waste generator must comply with the following requirements for packaging, labeling, and marking wastes for onsite disposal:

- o The 2.5 gallon plastic containers, 5 gallon metal containers, and 5 gallon metal containers must all be triple rinsed. Each rinsing must use a volume of water at least equal to 10% of the capacity of the container or inner liner.
- o The rinsates must be used in the same manner as the original contents to kill weeds.
- o All hazardous material labels must be removed from the containers, or the containers must be covered during transport so that the labels are not visible.
- o The empty containers must have an Unconditional Radiological Release prior to shipment. The sticker should be attached to the Hazardous Waste Manifest.

000218

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DISPOSAL ANALYSIS NO. RHO-17-5

ITEM NO.	DOT HAZARD CLASS	DOT SHIPPING NAME	EPA NUMBER	DOT IDENTIFICATION NUMBER	DOT LABEL	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
----------	------------------	-------------------	------------	---------------------------	-----------	-------------------	-------------------	------------------------

OFFSITE DISPOSAL

ONSITE DISPOSAL

TRASH TRENCH

1.		EMPTY TRIPLE RINSED BANVEL CONTAINERS	NONE	NONE	NONE	16	2 1/2 gal PLASTIC	0
2.		EMPTY TRIPLE RINSED 2,4-D CONTAINERS	NONE	NONE	NONE	80	5 gal METAL	0
3.		EMPTY TRIPLE RINSED R-11 ("ACTIVATOR 90) CONTAINERS	NONE	NONE	NONE	8	5 gal PLASTIC	0

000219

Complete unshaded parts and forward to  
SOU  
21000/A105/200E  
Rockwell

9 1 1 2 1 9 0 0 2 2  
Rockwell Hanford Operations  
CHEMICAL WASTE DISPOSAL REQUEST

Logbook No.

Manifest(s) cross-reference

RHO-17-5

Requested by W.A. Laughery Telephone Number 3-2351 Address 200W Company RHO  
Signature W.A. Laughery Date 7-10-85 Radiation Monitoring Release Survey Card Number (If Applicable)

WASTE DESCRIPTION (For additional items, continue on the back of this form)

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 1 ppm	L	None	None	MT	
1.	80	5gal.	0	metal can	Triple Rinsed 2-4-D Containers		0	NA	None	NA	T.R.	
2.	16	2 1/2 gal	0	plastic	Triple Rinsed Banvel Containers		0	NA	None	NA	T.R.	
3.	8	5gal.	0	plastic	Triple Rinsed ACTIVATOR 90 Containers (R-11) •SILICANT• "STICKER"		0	NA	None	NA	T.R.	

INSTRUCTIONS

COLUMN A - ITEM NUMBER - Item number for each unique waste.

COLUMN B - NUMBER OF CONTAINERS - Number of containers of a unique waste to be disposed.

COLUMN C - CONTAINER SIZE - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.

COLUMN D - TOTAL WASTE QUANTITY - Total waste quantity (in kilograms only) of each unique waste to be disposed.

COLUMN E - CONTAINER DESCRIPTION - Specify container type e.g. steel drum, glass bottle.

COLUMN F - WASTE DESCRIPTION - Specify trade name or general description of each unique waste.

COLUMN G - CHEMICAL COMPONENTS - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical or other documents to adequately describe the composition of the waste.

COLUMN H - WEIGHT (%) - For each waste component indicate percent or range of per cents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.

COLUMN I - PHYSICAL STATE - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.

COLUMN J - HAZARDS - Indicate whether waste is Corrosive (C), Flammable (F), Oxidizing (O), Explosive (E), or a Poison (P) according to DOT regulations.

COLUMN K - WASTE STATUS - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).

COLUMN L - CONTAINER STATUS - Indicate whether container is: Full (F), Partially Full (PF), Empty (< 1 in) (MT), Triple Rinsed (TR).

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		21. Generator's US EPA ID No. WA 789 000 8967		Manifest Document No. RHO-17-7		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.				
		3. Generator's Name and Mailing Address A.D. POOR 1171/GN/1100 Area 4. Generator's Phone ( 509 ) 376-1420						A. State Manifest Document Number		B. State Generator's ID		
5. Transporter 1 Company Name Rockwell Hanford Operations				6. US EPA ID Number WA 789 000 8967		C. State Transporter's ID				D. Transporter's Phone (509) 376-1420		
7. Transporter 2 Company Name				8. US EPA ID Number		E. State Transporter's ID				F. Transporter's Phone		
9. Designated Facility Name and Site Address 2727-S/200 West				10. US EPA ID Number WA 789 000 8967		G. State Facility's ID				H. Facility's Phone (509) 373-3679		
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.	
	a. <input type="checkbox"/> HM Battery Fluid, Acid ; Corrosive Material ; UN2796						No. 1		Type CF	5 gal	gal	D002 WTO2  below 400lb
	b.											
	c.											
	d.											
J. Additional Descriptions for Materials Listed Above Unused material in original container - fiberboard box with polyethylene inner container.						K. Handling Codes for Wastes Listed Above						
15. Special Handling Instructions and Additional Information												
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. <i>Verified RCRA Report 11-13-85</i>												
Printed/Typed Name <b>DENNIS POOR</b>				Signature <i>Dennis Poor</i>				Month Day Year 11   13   85				
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials											
	Printed/Typed Name <b>Timothy W Toberg</b>				Signature <i>Timothy W Toberg</i>				Month Day Year 11   13   85			
	18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name				Signature				Month Day Year				
FACILITY	19. Discrepancy Indication Space											
	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name <b>M.R. Romas</b>				Signature <i>M.R. Romas</i>				Month Day Year 11   13   85				

91121470293

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		21. Generator's US EPA ID No. <b>WA 789 000 8967</b>	Manifest Document No. <b>RHO-17-7</b>		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.		
		3. Generator's Name and Mailing Address <b>A.D. POOR 1171/GH/1100 Area</b>				A. State Manifest Document Number		
4. Generator's Phone ( <b>509</b> ) <b>376-1420</b>				6. US EPA ID Number <b>WA 789 000 8967</b>		B. State Generator's ID		
5. Transporter 1 Company Name <b>Rockwell Hanford Operations</b>			7. Transporter 2 Company Name		C. State Transporter's ID			
9. Designated Facility Name and Site Address <b>2727-S/200 West</b>			10. US EPA ID Number <b>WA 789 000 8967</b>		D. Transporter's Phone ( <b>509</b> ) <b>376-1420</b>			
					E. State Transporter's ID			
					F. Transporter's Phone			
					G. State Facility's ID			
					H. Facility's Phone <b>(509) 373-3679</b>			
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
	a.	<b>Battery Fluid, Acid ; Corrosive Material ; UN2796</b>			1	5 gal	gal	<b>D002 WT02</b>
	b.							
	c.							
	d.							
J. Additional Descriptions for Materials Listed Above <b>Unused material in original container - fiberboard box with polyethylene inner container.</b>						K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.								
Printed/Typed Name <b>DENNIS POOR</b>				Signature <i>Dennis Poor</i>		Month Day Year <b>11 13 95</b>		
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials							
	Printed/Typed Name <b>Timothy W Toberg</b>				Signature <i>Timothy W Toberg</i>		Month Day Year <b>11 13 95</b>	
	18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year		
19. Discrepancy Indication Space								
FACILITY	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.							
	Printed/Typed Name <b>M.R. Romasos</b>				Signature <i>M.R. Romasos</i>		Month Day Year <b>11 13 95</b>	

000222

TRANSPORTER

# Internal Letter



Rockwell International

Date October 23, 1985

No . 65950-85-513

TO: *Name Organization Internal Address*  
· A. D. Poor  
· Maintenance Control  
· 1171/GN/1100

FROM: *Name Organization Internal Address Phone*  
· D. R. Groth  
· 2750-E/A121/200-E  
· 3-4258

Subject: .  
Chemical Waste Disposal Analysis No. RHO-17-7

Ref: Chemical Waste Disposal Request, July 9, 1985, A. D. Poor  
to Solid Waste Processing & Disposal Unit

The Rockwell Hanford Operations' Solid Waste Processing and Disposal (SWP&D) Unit has completed a waste disposal analysis for the wastes listed in the reference. Following are instructions for waste packaging and disposal.

## General

All hazardous wastes must be packaged and transported according to Washington State Regulations WAC 173-303 and U. S. Department of Transportation (DOT) Regulations 49 CFR. Improperly packaged wastes will not be accepted by site disposal facility personnel and will be returned to you for corrections. This circumstance should, however, be prevented by the pre-shipment inspection made by our Unit personnel.

## Preparation for Shipment

Wastes must be packaged, labeled and marked by the generator according to the instructions given in the attached disposal analysis. The instructions comply with State of Washington and DOT regulations. Please note that markings must be legible, durable, and in a color which contrasts with the container. Labels are available as store stock items.

## Inspection and Manifests

When the waste has been properly packaged, SWP&D Unit personnel will make a pre-shipment inspection to verify compliance with the packaging instructions. Properly completed Uniform Hazardous Waste Manifest(s) will be delivered and initialled by the SWP&D Unit representative upon satisfactory inspection. More than one manifest may be required, depending on shipping destinations and waste compatibility.

000223

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Rockwell  
International

A. D. Poor  
Page 2  
October 23, 1985

### Shipping

Arranging transportation is a generator responsibility. Please note that shipments of non-radioactive hazardous waste will not be accepted without documentation of an unconditional radiological release or documentation of exemption from unconditional survey.

When the transporter arrives to pick up the waste, the generator must sign the manifest, obtain the transporter's signature and retain the tissue "generator copy." The original and remaining copies must accompany the shipment. When the shipment is complete, SWP&D Unit personnel will return the original copy of the manifest to the generator. Generators must keep the original, signed copy of the manifest in an auditable file.

### Audit of Activities

All waste designations, packaging, shipping, and administrative activities (and documentation) are subject to audit by authorized Washington Department of Ecology (WDOE), Department of Energy (DOE), and contractor personnel. The activities related to disposal of the referenced waste(s) must adhere to requirements in every detail. Generators who fail to adhere to requirements will have their disposal privileges revoked by WDOE and may suffer penalties as defined in governing regulations.

Please contact Mr. R. R. Rodriguez, 3-4809, for any further assistance in implementing chemical waste disposal.

