

START

PREPARE WASTE CONTAINERS FOR OFFSITE SHIPPING
616 STORAGE FACILITY

I. SYSTEM DESCRIPTION

This procedure provides instruction for preparing waste containers at the Nonradioactive Dangerous Waste Storage Facility (NRDWSF - 616) for shipping offsite. The 616 Facility receives dangerous waste from all Hanford contractors for interim storage between generation and off-site disposal. The dangerous waste is prepared for off-site shipping and shipped to the 616 Facility, where it is segregated into compatible hazard classes and stored until it is shipped off-site.

REFERENCE DOCUMENTS

Washington Administrative Code 173-303, "Dangerous Waste Regulation".

Operating Specification Document SW-153-00004, Operating Specifications for the Nonradioactive Dangerous Waste Storage Facility (NRDWSF - 616).

II. PRESTART CONDITION

Inform Solid Waste Operations supervision of all work performed at the 616 Facility except when doing:

- outside housekeeping
- office (clerical) work
- work in the Packaging Material and Handling Equipment area
- daily inspection of the facility.

The daily inspection has been performed per SW-100-124.

IV. SAFETY

If chemical exposure is suspected, evacuate immediate area, contact supervision, and report to First Aid Station.

Symptoms of chemical exposure may include the following:

- burning eyes
- skin or nose irritation
- nausea
- dizziness
- headache.



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V. SAFETY (Cont.)

If waste chemicals contact the skin or eyes, perform the following:

- flush eyes or skin with water for 15 minutes
- remove any chemically contaminated clothing
- report to the First Aid Station as soon as possible thereafter

Warning - When handling hazardous waste containers, wear as a minimum:

- Safety glasses
- Leather or Chemical-resistant gloves
- Tyvek Suits or equivalent
- Approved safety shoes.

Wear a face shield and splash-resistant goggles when handling containers of questionable integrity containing bulk liquids.

When handling unused new containers, wear:

- Safety glasses or goggles
- Leather gloves
- Approved safety shoes.

Generator and Data Services (GADS) and Industrial Safety and Fire Protection (IS&FP) group will provide Operations with specific instructions in the use of protective clothing/equipment, hazards involved, proper spill cleanup procedures, and/or other recovery operations.

Before conducting operations in the 616 Facility, make sure all eyewashes and safety showers are working. Ensure that equipment has been tested per WHC-CM-4-3, Industrial Safety Manual, Vol. 1, Standard G-6 and G-11, and that pathways to the safety showers and eyewashes are clear of obstructions.

Before moving a container within the facility, make a visual inspection of the immediate area to ensure the area is clear of obstacles and the trench gratings are in place. Failure to remove obstacles or replace gratings could result in dropping a waste container and causing personal injury and/or a spill.

Caution - Store all containers in designated areas according to the Special Handling Instructions of the Hazardous Waste Manifest or the Disposal Analysis Letter (see Storage Plan Diagram). Incompatible chemicals stored next to each other can cause serious chemical reactions if they mix during a spill.

Do not transmit from portable radios or use other devices (e.g., cigarettes, lighters, etc.) which could cause sparks inside the flammable storage cells. Use nonsparking tools to minimize fire hazard.

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V. SAFETY (Cont.)

The electric forklift is prohibited from operating in the class 1A flammable liquid storage cell.

Management Information - Ensure transporter is wearing a similar level of protection to the following:

- Safety glasses
- Leather or Chemical-resistant gloves
- Tyvek Suits or equivalent
- Approved safety shoes.

For leaking containers, supervision shall determine whether to contact the Hanford Fire Department Hazardous Material Response Team (HAZMAT) for assistance with spill containment and stabilization. For small leaks and other minor container abnormalities, supervision will specify and coordinate necessary corrective actions.

Applicable Safety Documents - All activities conducted at the 616 Facility must be in compliance with WHC-CM-4-3, Industrial Safety Manual, Vols. 1-3.

