

START

0029975

RESPOND TO EMERGENCIES - 616 STORAGE FACILITY

9413199.1090

I. SYSTEM DESCRIPTION

This procedure provides instruction for the proper response to emergencies and non-routine conditions encountered at the Nonradioactive Dangerous Waste Storage Facility (NRDWSF - 616).

Hazardous waste from Hanford Site waste generators is received and stored at the facility on an interim basis and is segregated into compatible hazard classes before final disposition offsite.

The main function of the NRDWSF - 616 Facility is to provide a safe area for hazardous waste storage. Facility design helps ensure both emergency preparedness and personnel/public protection, as well as provisions for administrative and record keeping functions required by state regulation.

II. REFERENCE DOCUMENTS

WHC-IP-0263-616, Solid Waste Operations 616 Building Emergency Plan.

III. PRESTART CONDITION

Inform Solid Waste Operations (SWO) supervision of all work performed at the NRDWSF - 616 Facility except when doing:

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

Supervision will provide corrective action required in the event unplanned water intrusion has occurred in the facility.

IV. SAFETY

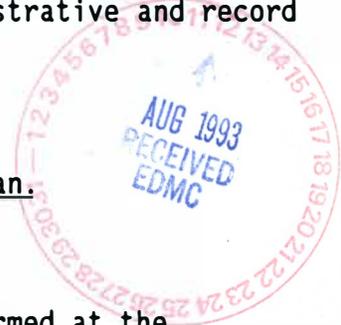
Warning - If chemical exposure is suspected, evacuate immediate area, contact supervision, and report to First Aid Station.

Symptoms of chemical exposure may include the following:

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



DO NOT REMOVE
EMERGENCY PROCEDURE



Release Date 10/09/92	Document No. SW-001-320	Rev/Mod B-3	Page 1 of 17
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SOLID WASTE PLANT OPERATING PROCEDURE

IV. SAFETY (Cont.)

Warning - 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.

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.

Before personnel can occupy the facility, the ventilation system must be in operation and the differential pressure between the office and storage cells must be less than zero. In the event of a spill, failure of the ventilation system could cause a build-up of toxic gases inside the facility.

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 NRDWSF - 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, Standards 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 the designated areas according to the Special Handling Instructions of the Hazardous Waste Manifest or the Disposal Analysis Letter (See Storage Plan Diagram, Figure 1, SW-100-122). Hazardous waste chemicals stored next to each other can cause serious chemical reactions if they mix during a spill.

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

Document No.	Rev/Mod	Page
SW-001-320	B-3	2

9413199.1091

SOLID WASTE PLANT OPERATING PROCEDURE

IV. SAFETY (Cont.)

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

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

Contact the HAZMAT Team in the event of a ruptured container.

Applicable Safety Documents - All activities conducted at the NRDWSF - 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 of all operators working at the NRDWSF - 616 Storage Facility:

- WHC-CM-4-3, Industrial Safety Manual, Vols. 1-3
 - Guide FP-13, "Flammable and Combustible Liquids"
 - Guide M-5, "Powered Industrial Trucks"
 - Guide HC-1, "Hazard Communication"
 - Standard C-7, "Chemical Storage and Handling"
 - Standard G-1, "Energy Control Program (Lockout/Tagout)"
- WHC-IP-0263-616, NRDWSF - 616 Building Emergency Plan
- The Hazardous Waste Disposal Analysis Letter, issued by GADS for chemical wastes received for storage at NRDWSF - 616 Facility
- MATERIAL SAFETY DATA SHEETS.

V. TOOLS AND SUPPLIES

Drum Lifting Device
Drum Dolly, Hand Truck, and/or Powered Fork Truck
Protective Clothing and Safety Equipment
Absorbent Material
Overpack Drums
Chemical Transfer Pumps
Nonsparking Tools
SW-100-121, RECEIVE NONRADIOACTIVE DANGEROUS WASTE - 616 STORAGE FACILITY
SW-100-123, DISPOSE OF FACILITY GENERATED WASTE - 616 STORAGE FACILITY

9413199.1092

SOLID WASTE PLANT OPERATING PROCEDURE

<u>VI. TABLE OF CONTENTS</u>	<u>PAGE</u>
A. RESPOND TO LEAKING/RUPTURED CONTAINER	5
Clean Up Spill - Leaking Container	5
Clean Up Spill - Ruptured Container	7
B. PERFORM OVERPACKING OF CONTAINERS	8
Perform Tip-Over Method for Overpacking	9
C. RESPOND TO FIRE OR POWER/VENTILATION LOSS	9
Respond to Fire	9
Respond to Power/Ventilation Loss	10
APPENDIX 1 - WASTE TRANSFER INSTRUCTIONS	11
APPENDIX 2 - INSTRUCTIONS FOR OVERPACKING A CONTAINER	13
APPENDIX 3 - INSTRUCTIONS FOR TIP-OVER METHOD FOR OVERPACKING A CONTAINER	15
HAZARDOUS WORK PERMIT	16
ASBESTOS WORK PERMIT	17

9413199.1093

SOLID WASTE PLANT OPERATING PROCEDURE

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. RESPOND TO LEAKING/RUPTURED CONTAINER

WARNING

IF LEAK OR SPILL IS SUSPECTED, EVACUATE STORAGE CELL AND NOTIFY SUPERVISION.