D. R. Groth, Manager  
Solid Waste Processing and Disposal Unit

DRG:RRR:kh

cc:	J. E. Chulos		D. E. Phelps
	W. F. Heine	w/o att.	L. L. Powers w/o att.
	D. W. Lindsey	w/o att.	J. A. Reddick
	G. G. Meade	w/o att.	R. R. Rodriguez
	S. H. Norton		M. R. Romsos

000224

DISPOSAL ANALYSIS NO. RHO-17-7

Offsite Disposal

Items listed for Offsite Disposal must be properly packaged, labeled and manifested for shipment to an offsite disposal facility in accordance with the State of Washington law (Chapter 173-303). The Hanford generator has the responsibility for packaging and for shipping the waste to the offsite staging facility, 2727-S/200 West. Offsite disposal shipments originating from this facility will be arranged by Rockwell.

**Packaging**

- o In accordance with 49 CFR 173.257, waste must be packaged in fiberboard boxes with inside containers of polyethylene or other non-fragile electrolyte acid resistant material. (Spec. 12B or 12C)
- o The inside container must be packed to prevent movement within the box.
- o The gross weight of the box must not exceed 65 lbs.

**Labeling**

- o The DOT label(s) specified in this Disposal Analysis must be applied to the container(s). Labels may be obtained from Rockwell Central Stores.
- o A completed EPA Hazardous Waste label must be applied to each package.

**Marking**

- o The DOT Shipping Name and the DOT Identification Number specified in the Disposal Analysis must be marked on the container(s).
- o In accordance with 49 CFR 172.301 and 172.304, all markings must be legible, durable, in letters at least one-half inch high, and in a color which contrasts with the container(s).
- o The waste package must be numbered with the Disposal Analysis number RHO-17-7.

DISPOSAL ANALYSIS NO. RHO-17-7

ITEM NO.	DOT HAZARD CLASS	DOT SHIPPING NAME	WDOE NO.	USDOT ID NO.	DOT/EPA LABEL	NO. OF CONTAINERS	TYPE OF CONTAINER	AMOUNT PER CONTAINER
1	Corrosive Material	Battery Fluid, Acid	D002 WT02	UN2796	Corrosive & EPA Hazardous Waste	1	Fiberboard Box with polyethylene inner container	5 gal

000226

9 1 1 2 1 2 7 0 2 2 9

Rockwell Hanford Operations

CHEMICAL WASTE DISPOSAL REQUEST

Complete unshaded parts and forward to:  
 SP-70  
 2: A105/200E  
 Rockwell

Logbook No.

Manifest(s) cross-reference

RHO-17-7

Requested by Dennis Poor Telephone Number 376-1420 Address 11718 Hwy Company R.H.O.  
 Signature Dennis Poor Date 7-9-85 Radiation Monitoring Release Survey Card Number (If Applicable) \_\_\_\_\_

WASTE DESCRIPTION (For additional items, continue on the back of this form)

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 1 ppm	L	None	None	MT	
1	1	2 gal	55 lbs	Card board with plastic liner	ELECTROLYTE (ACID) BATTERY (ACID)	Sulfuric Acid	80%	L	C	N	F	
						Mary McCallum 6-6706	Excess					

INSTRUCTIONS

- COLUMN A - ITEM NUMBER** - Item number for each unique waste.
- COLUMN B - NUMBER OF CONTAINERS** - Number of containers of a unique waste to be disposed.
- COLUMN C - CONTAINER SIZE** - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.
- COLUMN D - TOTAL WASTE QUANTITY** - Total waste quantity (in kilograms only) for each unique waste to be disposed.
- COLUMN E - CONTAINER DESCRIPTION** - Specify container type e.g. steel drum, glass bottle.
- COLUMN F - WASTE DESCRIPTION** - Specify trade name or general description of each unique waste.
- COLUMN G - CHEMICAL COMPONENTS** - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

- COLUMN H - WEIGHT (%)** - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.
- COLUMN I - PHYSICAL STATE** - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.
- COLUMN J - HAZARDS** - Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.
- COLUMN K - WASTE STATUS** - Indicate whether waste is: Reacted (R), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).
- COLUMN L - CONTAINER STATUS** - Indicate whether container is: Full (F), Partially Full (PF), Empty (< 1 in) (MT), Triple Rinsed (TR).

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

DATE December 16, 1985

TO E. P. Rose  
1264/3000 Area

FROM J. A. Reddick *JAR*  
2750-E/AT19/200-E Area

SUBJECT: DISPOSAL OF NON-HAZARDOUS WASTE

The waste described in the attached disposal request, JAJ-17-27, is not  
hazardous and may be shipped to the Central Landfill Trash Trench. No  
Hazardous Waste Manifest is required. Transportation arrangements can  
be made by contacting Mr. A. D. Poor on 6-1420. Please note that a  
radiological release is required prior to disposal.

cc: D. R. Groth *JAR*

D. E. Phelps

A. D. Poor

✦ "TO MAKE LIFE LAST, PUT SAFETY FIRST" ✦

000228

91121270230











<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>WA 789 000 8967</b>		Manifest Document No.		2. Page 1 of <b>1</b>		Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address <b>W. A. Laughery 27131/200M</b>						<b>RHO-17-31-TRASH</b>				
4. Generator's Phone ( <b>509</b> ) <b>373-2351</b>						A. State Manifest Document Number				
5. Transporter 1 Company Name <b>ROCKWELL HANFORD OPERATIONS</b>						6. US EPA ID Number <b>WA 789 000 8967</b>				
7. Transporter 2 Company Name <b>NA</b>						8. US EPA ID Number <b>NA</b>				
9. Designated Facility Name and Site Address <b>CENTRAL LANDFILL TRASH TRENCH (NON-HAZARDOUS)</b>						10. US EPA ID Number <b>WA 789 000 8967</b>				
						B. State Generator's ID				
						C. State Transporter's ID				
						D. Transporter's Phone <b>376-1420</b>				
						E. State Transporter's ID				
						F. Transporter's Phone				
						G. State Facility's ID				
						H. Facility's Phone <b>509/376-6748</b>				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
						No.	Type			
a.	HM	<b>TRIPLE RINSED 2,4-D CONTAINERS</b>		<b>NONE</b>	<b>NONE</b>	<b>47</b>	<b>DM</b>	<b>0</b>	<b>NA</b>	
b.	HM	<b>TRIPLE RINSED BANVEL CONTAINERS</b>		<b>NONE</b>	<b>NONE</b>	<b>2</b>	<b>DF</b>	<b>0</b>	<b>NA</b>	
c.	HM	<b>TRIPLE RINSED ACTIVATOR 90 CONTAINERS</b>		<b>NONE</b>	<b>NONE</b>	<b>4</b>	<b>DF</b>	<b>0</b>	<b>NA</b>	
d.	HM									
J. Additional Descriptions for Materials Listed Above <b>53 TRIPLE RINSED, NON-HAZARDOUS CONTAINERS FROM WEED KILLING OPERATIONS.</b>						K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.										
Printed/Typed Name						Signature		Date		
								<b>OK per JAR 9-8-85</b>		
17. Transporter 1 Acknowledgement of Receipt of Materials						Signature		Date		
Printed/Typed Name <b>Lupe Guerra</b>						<i>Lupe Guerra</i>		<b>9   8   85</b>		
18. Transporter 2 Acknowledgement of Receipt of Materials						Signature		Date		
Printed/Typed Name										
19. Discrepancy Indication Space										
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.										
Printed/Typed Name <b>DE Phelps</b>						Signature <i>DE Phelps</i>		Date		
								<b>8   8   85</b>		

000234

# Internal Letter



Rockwell International

Date August 8, 1985

No . 65950-85-375

TO: (Name, Organization, Internal Address)

. W. A. Laughery  
. 2713-W/200W

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

. D. R. Groth  
. 2750E/A-121

. 3-4258

Subject: . DISPOSAL ANALYSIS NO. RHO-17-31

Ref: Chemical Waste Disposal Request, August 8, 1985

The Solid Waste Processing and Disposal Unit (SWP&DU) of Rockwell Hanford Operations (Rockwell) has completed analysis of the referenced Chemical Waste Disposal request. Disposal instructions for these wastes are prescribed in the attached, subject Disposal Analysis.

All packaging, labeling, and marking of the waste must be completed in accordance with the prescribed instructions, which are based on U. S. Department of Transportation (DOT) regulations 49 CFR 171-179. In accordance with 40 CFR 263, a properly completed Uniform Hazardous Waste Manifest is required to accompany all waste shipments. A partially completed manifest is attached for your use.

After packaging, labeling, and marking have been completed by the waste generator, inspection of the waste packages will be made by SWP&DU personnel as required to certify that the waste is prepared in the manner designated in the subject Disposal Analysis. After inspection, a SWP&DU representative will sign the manifest. Failure of the generator to comply with the instructions in the subject Disposal Analysis will result in suspension of disposal privileges for the offending facility.

Arranging for transportation of waste packages directly to the Hanford Nonradioactive Hazardous Waste Disposal Trench is a generator responsibility and may be implemented following compliance with the disposal instructions for Onsite Disposal in the subject Disposal Analysis, completion of the manifest and certification by the SWP&DU. Transportation arrangements can be made by contacting A. D. Poor at 6-1420.

Should you require further assistance regarding the disposition of the wastes listed on the subject Disposal Analysis, please contact J. A. Reddick (3-4733).

  
D. R. Groth, Manager  
Solid Waste Processing & Disposal Unit

DRG:JAR:kh

Att.

cc: G. R. Cox  
H. A. Haerer

D. E. Phelps  
A. D. Poor

J. A. Reddick JAR

000235

DISPOSAL ANALYSIS NO. RHO-17-31

Central Landfill Trash Trench

Items listed for Trash Trench Disposal must be properly packaged, labeled, and manifested for disposal at the Hanford Central Landfill.

The waste generator must comply with the following requirements for packaging, labeling, and marking wastes for onsite disposal:

- The containers must all be triple rinsed. Each rinsing must use a volume of water at least equal to 10% of the capacity of the container or inner liner.
- The rinsates must be used in the same manner as the original contents to kill weeds.
- All hazardous material labels must be removed from the containers, or the containers must be covered during transport so that the labels are not visible.
- The empty containers must have an Unconditional Radiological Release prior to shipment. The sticker should be attached to the Hazardous Waste Manifest.