A working knowledge of the following documents is required by all operators working at the 616 Facility:

- WHC-CM-4-3, Volumes 1-3
 - Guide FP-13, Flammable and Combustible Liquids
 - Guide M-5, Powered Industrial Trucks
 - Guide HC-1, Hazardous Materials
 - Standard C-7, Chemical Storage
 - Program G-1, Energy Control Program (Lackout/Tagout)
- The Chemical Waste Disposal Analysis Letter, issued by GADS, for chemical wastes received for storage at the 616 Facility
- MATERIAL SAFETY DATA SHEETS
- WHC-CM-5-7, Solid Waste Management, Section 3.9, Equipment Lock and Tag.
- SW-001-320, RESPOND TO EMERGENCIES - 616 STORAGE FACILITY

V. TOOLS AND SUPPLIES

Forklift Attachments for Lifting Drums
Drum Dolly, Hand Truck and/or Powered Fork Truck
Protective Clothing and Equipment
Absorbent Material (Kitty Litter, Safe Step)
Overpack Drums
Nonsparking Tools
Portable Eyewash and Safety Shower Station
Written instructions from GADS for package preparation
Chemical Waste Disposal Analysis Letter pertaining to waste being shipped
SW-001-320, RESPOND TO EMERGENCIES AT 616 STORAGE FACILITY

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VII. PROCEDURE

NOTE - *Administrative hold steps are identified by acronyms in parenthesis at the left margin of the procedure step. The direction given in the procedure step must be satisfied before work continues.*

(S) - *The SWO supervisor or manager shall approve continued operation*

(H) - *Health Physics shall complete surveys or agree to permit continued operation.*

A. PREPARE WASTE CONTAINER(S) FOR SHIPPING

NOTE - *A representative from Generator and Data Services (GADS) will select which containers are to be prepared for offsite shipping and will provide 616 Facility manager with written instructions for preparing the containers.*

- [1] **REQUEST** supervision to provide a copy of the written instructions for preparing containers for shipping.

WARNING

WEAR SAFETY GLASSES, FACE SHIELD, CHEMICAL-RESISTANT GLOVES, APPROVED SAFETY SHOES AND TYVEK SUIT OR EQUIVALENT WHEN APPROPRIATE.

BEFORE MOVING ANY CONTAINERS, ENSURE THAT AISLE IS CLEAR OF ALL OBSTRUCTIONS AND ALL TRENCH GRATINGS ARE IN PLACE.

- (S) [2] **IF** container(s) integrity is questionable, **NOTIFY** supervision for instructions.

NOTE - *Preparation of labels in Step 3-5 shall be completed per supervision's instructions.*

- [3] **COMPLETE** the HAZARDOUS WASTE label (see sample) as specified for each container, using an indelible marking pen.

- [4] **IF** original HAZARDOUS WASTE label is damaged or illegible, **REMOVE**

AND

ATTACH a completed new HAZARDOUS WASTE label to corresponding container.

- [5] **CHECK** condition (faded, torn, etc.) of HAZARD CLASS label (see Figure 2)

AND

REPLACE as needed.

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A. PREPARE WASTE CONTAINER(S) FOR SHIPPING (Cont.)

CAUTION

DO NOT PUT CONTAINERS OF INCOMPATIBLE WASTE ON THE SAME PALLET.

[6] **MOVE** container(s) onto pallets in the aisle.

NOTE - WHC Traffic Department, Generator and Data Services and Operations will each have a representative inspect the prepared containers and MANIFEST for any deficiencies.

- Final inspection will be performed before loading the transportation vehicle.

[7] **IF** needed, **CORRECT** prepared container(s) deficiencies per specific verbal instructions by supervision.

[8] **ENSURE** that the loading dock trench drain is plugged and gratings are in place.

NOTE - The truck must be positioned so that loading occurs over the containment area of the loading dock.

[9] **REQUEST** truck driver to perform the following:

- Turn off truck engine
- Put on truck emergency brake
- Chock truck wheels
- Load prepared containers onto truck
- Take copy of MANIFEST.