NOTE - *Leak in this context means a slow drip, or obvious moisture buildup.*

Clean Up Spill - Leaking Container

[1] IF leak is detected, EXIT storage cell immediately

AND

CLOSE door.

[2] IF overhead cell door is open, EVACUATE immediately without closing overhead door.

(S) [3] NOTIFY supervision and Building Emergency Director of leak and cell(s) which are affected, as required by NRDWSF - 616 Building Emergency Plan.

NOTE - *Supervision shall determine if the HAZMAT Team is needed based on input from SWE and/or IS&FP representatives.*

- *Supervision will consult IS&FP and GADS for use of proper protective equipment, tools, and cleanup method for the spill.*

- *If required by IS&FP, supervision will prepare a Hazardous Work Permit per WHC-CM-4-3, Standard A-7 (refer to sample Hazardous Work Permit).*

- *If the work involves friable asbestos, supervision will prepare an Asbestos Work Permit per WHC-CM-4-3, Standard A-7 (refer to sample Asbestos Work Permit).*

Document No.	Rev/Mod	Page
SW-001-320	B-3	5

9413199 1094
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SOLID WASTE PLANT OPERATING PROCEDURE

A. RESPOND TO LEAKING/RUPTURED CONTAINER (Cont.)

- *After a release of waste in the facility, supervision will document the following information in a "Spill Log" which is maintained at the facility:*
 - *Date and time of release*
 - *Type of waste released, Disposal Analysis Letter reference, and drum identification number*
 - *Amount of waste released to soil or containment systems*
 - *Exact location of release*
 - *Description of events causing release*
 - *Remedial actions taken*
 - *Date and time remedial actions completed.*

- [4] IF stabilized or repaired container is structurally sound, **TRANSFER** to Packaging and Sampling Room for overpacking. GO TO Task B.
- [5] IF the container is empty and previously contained waste designated as Acutely Hazardous Waste, **PERFORM** overpacking.
 - a. Carefully **MOVE** empty container to the Packaging and Sampling Room.
 - b. **COMPLETE** overpacking per IS&FP and GADS written instructions and Task B.

WARNING 1

FOR FLAMMABLE WASTES, CONNECT A GROUND WIRE TO METAL PART OF BUILDING THEN TO FLAMMABLE WASTE METAL CONTAINERS FROM WHICH AND INTO WHICH WASTE IS TO BE PUMPED. FAILURE TO GROUND THE CONTAINER COULD RESULT IN AN EXPLOSION CAUSING INJURY TO PERSONNEL. USE ONLY NONSPARKING TOOLS AND EQUIPMENT.

- NOTE* - *IS&FP must be notified before performing Step 5.*
- *Refer to Appendix 1 examples of waste transfers.*

WARNING 2

TRANSFER OF FLAMMABLE WASTE FROM ONE CONTAINER TO ANOTHER CONTAINER MUST BE PERFORMED IN THE 1A CELL. SEE APPENDIX 1, PAGE 11 FOR EXACT LOCATION OF FLAMMABLE WASTE TRANSFER.

SOLID WASTE PLANT OPERATING PROCEDURE

A. RESPOND TO LEAKING/RUPTURED CONTAINER (Cont.)

- [6] IF the structure of a container is severely damaged, **TRANSFER** waste from damaged container to a new container.
- IF pumping flammable waste, **ENSURE** ground wires are connected from metal building to waste containers, and the pump is explosion-proof or manual.
 - IF transferring solid waste, **ENSURE** protective clothing and equipment are in place, then transfer waste using appropriate tools.
 - PERFORM** Task B for overpacking of empty container.

Clean Up Spill - Ruptured Container

NOTE - A rupture is indicated by an obvious accumulation of waste surrounding a container, e.g., a small pool of liquid or continuous flow through a large opening.

- [7] IF a ruptured container is detected, **EVACUATE** storage cell immediately.
- [8] **NOTIFY** supervision of ruptured container

AND

SUPPLY the following information:

- Building and location
- Name and telephone number
- Chemical name of spill, if known
- Other related hazards, if known (e.g., item is corrosive, flammable, etc.)
- Amount of waste spilled.
- Container location in building (if known)
- Unique drum ID number (i.e., WHC-25-003-1)

- [9] **NOTIFY** IS&FP and GADS if not already notified by Hanford Fire Department (HFD) or supervision.

NOTE - When called, the HFD HAZMAT Team will contain and stabilize the spill.