000236

91121900236

DISPOSAL ANALYSIS NO. RHO-17-31

ITEM NO.	DOT HAZARD CLASS	DOT SHIPPING NAME	EPA NUMBER	DOT IDENTIFICATION NUMBER	DOT LABEL	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
<u>ONSITE DISPOSAL</u>								
1.		EMPTY TRIPLE RINSED BANVEL CONTAINERS	NONE	NONE	NONE	2	2 1/2 gal PLASTIC	0
2.		EMPTY TRIPLE RINSED 2,4-D CONTAINERS	NONE	NONE	NONE	47	5 gal METAL	0
3.		EMPTY TRIPLE RINSED R-11 ("ACTIVATOR 90") CONTAINERS	NONE	NONE	NONE	4	5 gal PLASTIC	0

000237



<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		21. Generator's US EPA ID No. WA 789 000 8967		Manifest Document No. WHC-18-3-TRASH		2. Page 1 of 2		Information in the shaded areas is not required by Federal law.			
		3. Generator's Name and Mailing Address R. D. HENSYEL W/B-46/300 AREA						A. State Manifest Document Number			
4. Generator's Phone ( 509 ) 376-5891						B. State Generator's ID					
5. Transporter 1 Company Name ROCKWELL HANFORD OPERATIONS				6. US EPA ID Number WA 789 000 8967		C. State Transporter's ID					
7. Transporter 2 Company Name NA				8. US EPA ID Number		D. Transporter's Phone 509/376-1420					
9. Designated Facility Name and Site Address CENTRAL LANDFILL TRASH TRENCH 600 AREA				10. US EPA ID Number WA 789 000 8967		E. State Transporter's ID					
						F. Transporter's Phone:					
						G. State Facility's ID					
						H. Facility's Phone: 509/376-6748					
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
	a.	METHYL ETHYL KETONE	FLAMMABLE LIQUID	UN1193	3	DM	0 BONE DRY	-	NA		
	b.	DEARBORN "ALKAFILM"	NONE	NONE	2	DM	0 BONE DRY	-	NA		
	c.	SODIUM HYDROXIDE	CORROSIVE MATERIAL	UN1823	6	DM	0 BONE DRY	-	NA		
	d.	CORROSIVE LIQUID, NOS DEARBORN "653"	CORROSIVE MATERIAL	UN1760	2	DM	0 BONE DRY	-	NA		
J. Additional Descriptions for Materials Listed Above ITEMS A,B,C,D ARE EMPTY, BONE DRY 55 GAL DRUMS, NONREGULATED AND IN POOR CONDITION.						K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information DRUMS MUST BE SEALED DURING TRANSPORT. ALL LIDS AND BUNGS MUST BE REMOVED PRIOR TO DISPOSAL IN THE TRASH TRENCH.											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.											
Printed/Typed Name					Signature			Month Day Year			
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials										
	Printed/Typed Name					Signature			Month Day Year		
	18. Transporter 2 Acknowledgement of Receipt of Materials										
Printed/Typed Name					Signature			Month Day Year			
FACILITY	19. Discrepancy Indication Space										
	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.										
Printed/Typed Name					Signature			Month Day Year			

91121200211

000239

<b>UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)</b>		21. Generator's US EPA ID No. <b>WA 789 000 8967</b>	Manifest Document No.	22. Page <b>2</b>	Information in the shaded areas is not required by Federal law.		
23. Generator's Name <b>R. D. HENSVEL</b>			<b>WHC-18-3-TRASH</b>		L. State Manifest Document Number		
					M. State Generator's ID		
24. Transporter <input checked="" type="checkbox"/> Company Name <b>ROCKWELL HANFORD OPERATIONS</b>	25. US EPA ID Number <b>WA 789 000 8967</b>		N. State Transporter's ID		O. Transporter's Phone <b>509/376-1420</b>		
26. Transporter <input type="checkbox"/> Company Name <b>NA</b>	27. US EPA ID Number		P. State Transporter's ID		Q. Transporter's Phone		
28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			29. Containers		30. Total Quantity	31. Unit Wt/Vol	
			No.	Type		R. Waste No.	
a.	<b>HM</b>	<b>TRIPLE RINSED FREON TE SOLVENT</b>	<b>NONE</b>	<b>NONE</b>	<b>11</b>	<b>DM</b>	<b>0 BONE DRY</b>
b.							
c.							
d.							
e.							
f.							
g.							
h.							
i.							
S. Additional Descriptions for Materials Listed Above <b>ITEM A: EMPTY, TRIPLE RINSED, BONE DRY DRUMS IN POOR CONDITION. DRUMS ARE NOT REGULATED.</b>					T. Handling Codes for Wastes Listed Above		
32. Special Handling Instructions and Additional Information <b>"FREON" AND ANY HAZARD LABELS MUST BE OBLITERATED AND DRUMS MARKED "TRIPLE RINSED." DRUMS MUST BE SEALED FOR TRANSPORT. ALL LIDS/BUNGS MUST BE REMOVED PRIOR TO DISPOSAL IN TRASH TRENCH.</b>							
TRANSPORTER	33. Transporter <input type="checkbox"/> Acknowledgement of Receipt of Materials					Date	
	Printed/Typed Name			Signature		Month Day Year	
RECEIVER	34. Transporter <input type="checkbox"/> Acknowledgement of Receipt of Materials					Date	
	Printed/Typed Name			Signature		Month Day Year	
FACILITY	35. Discrepancy Indication Space						
						<b>000240</b>	

91121700212

**UNIFORM HAZARDOUS WASTE MANIFEST**

WA 789 000 8967

WHC-18-3-TRASH

Page 2 of 2 Information not required by Federal law.

3. Generator's Name and Mailing Address

R. D. HENSYEL  
W/B-46/300 AREA

4. Generator's Phone ( 509 ) 376-5891

5. Transporter 1 Company Name

ROCKWELL HANFORD OPERATIONS

6. US EPA ID Number

WA 789 000 8967

7. Transporter 2 Company Name

NA

8. US EPA ID Number

9. Designated Facility Name and Site Address

CENTRAL LANDFILL TRASH TRENCH  
600 AREA

10. US EPA ID Number

WA 789 000 8967

A. State Manifest Document Number

B. State Generator's ID

C. State Transporter's ID

D. Transporter's Phone 509/376-1420

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID

H. Facility's Phone  
509/376-6748

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)

12. Containers

13. Total Quantity

14. Unit Wt/Vol

15. Waste No.

No.	Type								
a.	DM	METHYL ETHYL KETONE	FLAMMABLE LIQUID	UN1193	3	DM	0 BONE DRY	-	NA
b.	DM	DEARBORN "ALKAFILM"	NONE	NONE	2	DM	0 BONE DRY	-	NA
c.	DM	SODIUM HYDROXIDE	CORROSIVE MATERIAL	UN1823	6	DM	0 BONE DRY	-	NA
d.	DM	CORROSIVE LIQUID, NOS DEARBORN "653"	CORROSIVE MATERIAL	UN1760	2	DM	0 BONE DRY	-	NA

J. Additional Descriptions for Materials Listed Above

ITEMS A,B,C,D ARE EMPTY, BONE DRY 55 GAL DRUMS, NONREGULATED AND IN POOR CONDITION.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

DRUMS MUST BE SEALED DURING TRANSPORT.  
ALL LIDS AND BUNGS MUST BE REMOVED PRIOR TO DISPOSAL IN THE TRASH TRENCH.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. *Verified OK 11-13-85*

Printed/Typed Name

R D Hensyel

Signature

*R D Hensyel*

Month Day Year

11 14 85

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

J. A. Aldridge

Signature

*J. A. Aldridge*

Month Day Year

11 14 85

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

*M. J. Shute*

Month Day Year

11 14 85

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

M J EBERLE

Signature

*M J Eberle*

Month Day Year

11 14 85

9112100013

GENERATOR TRANSPORTER FACILITY

UNIFORM HAZARDOUS  
WASTE MANIFEST  
(Continuation Sheet)

US EPA ID No. WA 789 000 8967

Document No.

2

Information in the shaded areas is not required by Federal law.

23. Generator's Name

R. D. HENSYEL

WHC-18-3-TRASH

L. State Manifest Document Number

M. State Generator's ID

24. Transporter  Company Name

ROCKWELL HANFORD OPERATIONS

25. US EPA ID Number

WA 789 000 8967

N. State Transporter's ID

O. Transporter's Phone 509/376-1420

26. Transporter  Company Name

NA

27. US EPA ID Number

P. State Transporter's ID

C. Transporter's Phone

28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

29. Containers

30. Total Quantity

31. Unit Wt/Vol

R. Waste No.

a. TRIPLE RINSED  
FREON TE SOLVENT

NONE

NONE

11

DM

0  
BONE DRY

-

NA

b.

S. Additional Descriptions for Materials Listed Above

ITEM A: EMPTY, TRIPLE RINSED, BONE DRY DRUMS IN POOR CONDITION. DRUMS ARE NOT REGULATED.

T. Handling Codes for Wastes Listed Above

32. Special Handling Instructions and Additional Information

"FREON" AND ANY HAZARD LABELS MUST BE OBLITERATED AND DRUMS MARKED "TRIPLE RINSED." DRUMS MUST BE SEALED FOR TRANSPORT. ALL LIDS/BUNGS MUST BE REMOVED PRIOR TO DISPOSAL IN TRASH TRENCH.

33. Transporter  Acknowledgement of Receipt of Materials

Date

Printed/Typed Name

Signature

Month Day Year

J. A. Aldridge

J. A. Aldridge

11 14 85

34. Transporter  Acknowledgement of Receipt of Materials

Date

Printed/Typed Name

Signature

Month Day Year

M. J. EBERLE

M. J. Eberle

11 14 85

35. Discrepancy Indication Space

000242

9112100214

TRANSPORT FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		21. Generator's US EPA ID No. <b>WA 789 000 8967</b>	Manifest Document No. <b>WHC-18-3-TRASH</b>	2. Page 1 of <b>2</b>	Information in the shaded areas is not required by Federal law.				
3. Generator's Name and Mailing Address <b>R. D. HENSYEL W/B-46/300 AREA</b>				A. State Manifest Document Number					
				B. State Generator's ID					
4. Generator's Phone ( <b>509</b> ) <b>376-5891</b>				C. State Transporter's ID					
5. Transporter 1 Company Name <b>ROCKWELL HANFORD OPERATIONS</b>		6. US EPA ID Number <b>WA 789 000 8967</b>		D. Transporter's Phone <b>509/376-1420</b>					
7. Transporter 2 Company Name <b>NA</b>		8. US EPA ID Number		E. State Transporter's ID					
9. Designated Facility Name and Site Address <b>CENTRAL LANDFILL TRASH TRENCH 600 AREA</b>				F. Transporter's Phone					
				G. State Facility's ID					
10. US EPA ID Number <b>WA 789 000 8967</b>				H. Facility's Phone <b>509/376-6748</b>					
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
						No.	Type		
a.	METHYL ETHYL KETONE	FLAMMABLE LIQUID	UN1193	3	DM	0 BONE DRY	-	NA	
b.	DEARBORN "ALKAFILM"	NONE	NONE	2	DM	0 BONE DRY	-	NA	
c.	SODIUM HYDROXIDE	CORROSIVE MATERIAL	UN1823	6	DM	0 BONE DRY	-	NA	
d.	CORROSIVE LIQUID, NOS DEARBORN "653"	CORROSIVE MATERIAL	UN1760	2	DM	0 BONE DRY	-	NA	
J. Additional Descriptions for Materials Listed Above <b>ITEMS A,B,C,D ARE EMPTY, BONE DRY 55 GAL DRUMS, NONREGULATED AND IN POOR CONDITION.</b>						K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information <b>DRUMS MUST BE SEALED DURING TRANSPORT. ALL LIDS AND BUNGS MUST BE REMOVED PRIOR TO DISPOSAL IN THE TRASH TRENCH.</b>									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. <i>see also label 11-13-85</i>									
Printed/Typed Name <b>R D Hensyel</b>					Signature <i>R D Hensyel</i>			Month Day Year <b>11 14 85</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name <i>J.A. Ald...</i>					Signature <i>J.A. Ald...</i>			Month Day Year <b>11 14 85</b>	
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name					Signature <i>M. J. Sh...</i>			Month Day Year <b>11 14 85</b>	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name <b>M J EBERLE</b>					Signature <i>M. J. Sh...</i>			Month Day Year <b>11 14 85</b>	