NOTE - The GADS representative shall inspect the truck prior to loading. The inspection will ensure that there is:

- *No evidence of spill residues*
- *A proper emergency spill contingency kit is in place.*

- The GADS representative will be present during the loading of containers to perform spot inspections and designate the loading order.

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B. UPDATE INVENTORY

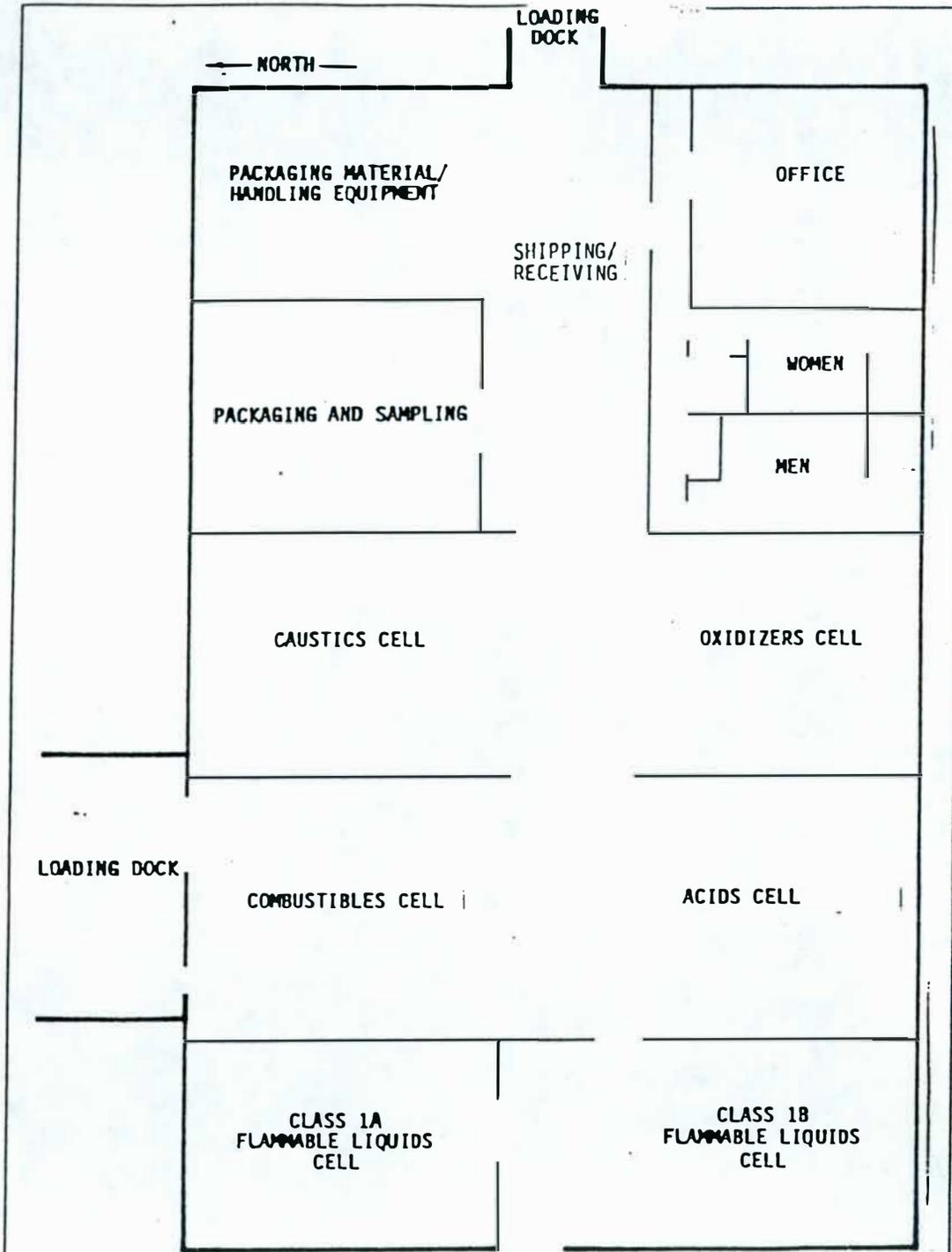
- [1] **UPDATE** the Waste Package Location Chart (Figure 3) and inventory sheet to reflect the container(s) removed from storage.
- [2] **REFILE** internal MANIFEST forms with corresponding disposal analyses in a way that emphasizes corresponding containers have been shipped offsite.
- [3] **WRITE** the offsite MANIFEST number, page and item number, and shipping date on the line item(s) shipped to indicate their removal from the storage inventory.
- [4] **AFTER** the facility waste inventory has been updated to reflect changes made (i.e., drums moved, containers added, etc.), **OBTAIN** current inventory listing.
- [5] **ENSURE** accuracy of container location/placement, hazard class, proper shipping name, DOT I.D. number and waste codes.