000243

<b>UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)</b>		21. Generator's US EPA ID No. <b>WA 789 000 8967</b>	Manifest Document No.	22. Page <b>2</b>	Information in the shaded areas is not required by Federal law.		
23. Generator's Name <b>R. D. HENSYEL</b>		<b>WHC-18-3-TRASH</b>		L. State Manifest Document Number:			
				M. State Generator's ID			
24. Transporter <u>1</u> Company Name <b>ROCKWELL HANFORD OPERATIONS</b>	25. US EPA ID Number <b>WA 789 000 8967</b>		N. State Transporter's ID		O. Transporter's Phone <b>509/376-1420</b>		
26. Transporter <u>    </u> Company Name <b>NA</b>	27. US EPA ID Number		P. State Transporter's ID		Q. Transporter's Phone		
28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		29. Containers No.	Type	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.	
a.	<b>TRIPLE RINSED FREON TE SOLVENT</b>	<b>NONE</b>	<b>NONE</b>	<b>11</b>	<b>DM</b>	<b>0 BONE DRY</b>	
b.							
c.							
d.							
e.							
f.							
g.							
h.							
i.							
S. Additional Descriptions for Materials Listed Above <b>ITEM A: EMPTY, TRIPLE RINSED, BONE DRY DRUMS IN POOR CONDITION. DRUMS ARE NOT REGULATED.</b>				T. Handling Codes for Wastes Listed Above			
32. Special Handling Instructions and Additional Information <b>"FREON" AND ANY HAZARD LABELS MUST BE OBLITERATED AND DRUMS MARKED "TRIPLE RINSED." DRUMS MUST BE SEALED FOR TRANSPORT. ALL LIDS/BUNGS MUST BE REMOVED PRIOR TO DISPOSAL IN TRASH TRENCH.</b>							
33. Transporter <u>    </u> Acknowledgement of Receipt of Materials					Date		
Printed/Typed Name <b>TA ALLEN</b>			Signature <i>[Signature]</i>		Month Day Year <b>11 14 85</b>		
34. Transporter <u>1</u> Acknowledgement of Receipt of Materials					Date		
Printed/Typed Name <b>M J EBERLE</b>			Signature <i>[Signature]</i>		Month Day Year <b>11 14 85</b>		
35. Discrepancy Indication Space					<b>000244</b>		

9 11 2 10 2 1 6

GENERATOR

TRANSPORTER FACILITY

11-12-85

Per phone with R.D. Hensyel -  
Drums ARE in poor condition  
and should be shipped to TRASH

WHC-20-01 is included as  
the request was corrected and  
drums are not regulated - as  
they are Triple rinsed and in  
poor condition



Rockwell  
International

Rockwell Hanford Operations  
Energy Systems Group  
P.O. Box 800  
Richland, WA 99352

In reply, refer to letter R85-4346

Drums are bone dry per  
R.D. Hensyel. ROM

OUTGOING LTR. NO.			
R85-4346			
INCOMING LTR. NO.			
TION			
REPLY DUE			
DIST:		LTR.	ENCL.
Ash, E.B.			APPL.
Bartholomew, D.C.			
Bellofatto, M.			
Campise, A.V.			
Carey, J.M.			
Crawford, A.C.		X	
Deichman, J.L.			
Di Pol, C.V.			
Donahue, J.W.			
Gimera, R.J.			
Gruhn, R.S.			
Heineman, R.E.			
Knight, B.E.			
Larson, M.P.			
Lorenzini, P.G.		X	
Merritt, R.J.			
Peterson, J.W.		X	
Perkins, J.O.			
Prosser, R.D.			
Reeser, A.L.			
Roecker, J.H.		X	
Weil, V.R.			
Wodrich, D.D.			
Zahn, L.L.			
Contract Administrator		X	
Central Files		XX	
J. E. CHULOS		XX	
D. R. GROTH		X	
W. F. HEINE		X	
D. W. LINDSEY		X	
G. G. MEADE		X	
S. H. NORTON		XX	
D. E. PHELPS		XX	
A. D. POOR		XX	
L. L. POWERS		X	
M. R. ROMSOS		XX	
J. A. REDDICK		XX	
NOV 01 1985			
54-6000-117			

NOV 01 1985

Mr. R. D. Hensyel  
Westinghouse Hanford Company  
P. O. Box 1970  
Richland, Washington 99352

Dear Mr. Hensyel:

CHEMICAL WASTE DISPOSAL ANALYSIS NO. WHC-18-3

Reference: Chemical Waste Disposal Request, August 9, 1985,  
R. D. Hensyel to Solid Waste Processing and Disposal Unit

The Rockwell Hanford Operations' Solid Waste Processing and Disposal (SWP&D) Unit has completed a waste disposal analysis for wastes listed in the reference. Following are instructions for waste packaging and disposal.

General

All hazardous wastes must be packaged and transported according to Washington State Regulations WAC 173-303 and U. S. Department of Transportation (DOT) Regulations 49 CFR. Improperly packaged wastes will not be accepted by site disposal facility personnel and will be returned to you for corrections. This circumstances should, however, be prevented by the pre-shipment inspection made by our unit personnel.

Preparation for Shipment

Wastes must be packaged, labeled and marked by the generator according to the instructions given in the attached disposal analysis. The instructions must comply with State of Washington and DOT regulations. Please note that markings must be legible, durable, and in a color which contrasts with the container. Labels are available as store stock items.

Inspection and Manifests

When the waste has been properly packaged, SWP&D Unit personnel will make a pre-shipment inspection to verify compliance with the packaging instructions. Properly completed Uniform Hazardous Waste Manifest(s) will be delivered and initialled by the SWP&D Unit representative upon satisfactory inspection. More than one manifest may be required, depending on shipping destinations and waste compatability.

000245



Rockwell  
International

R. D. Hensyel  
Page 2

NOV 01 1985

Shipping, Radiological Release, and Manifest

Arranging transportation is a generator responsibility. Transportation arrangements can be made by contacting Mr. A. D. Poor on 376-1420. Please note that shipments of non-radioactive hazardous waste will not be accepted without documentation of an unconditional radiological release or documentation of exemption from unconditional survey.

When the transporter arrives to pick up the waste, the generator must sign the manifest, obtain the transporter's signature and retain the tissue "generator copy." The original and remaining copies must accompany the shipment. When the shipment is complete, SWP&D Unit personnel will return the original copy of the manifest to the generator. Generators must keep the original, signed copy of the manifest in an auditable file.

Audit of Activities

All waste designations, packaging, shipping, and administrative activities (and documentation) are subject to audit by authorized Washington Department of Ecology (WDOE), U. S. Department of Energy (DOE), and contractor personnel. The activities related to disposal of the referenced waste(s) must adhere to requirements in every detail. Generators who fail to adhere to requirements will have their disposal privileges revoked by WDOE and may suffer penalties as defined in governing regulations.

Please contact Mrs. J. A. Reddick on 373-4733 for any further assistance in implementing chemical waste disposal.

Very truly yours,

D. R. Groth, Manager  
Solid Waste Processing and Disposal Unit

DRG:JAR:kh

000246

91121990248

DISPOSAL ANALYSIS NO. WHC-18-3

~~Non-Regulated Empty Drum Storage~~ TRASH TRENCH (wa)

Items listed in the attached table for empty drum storage must be prepared as follows:

**Packaging**

- Each drum must be empty, containing less than 1 inch of liquid.
- All bungs must be securely in place.

**Labeling**

- DOT labels, as listed in the attached table, must be affixed to each drum.

**Marking**

- The DOT shipping name and identification number listed in the attached table must be marked on each drum.
- Each drum must be marked with the manifest number, WHC-18-3<sup>TRASH</sup> and the unique drum number listed in the attached table.

Items Requiring Additional Information

The item listed below from the referenced waste disposal request cannot be processed at this time due to lack of information. Please obtain the information requested below and resubmit this waste on a new Waste Disposal Request Form. A new, partially completed form with the assigned number WHC-20-1 is enclosed for your use.

1. Item No. 3, 11 empty drums of "FREON-TE-SOLVENT"

Please supply a Material Safety Data Sheet (MSDS) for this waste. This information is needed in order to identify the chemical composition. HEHF has Material Safety Data Sheets available. You will need to tell them the manufacturer's name as well as the trade name. The SWP&D Unit cannot complete a waste designation unless the chemical composition is known.

If there is any residual liquid in these drums, the total amount must be estimated. Empty fresh drums are Extremely Hazardous Waste, so all residual quantities must be tracked.

000247

91121900219

DISPOSAL ANALYSIS NO. WHC-18-3

ITEM NO.	DOT HAZARD CLASS	DOT SHIPPING NAME	EPA NUMBER	DOT IDENTIFICATION NUMBER	DOT LABEL	NO. OF CONTAINERS	TYPE OF CONTAINER	QUANTITY PER CONTAINER
<del>OFFSITE DISPOSAL TRASH TRENCH</del>								
<del>TRASH TRENCH</del>								
<del>Non-Regulated Empty Drum Storage Area - Manifest No. WHC-18-3A 3-TRASH</del>								
186, 187, 210	Flammable Liquid	Methyl Ethyl Ketone	NONE	UN1193	Flammable Liquid	3	55 gal DM	0
188, 189	NONE	Dearborn "Alkafilm"	NONE	NONE	NONE	2	55 gal DM	0
200-205	Corrosive Material	Sodium Hydroxide	NONE	UN1823	Corrosive	6	55 gal DM	0
207, 208	Corrosive Material	Dearborn "653" Corrosive Liquid, NOS	NONE	UN1760	Corrosive	2	55 gal DM	0
190-199, 209	NONE	TRIPLE RINSED Freon TE SOLVENT DRUMS	NONE	NONE	None	11	55 gal DM	0
						24		

000248

9 1 1 2 1 4 7 0 2 1 1

Complete undated parts and forward to: &DU 2750E/A105/200E Rockwell	<b>Rockwell Han Operations</b> <b>CHEMICAL WASTE DISPOSAL REQUEST</b>	Logbook No. <b>HEDL-85-36</b> Manifest(s) cross-reference <p style="text-align: center;"><b>WHC-20-01</b></p> was on WHC-18-3	
Requested by <b>R. D. Hensyel</b>	Telephone Number <b>6-5891</b>	Address <b>W/A-46</b>	Company <b>WHC</b>
Signature _____ Date _____		Radiation Monitoring Release Survey Card Number (If Applicable) _____	

**WASTE DESCRIPTION (For additional items, continue on the back of this form)**

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	46	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	None	MT	
1	11	55GAL		STEEL DRUM	FREON-TE-SOLVENT			L	-	N	MT	

**INSTRUCTIONS**

- COLUMN A - ITEM NUMBER** - Item number for each unique waste.
- COLUMN B - NUMBER OF CONTAINERS** - Number of containers of a unique waste to be disposed.
- COLUMN C - CONTAINER SIZE** - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.
- COLUMN D - TOTAL WASTE QUANTITY** - Total waste quantity (in kilograms only) of each unique waste to be disposed.
- COLUMN E - CONTAINER DESCRIPTION** - Specify container type e.g. steel drum, glass bottle.
- COLUMN F - WASTE DESCRIPTION** - Specify trade name or general description of each unique waste.
- COLUMN G - CHEMICAL COMPONENTS** - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

- COLUMN H - WEIGHT (%)** - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.
- COLUMN I - PHYSICAL STATE** - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.
- COLUMN J - HAZARDS** - Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.
- COLUMN K - WASTE STATUS** - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).
- COLUMN L - CONTAINER STATUS** - Indicate whether container is: Full (F), Partially Full (PF), Empty (< 1 in) (MT), Triple Rinsed (TR).

0000219

9 1 1 2 1 7 0 0 2 7 2

Complete unshaded parts and forward to: DU 2750E/A105/200E Rockwell	<b>Rockwell Hanfr Operations</b> <b>CHEMICAL WASTE DISPOSAL REQUEST</b>	Logbook No. HEDL 85 Manifest(s) cross-reference WHC-18-3	
Requested by <b>R. D. Hensyel</b>	Telephone Number <b>6-5891</b>	Address <b>W/A-46</b>	Company <b>WHC</b>
Signature <u><i>R.D. Hensyel</i></u> Date <u><i>8-9-85</i></u>		Radiation Monitoring Release Survey Card Number (If Applicable) _____	

**WASTE DESCRIPTION (For additional items, continue on the back of this form)**

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	None	MT	
1	3	55 gal	0	Steel Drum	Empty Methyethyl Keytone	OK					MT	#186 & 187 & 210
2	2	55 gal	0	Steel Drum	Empty Dearborn Alkafilm	OK - have MSDS + Composition					MT	#188 & 189
3	11	55 gal	0	Steel Drum	Empty Fneon-TE-Solvent	used mfr. + MSDS to know type					MT	#190 to 199 & 209
4	6	55 gal	0	Steel Drum	Empty Caustic Soda	OK NaOH					MT	#200 & 205
5	2	55 gal	0	Steel Drum	Empty Dearborn 653	OK - have MSDS + Composition					MT	#207 & 208

**INSTRUCTIONS**

- COLUMN A - ITEM NUMBER** - Item number for each unique waste.
- COLUMN B - NUMBER OF CONTAINERS** - Number of containers of a unique waste to be disposed.
- COLUMN C - CONTAINER SIZE** - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.
- COLUMN D - TOTAL WASTE QUANTITY** - Total waste quantity (in kilograms only) of each unique waste to be disposed.
- COLUMN E - CONTAINER DESCRIPTION** - Specify container type e.g. steel drum, glass bottle.
- COLUMN F - WASTE DESCRIPTION** - Specify trade name or general description of each unique waste.
- COLUMN G - CHEMICAL COMPONENTS** - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

- COLUMN H - WEIGHT (%)** - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.
- COLUMN I - PHYSICAL STATE** - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.
- COLUMN J - HAZARDS** - Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.
- COLUMN K - WASTE STATUS** - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).
- COLUMN L - CONTAINER STATUS** - Indicate whether container is: Full (F), Partially Full (PF), Empty (- 1 in) (MT), Triple Rinsed (TR).

000250



<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		21. Generator's US EPA ID No. WA 789 000 8967	Manifest Document No. UNC 18-7-	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.		
		3. Generator's Name and Mailing Address  J.R. Cooper 1114N/ 100 N Area 4. Generator's Phone ( ) (509) 373-4939			A. State Manifest Document Number  B. State Generator's ID		
5. Transporter 1 Company Name Rockwell Hanford Operations		6. US EPA ID Number WA 789 000 8967	C. State Transporter's ID D. Transporter's Phone 509-376-1420				
7. Transporter 2 Company Name		8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone				
9. Designated Facility Name and Site Address  Central Landfill Trash Trench 600 Area / Hanford Site		10. US EPA ID Number WA 789 000 8967	G. State Facility's ID  H. Facility's Phone 509-376-6748				
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
	a.	Miscellaneous Electrical Equipment	3	DM	522.99	Kg	
	b.						
	c.						
	d.						
J. Additional Descriptions for Materials Listed Above  Drums contain brackets, Non-PCB electrical transformers. (Non-PCB items shall be packaged in DOT 17-B drums).				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information  DISPOSED IN TRENCH # _____							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.							
Printed/Typed Name		Signature		Month Day Year			
JOEL COOPER		<i>Joel Cooper</i>		MAY 1985			
(Inspected by: M.B. Walmsley)		Signature		Month Day Year			
M.B. Walmsley		<i>M.B. Walmsley</i>		10/15/85			
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials						
	Printed/Typed Name		Signature		Month Day Year		
TIMOTHY W TOBERG		<i>Timothy W Toberg</i>		12/17/85			
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name		Signature		Month Day Year			
19. Discrepancy Indication Space							
FACILITY	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
	Printed/Typed Name		Signature		Month Day Year		
D E Phelps		<i>D E Phelps</i>		12/17/85			

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		21. Generator's US EPA ID No. <b>WA 789 000 8967</b>		Manifest Document No. <b>UNC 18-7-</b>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.			
		3. Generator's Name and Mailing Address <b>J.R. Cooper 1114N/ 100N Area Generator's Phone (509) 373-4939</b>						A. State Manifest Document Number B. State Generator's ID			
5. Transporter 1 Company Name <b>Rockwell Hanford Operations</b>			6. US EPA ID Number <b>WA 789 000 8967</b>			C. State Transporter's ID				D. Transporter's Phone <b>509-376-1420</b>	
7. Transporter 2 Company Name			8. US EPA ID Number			E. State Transporter's ID		F. Transporter's Phone			
9. Designated Facility Name and Site Address <b>Central Landfill Trash Trench 600 Area / Hanford Site</b>			10. US EPA ID Number <b>WA 789 000 8967</b>			G. State Facility's ID		H. Facility's Phone <b>509-376-6748</b>			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.	
						No.	Type				
a.	HM	<b>Miscellaneous Electrical Equipment</b>				<b>3</b>	<b>DM</b>	<b>522.99</b>	<b>Kg</b>		
b.											
c.											
d.											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.						17. Additional Descriptions for Materials Listed Above <b>Drums contain brackets, Non-PCB electrical transformers. (Non-PCB items shall be packaged in DOT 17-H drums).</b>				18. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information <b>DISPOSED IN TRENCH # _____</b>											
GENERATOR	Printed/Typed Name <b>JOEL COOPER</b>		Signature <i>Joel Cooper</i>		Month Day Year <b>March 1985</b>						
	Printed/Typed Name <b>Timothy W Toberg</b>		Signature <i>Timothy Toberg</i>		Month Day Year <b>12/17/85</b>						
	Printed/Typed Name		Signature		Month Day Year						
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials										
	18. Transporter 2 Acknowledgement of Receipt of Materials										
FACILITY	19. Discrepancy Indication Space										
	Printed/Typed Name <b>D E PHILIPS</b>		Signature <i>D E Philips</i>		Month Day Year <b>12/17/85</b>						

000253

91121700255

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

DATE December 16, 1985

TO E. P. Rose  
1264/3000 Area

FROM J. A. Reddick <sup>JAR</sup>  
2750-E/AT19/200-E Area

SUBJECT: DISPOSAL OF NON-HAZARDOUS WASTE

The waste described in the attached disposal request, JAJ-18-19, is not hazardous and may be shipped to the Central Landfill Trash Trench. Five-percent (5%) unused motor oil in soil is not a WDOE Dangerous Waste. No Hazardous Waste Manifest is required. Transportation arrangements can be made by contacting Mr. A. D. Poor on 6-1420. Please note that a radiological release is required prior to disposal.

cc: D. R. Groth <sup>JAR</sup>  
D. E. Phelps  
A. D. Poor

TO MAKE LIFE LAST, PUT SAFETY FIRST

000254

9 1 1 2 1 2 0 2 7

Complete undamaged parts and forward to:   
 DU   
 2750E/A105/200E   
 Rockwell

Rockwell Hanford Operations   
**CHEMICAL WASTE DISPOSAL REQUEST**

Logbook No.   
 Manifest(s) cross-reference   
 JAS-18-19

Requested by **E.P. ROSE** Telephone Number **6-6757** Address **1264/3000** Company **JAJCSC**

Signature *El Rose* Date **8-23-85** Radiation Monitoring Release Survey Card Number (If Applicable)

**WASTE DESCRIPTION (For additional items, continue on the back of this form)**

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	None	MT	
1	8	55 gal	220/dm	STEEL DRUM	DIRT CONTAMINATED W/MOTOR OIL	MOTOR OIL INORGANIC SOIL <i>Non PCB - from orig contain</i>	5.0 95.0	S	NONE	S	F	
						UNUSED OIL.						