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FIGURE 1 - STORAGE PLAN DIAGRAM



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HAZARDOUS WASTE LABEL

PAGE AND ITEM NUMBER
FROM MANIFEST

MANIFEST NUMBER

PAGE 1, ITEM A WPC-24-527

HAZARDOUS WASTE

STATE AND FEDERAL LAW
PROHIBITS IMPROPER DISPOSAL

IF FOUND, CONTACT THE NEAREST POLICE, OR
PUBLIC SAFETY AUTHORITY, AND THE
WASHINGTON STATE DEPARTMENT OF ECOLOGY,
OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY

PROPER D.O.T.
SHIP NAME WASTE ACID LIQUID, A.I.D.S. UN NA 1760

GENERATOR INFORMATION:
NAME U.S. DEPARTMENT OF ENERGY
ADDRESS P.O. BOX 550, 2401 STEVENS DR.
CITY RICHLAND STATE WA ZIP 99352

EPA ID NO. WA7890008987 EPA WASTE NO. D292, WTCZ
ACCUMULATION START DATE 9-22-86 MANIFEST DOCUMENT NO. _____

HANDLE WITH CARE!

CONTAINS HAZARDOUS OR TOXIC WASTES

STYLE WMSPEC-P

RED BORDER
AND LETTERING

YELLOW
BACKGROUND

BLACK
LETTERING

RED
LETTERING

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FIGURE 2 - HAZARD CLASS LABELS



CORROSIVE LABEL
4" x 4"
TOP-BLACK ON WHITE
BOTTOM-WHITE ON BLACK



OXIDIZER LABEL
4" x 4"
BLACK ON YELLOW



IRRITANT LABEL
4" x 4"
RED ON WHITE



POISON LABEL
4" x 4"
BLACK ON WHITE



DANGEROUS WHEN WET
4" x 4"
WHITE ON BLUE



FLAMMABLE LIQUID
4" x 4"
WHITE ON RED



FLAMMABLE SOLID
4" x 4"
BLACK ON RED AND
WHITE STRIPES

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SOLID WASTE PLANT OPERATING PROCEDURE

UNIFORM HAZARDOUS WASTE MANIFEST

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

Form Approved, OMB No. 2050-0026, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address				A. State Manifest Document Number	
4. Generator's Phone ()				B. State Generator's ID	
5. Transporter 1 Company Name		6. US EPA ID Number		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 No. Type		13. Total Quantity	
				14. Unit Wt/Vol	
				15. Waste No.	
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information					
<p>16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the containers 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.</p> <p>If I am a large quantity generator, I 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 that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.</p>					
Printed/Typed Name			Signature		Month Day Year
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
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

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FIGURE 3 - WASTE PACKAGE LOCATION CHART



WASTE PACKAGE
LOCATION CHART



Nonradioactive Dangerous Waste Facility - 616 Bldg.



CELL:	DATE:	PAGE	OF			
Location:	Tier	Container No.	I.D. No.	Size & Type	Operator Initials	Date Rec' & Comments
1						
2						
3						
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9						
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ORIGINAL FORM IS 8 1/2 by 14



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