**INSTRUCTIONS**

- COLUMN A - ITEM NUMBER** - Item number for each unique waste.
- COLUMN B - NUMBER OF CONTAINERS** - Number of containers of a unique waste to be disposed.
- COLUMN C - CONTAINER SIZE** - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.
- COLUMN D - TOTAL WASTE QUANTITY** - Total waste quantity (in kilograms only) of each unique waste to be disposed.
- COLUMN E - CONTAINER DESCRIPTION** - Specify container type e.g. steel drum, glass bottle.
- COLUMN F - WASTE DESCRIPTION** - Specify trade name or general description of each unique waste.
- COLUMN G - CHEMICAL COMPONENTS** - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

- COLUMN H - WEIGHT (%)** - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.
- COLUMN I - PHYSICAL STATE** - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.
- COLUMN J - HAZARDS** - Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.
- COLUMN K - WASTE STATUS** - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).
- COLUMN L - CONTAINER STATUS** - Indicate whether container is: Full (F), Partially Full (PF), Empty (< 1 in) (MT), Triple Rinsed (TR).

*Il # Item 1 - New 85-400-003/10*



54-3000-101(2-59)

CC: D.R. Groth, A.D. Poor, D.E. Phelps  
M.W. McCoy

✓  
DONT SAY IT --- Write It!

DATE 9-20-85

TO J.M. Hobbs/6-1631

FROM J.A. Reddick/3-4733 *PRM*

Subject: Disposal Request PNL-85-18 (Portland Cement)

Portland Cement (dry) packaged in previously unused drums may be disposed of  
in the sanitary landfill. A uniform hazardous waste manifest is not required  
for this material as it is an ordinary construction waste.

PNL-19-1 (RHO\*)

9-25-85

*put in trash  
trench - manifest  
not required.*



"TO MAKE LIFE LAST, PUT SAFETY FIRST"



000257



9 1 1 2 1 9 0 0 2 1

Rockwell Hanford Operations

CHEMICAL WASTE DISPOSAL REQUEST

Complete unshaded parts and forward to: 5 DU  
200E/A105/200E  
Rockwell

Logbook No. \_\_\_\_\_  
Manifest(s) cross-reference  
PNL-19-1

Requested by: Jeene Hobbs Telephone Number: 6-1631 Address: 3762/300 Area Company: PNL

Signature: Jeene M Hobbs Date: Sept 13, 1985 Radiation Monitoring Release Survey Card Number (If Applicable): \_\_\_\_\_

WASTE DESCRIPTION (For additional items, continue on the back of this form) PNL-85-018

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	65 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	None	MT	
1	31	55 gal	10,850#	steel drum	portland cement dry	(never mixed)		S	none	0	1/3 F	
					CALL A.D. POG.							
					Drums ARE NEW PA Mike McCoy							
This material located a 237 Building/200 W Area. Contact Bob Abrams on 375-2303 for more information.												
We need to move this stuff this fiscal year (ASAP). Thank you.												

INSTRUCTIONS

- COLUMN A - ITEM NUMBER - Item number for each unique waste.
- COLUMN B - NUMBER OF CONTAINERS - Number of containers of a unique waste to be disposed.
- COLUMN C - CONTAINER SIZE - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.
- COLUMN D - TOTAL WASTE QUANTITY - Total waste quantity (in kilograms only) of each unique waste to be disposed.
- COLUMN E - CONTAINER DESCRIPTION - Specify container type e.g. steel drum, glass bottle.
- COLUMN F - WASTE DESCRIPTION - Specify trade name or general description of each unique waste.
- COLUMN G - CHEMICAL COMPONENTS - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

- COLUMN H - WEIGHT (%) - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.
- COLUMN I - PHYSICAL STATE - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.
- COLUMN J - HAZARDS - Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.
- COLUMN K - WASTE STATUS - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).
- COLUMN L - CONTAINER STATUS - Indicate whether container is: Full (F), Partially Full (PF), Empty (< 1 in) (MT), Triple Rinsed (TR).

CC: D.R. Groth, A.D. Poor, D.E. Phelps  
M.W. McCoy

**DONT SAY IT --- Write It!**

DATE 9-20-85

TO J.M. Hobbs/6-1631

FROM J.A. Reddick/3-4733 *DRH*

Subject: Disposal Request PNL-85-18 (Portland Cement)

Portland Cement (dry) packaged in previously unused drums may be disposed of in the sanitary landfill. A uniform hazardous waste manifest is not required for this material as it is an ordinary construction waste.

+ "TO MAKE LIFE LAST, PUT SAFETY FIRST"

000260

911217032

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		21. Generator's US EPA ID No. WA 789 000 8967		Manifest Document No. RHO-19-31-TRASH		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.				
		3. Generator's Name and Mailing Address L. GUERRA 2713-W/200W						A. State Manifest Document Number		B. State Generator's ID		
4. Generator's Phone ( 509 ) 373-2351						6. US EPA ID Number WA 789 000 8967		C. State Transporter's ID		D. Transporter's Phone: 509/376-1420		
5. Transporter 1 Company Name ROCKWELL HANFORD OPERATIONS						7. Transporter 2 Company Name NA		8. US EPA ID Number		E. State Transporter's ID		
9. Designated Facility Name and Site Address CENTRAL LANDFILL TRASH TRENCH						10. US EPA ID Number WA 789 000 8967		G. State Facility's ID		H. Facility's Phone: 509/376-6748		
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol	
							No. Type				L. Waste No.	
	a. TRIPLE RINSED "BANVEL" CONTAINERS NONE NONE						6 DF		0 -		NA	
	b. TRIPLE RINSED "FENAMINE" CONTAINERS NONE NONE						28 DF		0 -		NA	
	c. TRIPLE RINSED "2,4-D" CONTAINERS NONE NONE						8 DM		0 -		NA	
d. TRIPLE RINSED "ROUNDUP" CONTAINERS NONE NONE						4 DF		0 -		NA		
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above						
ITEM A - TRIPLE RINSED 2.5 GAL PLASTIC BOTTLES ITEM B - TRIPLE RINSED 2.5 GAL PLASTIC BOTTLES ITEM C - TRIPLE RINSED 5 GAL METAL CANS ITEM D - TRIPLE RINSED 1 GAL PLASTIC BOTTLES												
15. Special Handling Instructions and Additional Information ITEMS A, B, C, AND D ARE NOT REGULATED WASTE.												
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. <span style="float: right;">OK per IAR 12-R-85</span>												
Printed/Typed Name LUPE GUERRA						Signature <i>Lupe Guerra</i>			Month Day Year 12 13 85			
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials						Signature <i>Scott Webb</i>			Month Day Year 12 13 85		
	Printed/Typed Name Scott Webb						Signature <i>Scott Webb</i>			Month Day Year 12 13 85		
FACILITY	18. Transporter 2 Acknowledgement of Receipt of Materials						Signature			Month Day Year		
	Printed/Typed Name						Signature			Month Day Year		
19. Discrepancy Indication Space												
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.												
Printed/Typed Name D.E. Phelps						Signature <i>D.E. Phelps</i>			Month Day Year 12 13 85			

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		21. Generator's US EPA ID No. <b>WA 789 000 8967</b>		Manifest Document No. <b>RHO-19-31-TRASH</b>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.			
		3. Generator's Name and Mailing Address <b>L. GUERRA 2713-W/200W</b>						A. State Manifest Document Number			
4. Generator's Phone ( <b>509</b> ) <b>373-2351</b>						B. State Generator's ID					
5. Transporter 1 Company Name <b>ROCKWELL HANFORD OPERATIONS</b>				6. US EPA ID Number <b>WA 789 000 8967</b>		C. State Transporter's ID					
7. Transporter 2 Company Name <b>NA</b>				8. US EPA ID Number		D. Transporter's Phone <b>509/376-1420</b>					
9. Designated Facility Name and Site Address <b>CENTRAL LANDFILL TRASH TRENCH</b>				10. US EPA ID Number <b>WA 789 000 8967</b>		E. State Transporter's ID					
						F. Transporter's Phone					
						G. State Facility's ID					
						H. Facility's Phone <b>509/376-6748</b>					
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.	
	a. <b>TRIPLE RINSED "BANVEL" CONTAINERS</b> NONE      NONE					6		DF	0	-	NA
	b. <b>TRIPLE RINSED "FENAMINE" CONTAINERS</b> NONE      NONE					28		DF	0	-	NA
	c. <b>TRIPLE RINSED "2,4-D" CONTAINERS</b> NONE      NONE					8		DM	0	-	NA
	d. <b>TRIPLE RINSED "ROUNDUP" CONTAINERS</b> NONE      NONE					4		DF	0	-	NA
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above					
ITEM A: TRIPLE RINSED 2.5 GAL PLASTIC BOTTLES ITEM B: TRIPLE RINSED 2.5 GAL PLASTIC BOTTLES ITEM C: TRIPLE RINSED 5 GAL METAL CANS ITEM D: TRIPLE RINSED 1 GAL PLASTIC BOTTLES											
15. Special Handling Instructions and Additional Information											
<b>ITEMS A, B, C, AND D ARE NOT REGULATED WASTE.</b>											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.											
Printed/Typed Name <b>LULPE GUERRA</b>				Signature <i>Lulpe Guerra</i>		Month Day Year <b>12 13 85</b>					
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials										
	Printed/Typed Name <b>Scott Webb</b>				Signature <i>Scott Webb</i>		Month Day Year <b>12 13 85</b>				
	18. Transporter 2 Acknowledgement of Receipt of Materials										
Printed/Typed Name				Signature		Month Day Year					
FACILITY	19. Discrepancy Indication Space										
	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.										
Printed/Typed Name <b>D.E. Phelps</b>				Signature <i>D.E. Phelps</i>		Month Day Year <b>12 13 85</b>					

# Internal Letter



Rockwell International

Date November 5, 1985

No . 65950-85-541

TO: *Name, Organization, Internal Address*

. L. Guerra  
. Ground Maintenance  
. 2713-W/200-W

FROM: *Name, Organization, Internal Address, Phone*

. D. R. Groth  
. 2750-E/A121/200-E  
. 3-4258

Subject: . Chemical Waste Disposal Analysis No. RHO-19-31

Ref: Chemical Waste Disposal Request, October 14, 1985,  
L. Guerra to Solid Waste Processing and Disposal Unit

The Solid Waste Processing and Disposal (SWP&D) Unit has completed a waste disposal analysis for wastes identified in the reference. Instructions for waste packaging and disposal are:

## General

All hazardous wastes must be packaged and transported according to Washington State Regulations WAC 173-303 and U. S. Department of Transportation (DOT) Regulations 49 CFR. Improperly packaged wastes will not be accepted by site disposal facility personnel and will be returned to you for corrections. This circumstance should, however, be prevented by the pre-shipment inspection made by our Unit personnel.

## Preparation for Shipment

Wastes must be packaged, labeled and marked by the generator according to the instructions given in the attached disposal analysis. The instructions must comply with State of Washington and DOT regulations. Please note that markings must be legible, durable, and in a color which contrasts with the container. Labels are available as store stock items.

## Inspection and Manifests

When the waste has been properly packaged, SWP&D Unit personnel will conduct a pre-shipment inspection to verify compliance with the packaging instructions. Properly completed Uniform Hazardous Waste Manifest(s) will be delivered and initialled by the SWP&D Unit representative upon satisfactory inspection. More than one manifest may be required, depending on shipping destinations and waste compatibility.

## Shipping, Radiological Release and Manifest

Arranging transportation is a generator responsibility. Transportation arrangements can be made by contacting Mr. A. D. Poor on 376-1420. Please note that shipments of non-radioactive hazardous waste will not be accepted without documentation of an unconditional radiological release or documentation of exemption from unconditional survey.

000263



Rockwell  
International

L. Guerra  
Page 2  
November 5, 1985

When the transporter arrives to pick up the waste, the generator must sign the manifest, obtain the transporter's signature and retain the tissue "generator copy." The original and remaining copies must accompany the shipment. When the shipment is complete, SWP&D Unit personnel will return the original copy of the manifest to the generator. Generators must keep the original, signed copy of the manifest in an auditable file.

#### Audit of Activities

All waste designations, packaging, shipping, and administrative activities (and documentation) are subject to audit by authorized Washington Department of Ecology (WDOE), U. S. Department of Energy (DOE), and contractor personnel. The activities related to disposal of the referenced waste(s) must adhere to requirements in every detail. Generators who fail to adhere to requirements will have their disposal privileges revoked by WDOE and may suffer penalties as defined in governing regulations.

Please contact Mrs. J. A. Reddick on 3-4733 for any further assistance in implementing chemical waste disposal.

*D. R. Groth*

D. R. Groth, Manager  
Solid Waste Processing and Disposal Unit

DRG:JAR:kh

Att.

cc: J. E. Chulos  
S. H. Norton  
D. E. Phelps  
A. D. Poor  
J. A. Reddick  
M. R. Romsos

cc: (w/o Att) W. F. Heine  
D. W. Lindsey  
G. G. Meade  
L. L. Powers

000264

DISPOSAL ANALYSIS NO. RHO-19-31

Central Landfill Trash Trench

Items listed for Trash Trench Disposal must be properly packaged, labeled, and manifested for disposal at the Hanford Central Landfill.

The waste generator must comply with the following requirements for packaging, labeling, and marking wastes for onsite disposal:

- The containers must all be triple rinsed. Each rinsing must use a volume of water at least equal to 10 percent of the capacity of the container or inner liner.
- The rinsates must be used in the same manner as the original contents to kill weeds.
- All hazardous material labels must be removed from the containers, or the containers must be covered during transport so that the labels are not visible.
- The empty containers must have an Unconditional Radiological Release or exemption from unconditional survey prior to shipment. The sticker should be attached to the Hazardous Waste Manifest No. RHO-19-31 - TRASH.

Central Landfill Chemical Trench

Items listed for disposal in the Chemical Trench must be prepared as follows:

- Packaging
  - The plastic bag of 2,4D-contaminated waste must be in a DOT 17H drum. Any void space in the drum should be filled with absorbent material. The drum should be full when closed.
- Labeling
  - The drum must bear a properly completed EPA hazardous waste sticker. An approved sticker is enclosed for your use.
- Marking
  - The drum must be marked with the DOT proper shipping name and identification number, as given in the attached table.
  - The drum must be marked "ORM-A" immediately below the proper shipping name and contained within a rectangle measuring at least 1/4 inch larger on all sides than the lettering area.

000265

911211217

Marking (continued)

- The drum must be marked with the manifest number and an unique container number (e.g., RHO-19-31-1).
- The drum must be marked with the weight, if over 110 pounds.

Items Requiring Additional Information

Items listed below, contained within the reference waste disposal request, cannot be processed at this time due to lack of information. A new, partially completed request form with the assigned number, RHO-20-03, is enclosed. Please sign and return this form.

The "Krovar" and "Nalcotrol" containers cannot be designated due to a lack of composition and physical property data. Material Safety Data Sheets for these items have been requested from HEHF. Request No. RHO-20-03 will be processed following receipt of these data sheets.

9112137098

DISPOSAL ANALYSIS NO. RHO-19-31

ITEM NO.	DOT HAZARD CLASS	DOT SHIPPING NAME	WDOE NO.	USDOT ID NO.	DOT/EPA LABEL	CONTAINERS		QUANTITY PER CONTAINER
						QUANTITY	TYPE	
<u>CENTRAL LANDFILL TRASH TRENCH - MANIFEST RHO-19-31 - TRASH</u>								
1	None	Triple Rinsed "Banvel" Containers	None	None	None	6	2.5 Gal Plastic	0
2	None	Triple Rinsed "Fenamine" Containers	None	None	None	28	2.5 Gal Plastic	0
3	None	Triple Rinsed 2,4-D Containers	None	None	None	8	5 Gal Metal Can	0
4	None	Triple Rinsed "Roundup" Containers	None	None	None	4	1 Gal Plastic	0

000267

DISPOSAL ANALYSIS NO. RHO-19-31

ITEM NO.	DOT HAZARD CLASS	DOT SHIPPING NAME	WDOE NO.	USDOT ID NO.	DOT/EPA LABEL	CONTAINERS		QUANTITY PER CONTAINER
						QUANTITY	TYPE	
<u>CENTRAL LANDFILL CHEMICAL TRENCH - MANIFEST RHO-19-31</u>								
1	ORM-A	2,4 Dichloro-phenoxy Acetic Acid (<1%)	D016	NA2765	EPA Hazardous Waste	1	55 Gal Drum	40 Lb of Solid Waste of <1% 2,4-D

S-111

892000

9 1 2 1 2 7 0 3 1

Complete unshaded parts and forward to: St U 2750c/A105/200E Rockwell	<b>TITLE</b> Rockwell Hanford Operations <b>CHEMICAL WASTE DISPOSAL REQUEST</b>	Logbook No. _____ Manifest(s) cross-reference <b>RHO-19-31</b>	
Requested by <b>L. GUERRA</b>	Telephone Number <b>3-2351</b>	Address <b>200-W 2713-W</b>	Company <b>RHO</b>
Signature <u>Luz Guerra</u> Date <u>10-14-85</u>		Radiation Monitoring Release Survey Card Number (If Applicable) _____	

received 10-21

**WASTE DESCRIPTION (For additional items, continue on the back of this form)**

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	None	MT	
1.	6	2 1/2 gal.	0	plastic	Triple Rinsed Banjel containers		0	NA	None	NA	T, R.	
2.	28	2 1/2 gal.	0	plastic	Triple Rinsed Feminine containers		0	NA	None	NA	T, R.	
3.	8	5 gal.	0	Metal Can	Triple Rinsed 2-4-D containers		0	NA	None	NA	T, R.	
4.	4	1 gal.	0	Plastic	Triple Rinsed Roundup containers		0	NA	None	NA	T, R.	
* 5.	20	Boxes	0	5lb. Paper bags	KROVART	Need MSDS - Physical Properties	0	NA	None	NA		
* 6.	80 33	1 qt.	0	Plastic	NALCO-TROL Drift Retardant (2 pr. Coveralls)	Need MSDS - Composition	0	NA	None	NA		
7.	1	5.00? Bag 30#	740lb	Plastic	Miscellaneous Material	2-4 D Diluted, etc Contaminated	0	NA	None	NA		

**INSTRUCTIONS**

- COLUMN A - ITEM NUMBER** - Item number
- COLUMN B - NUMBER OF CONTAINERS** - N to be disposed.
- COLUMN C - CONTAINER SIZE** - Size of container sizes, specify number and size of each unique waste to be disposed.
- COLUMN D - TOTAL WASTE QUANTITY** - of each unique waste to be disposed.
- COLUMN E - CONTAINER DESCRIPTION** - glass bottle.
- COLUMN F - WASTE DESCRIPTION** - Specify unique waste.
- COLUMN G - CHEMICAL COMPONENTS** - List the unique waste using specific chemical nomenclature, analytical data, or other documents to adequately

Items # 5 + 6 are not shaded  
% Contaminants?

He will try to get Nalco-Trol information.

- COLUMN H - WEIGHT (%)** - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.
- COLUMN I - PHYSICAL STATE** - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.
- COLUMN J - HAZARDS** - Indicate whether waste is Corrosive (C), Flammable (F), Oxide (O), Explosive (E), or a Poison (P) according to DOT regulations.
- COLUMN K - WASTE STATUS** - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).
- COLUMN L - CONTAINER STATUS** - Indicate whether container is: Full (F), Partially Full (PF), Empty (< 1 in) (MT), Triple Rinsed (TR).

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

RHO-20-7

DATE December 13, 1985

TO J. R. Payne  
 MO-922/200-E/3-2416

FROM J. A. Reddick  
 2750-E/A119/200-E  
 3-4733

**SUBJECT: DISPOSAL OF NON-HAZARDOUS SOLID WASTE**

The waste listed on the attached disposal request and described below are not hazardous and therefore may be shipped to the Central Landfill Trash Trench:

1. Seven yellow 55-gallon drums containing waste paper, sand, grout or plastic. Lids on these drums should be securely in place for transport.
2. Four 55-gallon EMPTY, Unused Drums. These drums are in poor condition so that the lids will not fit on them. They do not require lids as they do not contain any hazardous material.
3. Nineteen black 30-gallon drums containing waste paper, sand, grout, bentonite clay, paper or plastic. These drums should have lids securely in place for transport.
4. One old 55-gallon drum containing shredded paper/cloth. This drum should have a lid securely in place for transport.
5. Twenty-two 55-gallon EMPTY drums. These drums are in poor condition so that the lids will not fit on them. They do not require lids as they did not contain any hazardous material.

All waste must have an unconditional radiological release or exemption from unconditional survey prior to transport. No manifest is required for these drums. Transportation may be arranged by calling Mr. A. D. Poor on 6-1420.

JAR:bjb

Att.

- cc: D. R. Groth *PRM*  
 D. W. Lindsey  
 D. E. Phelps  
 A. D. Poor

9112110972

9 1 1 2 1 0 0 2 7 3  
Rockwell Hanfo Operations

CHEMICAL WASTE DISPOSAL REQUEST

Complete unsh- parts and forward  
to: SW. JU  
2750c/A105/200E  
Rockwell

Logbook No.

Manifest(s) cross-reference

RHO-20-7

Requested by **J. R. Payne** Telephone Number **3-2416** Address **MO-922** Company **RHO**

Signature *J.R. Payne* Date *11-11-85*

Radiation Monitoring Release Survey  
Card Number (If Applicable)

WASTE DESCRIPTION (For additional items, continue on the back of this form)

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	Disposition and Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	
Example 3	23	55 gal	0	Steel Drum	Empty Oil Drums	Oil PCB	100.0 1 ppm	L	None	None	MT	
1	7	55GAL		DRUM	non-regulated waste: grout, plastic	paper, sand	-	S	NONE	U	F,PF	
2	4	55Gal		DRUM	EMPTY-UNUSED		-	S	NONE	N	MT	POOR CONDITION
3	19	30GAL		DRUM	non-regulated waste: grout, plastic, bentonite clay	paper, sand	-	S	NONE	U	F,PF	
4	1	55GAL		DRUM	non-regulated waste: cloth	shredded paper,	-	S	NONE	U	PF	
5	22	55GAL		DRUM	EMPTY - contained no	chemical wastes	-	S	NONE	U	MT	POOR CONDITION
Item # 3 sent to B plant, not trash trench. Phone conversation J.R. Payne, + M.B. Walmsley. Dec. 18, 1985.												

INSTRUCTIONS

COLUMN A - ITEM NUMBER - Item number for each unique waste.

COLUMN B - NUMBER OF CONTAINERS - Number of containers of a unique waste to be disposed.

COLUMN C - CONTAINER SIZE - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.

COLUMN D - TOTAL WASTE QUANTITY - Total waste quantity (in kilograms only) of each unique waste to be disposed.

COLUMN E - CONTAINER DESCRIPTION - Specify container type e.g. steel drum, glass bottle.

COLUMN F - WASTE DESCRIPTION - Specify trade name or general description of each unique waste.

COLUMN G - CHEMICAL COMPONENTS - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets, analytical data, or other documents to adequately describe the composition of the waste.

COLUMN H - WEIGHT (%) - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.

COLUMN I - PHYSICAL STATE - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.

COLUMN J - HAZARDS - Indicate whether waste is Corrosive (C), Flammable (F), Oxidizing (O), Explosive (E), or a Poison (P) according to DOT regulations.

COLUMN K - WASTE STATUS - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).

COLUMN L - CONTAINER STATUS - Indicate whether container is: Full (F), Partially Full (PF), Empty (1 in) (MT), Triple Rinsed (TR).

DONT SAY IT --- Write It!

DATE 11-6-85

TO J. R. Payne

FROM J. A. Reddick

2750E/A119/200E

Please check this- make sure its accurate & sign & return to me, then I can start the paperwork rolling  
Thanks!

Julie

Looks Good

TO MAKE LIFE LAST, PUT SAFETY FIRST

91121170274

- 11 yellow 55gal 17H

7

HAVE WASTE

- Paper  
SAND

→ 19 BL. WHITE PAPER

17H

30 gal

- SAND GROUT Paper Plastic  
Non Chemical

→ 23

Old 55gal Drum

#20 has PAPER TRASH / CLOTH

J. R. Payne

3-2416

Eng Tech

MO-922

• RIE DURZAK

200E

911210025

000273

# Internal Letter



Rockwell International

Date: April 23, 1985

No: 65455-85-050

TO: (Name, Organization, Internal Address)  
Harlan C. Boynton  
Process Engineering  
2750E/A104/200 East

FROM: (Name, Organization, Internal Address, Phone)  
Dave Shepard  
Chemical Engineering Laboratory  
MO-922/200 East  
3-2416

Subject: Disposal of Non-Hazardous Drums

At the completion of an engineering project I am required to dispose of approximately 50 drums. Thirty of these are empty. The remaining 20 have various shredded materials in them. Paper, sawdust, plexiglass, aluminum, rubber, glass, PVC, wire, polyethylene, carbon steel, and laundry are each separated into drums. None of the contents of the drums are in any way hazardous.

I would like to arrange to have the 20 drums emptied into the non-hazardous non-radioactive landfill and the 20 drums made available to the contract handler of used drums. The 30 empty drums can be directly transferred to the drum contractor.

Funds for moving the drums are available under the project code Y1E1B. Tracking of the drums will be required by your office to allow disposal and or transfer to the on site drum disposal contractor. Please make arrangements for visually examining the contents of these drums to assure proper disposal methods are being used.

Please contact me with the approval required to set up transportation arrangements for these drums.

Dave Shepard  
Senior Engineering Technician

Dog GAWA

DGS/ma1

cc: W. R. Dworzak WRO  
A. J. Naser  
J. P. Slughter  
M. A. Christie  
R. S. McBeath

000274

AL NASER

54 Drums

55 gal

23 Empty, Poor Condition

12 PAINTED OUT New TRU GCond 10 MT

2: 1 Shredded paper, 1 HEPA TRASH  
ground rust

35 GAL

(19)

ALL FULL of New HAZ TRASH

LEAD?

911217027

000275

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

DATE 16 September 1986

TO MK Hamilton/HEHF

FROM DL Hagel/Hazardous Waste Unit

Re: Disposal request HEHF-22-288

The 437 small containers of waste oil samples are not considered hazardous waste according to WAC 173-303. However, in order for this waste to be landfilled, the oil must be removed from individual containers, absorbed on kitty litter and placed in a strong tight container for disposal. (approx. 40 Kg of oil)

NO MANIFEST IS REQUIRED FOR THIS SHIPMENT.

CC: DR Groth *[Signature]*

✦ "TO MAKE LIFE LAST, PUT SAFETY FIRST" ✦

000276

9112170378

9 1 1 2 1 7 7 0 7 7 9

Complete unshipped parts and forward to: SWradUU 2760E/A106/200E Rockwell	Rockwell Hanford Operations <b>CHEMICAL WASTE DISPOSAL REQUEST</b>			Logbook No. Manifest(s) description HEHF-22-538
Requested by <i>MA Hamilton</i>	Telephone Number <i>6-6980</i>	Address <i>7478 Hwy / 700A Ave</i>	Company <i>HEHF</i>	
Signature <i>MA Hamilton</i> Date <i>8-13-86</i>		Radiation Monitoring Release Survey Card Number (If Applicable)		

## WASTE DESCRIPTION (For additional items, continue on the back of this form)

A Item No.	B No. of Containers	C Container Size	D Total Waste Quantity (kg)	E Container Description	F Waste Description	G Chemical Components	H Weight %	I Physical State	J Hazards	K Waste Status	L Container Status	M Accumulation Date
Example 1	1	55 gal	45	Steel Drum	10% TURCO 4521 Solution	Oxalic Acid Ammonium Oxalate Water	1.5 8.5 90.0	L	P	U	F	2-27-86
Example 2	1	5 gal	34	Metal Can	Waste from Hg Cleanup	Mercury Rags Soil	1.3 4.0 94.7	S	P	S	PF	2-24-86
Example 3	23	55 gal	0	Steel Drum	Empty Conoco 32 Oil Drums	Oil PCB	100.0 < 1 ppm	L	None	U	MT	2-24-86
1	2	55gal.	40kg.	steel Drum	lab samples of oil received for PCB analysis	PCB flashpoint abt 760°C	110	L	None	U	F	8-1-86
					Drum #1 = 283 Drum #2 = 154 (437 total)	samples in plastic & glass = 21kg samples in plastic & glass = 19kg						Both overpacked with swelling caps.

## INSTRUCTIONS

**COLUMN A - ITEM NUMBER** - Item number for each unique waste.

**COLUMN B - NUMBER OF CONTAINERS** - Number of containers of a unique waste to be disposed.

**COLUMN C - CONTAINER SIZE** - Size of containers specified in Column B. If multiple container sizes, specify number and size of each.

**COLUMN D - TOTAL WASTE QUANTITY** - Total waste quantity (in kilograms only) of each unique waste to be disposed.

**COLUMN E - CONTAINER DESCRIPTION** - Specify container type e.g. steel drum, glass bottle.

**COLUMN F - WASTE DESCRIPTION** - Specify trade name or general description of each unique waste.

**COLUMN G - CHEMICAL COMPONENTS** - List all organic and inorganic components of the unique waste using specific chemical names. Attach Material Safety Data Sheets,

**COLUMN H - WEIGHT (%)** - For each waste component indicate percent or range of percents in which the component is present in the waste. Trace amounts of metals, cyanide, sulfide, PCB's, and phenolics should be specified. Components must add up to 100% including water, earth, or other components. If a unit other than percent is used, indicate the unit. When possible, provide test results or other documentation to verify percentages.

**COLUMN I - PHYSICAL STATE** - Indicate whether Solid (S), Liquid (L), or Gas (G) or any combination of these phases.

**COLUMN J - HAZARDS** - Indicate whether waste is Corrosive (C), Flammable (F), Oxidizer, (O), Explosive (E), or a Poison (P) according to DOT regulations.

**COLUMN K - WASTE STATUS** - Indicate whether waste is: Reacted (Rx), Treated (T), New (unused) (N), Used (U), Old (expired) (O), Spill Material (S).

**COLUMN L - CONTAINER STATUS** - Indicate whether container is: Full (F), Partially Full (PF), Empty (< 6 in. in 55 Gal Drums) (MT), Triple Rinsed (TR).

**COLUMN M - ACCUMULATION DATE** - Indicate the date marked on each container; the day each waste was first generated.

DATE 8-11-86

WDOE WASTE DESIGNATION

ITEM/COMPOSITION

Waste oil samples

PCB < 10 ppm

phase l

density \_\_\_\_\_

1. DISCARDED CHEMICAL PRODUCT? No

2. DANGEROUS WASTE SOURCE? No

3. DANGEROUS WASTE MIXTURE?

● TOXICITY? \_\_\_\_\_

not toxic

● PERSISTENCE? No

● CARCINOGENIC? No

4. CHARACTERISTIC DANGEROUS WASTE?

● IGNITABLE? Sp > 140°F

● CORROSIVE? No

● REACTIVE? No

● EP TOXIC? No

DETERMINATION: WASTE CLASS: Duo

WASTE NUMBERS: \_\_\_\_\_

USDOT PROPER SHIPPING NAME: Waste oil

NOS

N-R

HAZARD CLASS: Combustible liquid

ID #: NA 1270

LABELS: -

PACKAGE REFERENCE: 173-118 c

NOTES: \_\_\_\_\_

2-55 gal Drm  
Samples

with small quantities oil  
(40 kg total)

000278

91121970270