- *Supervision will consult IS&FP and GADS for protective clothing required for spill cleanup.*
- *If required, supervision will prepare a Hazardous Work Permit per WHC-CM-4-3, Standard A-7.*

- [10] After spill is stabilized, **CLEAN** cell floor using absorbent material.

9413199-1096

(S)

SOLID WASTE PLANT OPERATING PROCEDURE

A. RESPOND TO LEAKING/RUPTURED CONTAINER (Cont.)

- [11] **TRANSFER** solid spill cleanup waste to a new unused container specified by SWE.
- [12] **EMPTY/CLEAN** cell trench and/or sump per SW-100-123.
- [13] **TRANSFER** empty container to Packaging and Sampling Room.
- [14] **COMPLETE** overpacking per IS&FP and GADS written instructions and Task B.

B. PERFORM OVERPACKING OF CONTAINERS

CAUTION

BEFORE OVERPACKING, ENSURE THAT ALL CUSHIONING AND ABSORBENT MATERIAL USED IN OVERPACK IS COMPATIBLE WITH WASTE IN THE CONTAINER PER SWE INSTRUCTIONS.

NOTE (1) - Corrosive liquid containers will require a plastic liner or polyethylene overpack to prevent corrosion of the overpack.

NOTE (2) - If container to be overpacked is empty, it can be put inside overpack by hand.

- Supervision may contact HAZMAT Team for assistance or place them on standby.

- [1] **OBTAIN** an approved Department of Transportation (DOT) overpack drum, or a drum of equivalent integrity.

NOTE - Sufficient absorbent material must be placed inside overpack drum to cushion movement of damaged container and absorb any liquid which may be present.

- Refer to Appendix 2 for additional instructions.

- [2] **PLACE** absorbent material on the inside bottom of drum.
- [3] Using appropriate tools and drum-lifting equipment, **PLACE** damaged container inside of drum.
- [4] **ADD** more absorbent material around the sides and on top of damaged container. (Ensure a sufficient amount of absorbent material is used to cushion inner drum movement and absorb any liquids present.)
- [5] **SECURE** lid on overpack drum. (Ensure all parts fit securely together.)

Document No.	Rev/Mod	Page
SW-001-320	B-3	8

9413199-1097

SOLID WASTE PLANT OPERATING PROCEDURE

B. PERFORM OVERPACKING OF CONTAINERS (Cont.)

[6] ENSURE overpack drum has the following information marked on it.

- Total gross weight of overpack (includes absorbent material inside)
- Waste's proper shipping name
- Identification number
- Hazard class
- HAZARDOUS Waste label (if required)
- Original accumulation date
- Original Manifest number
- Salvage drum.

NOTE - Information for drum is taken from the Uniform Hazardous Waste Manifest. Refer to SW-100-121 and SW-100-003.

[7] MAKE a note in Block #19, "Discrepancy" space, of the UHWM that the container has been placed into a salvage container.

Perform Tip-Over Method for Overpacking

NOTE - Refer to Appendix 3 for additional instructions.

[8] PLACE overpack drum over damaged drum.

[9] LAY overpack and damaged drum down using care.

[10] STAND overpack drum upright.

[11] FILL overpack with sufficient amount of absorbent material to absorb any liquids present and secure the damaged drum.

[12] SECURE lid on overpack drum. (Ensure all parts are secure, then go to Step 6 of Task B.)

C. RESPOND TO FIRE OR POWER/VENTILATION LOSS

Respond to Fire

[1] PULL nearest fire alarm box. IF fire alarm fails, WARN Facility personnel via building intercom system or evacuation siren.

[2] EVACUATE building. Follow procedures recommended in Building Emergency Plan.

[3] ASSEMBLE personnel in an area at least 100 feet away and upwind of the NRDWSF - 616 Storage Facility.

(H) [4] WAIT for fire personnel to complete actions and clear area before returning to Facility.

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SOLID WASTE PLANT OPERATING PROCEDURE

C. RESPOND TO FIRE OR POWER/VENTILATION LOSS (Cont.)

Respond to Power/Ventilation Loss

WARNING

IF POWER/VENTILATION LOSS HAS EXCEEDED 1 HOUR, DO NOT RE-ENTER THE FACILITY UNTIL THE ELECTRICAL/VENTILATION SYSTEM HAS BEEN RE-ESTABLISHED AND OPERATING FOR AT LEAST 30 MINUTES.

- (S)
- [5] IF power ventilation loss is a planned outage, **PERFORM** the following prior to outage:
- a. **INSPECT** all waste storage cells. IF any containers are leaking or ruptured, **NOTIFY** supervision (see Task A).
 - b. After inspecting containers, **CLOSE** all interior cell doors.
 - c. **OPEN** all exterior cell doors.
 - d. **EVACUATE** the storage area.
 - e. IF power/ventilation loss will be longer than 1 hr, **EVACUATE** the facility.
 - f. **MAINTAIN** surveillance of the facility to prevent unauthorized personnel entry.
- [6] IF power/ventilation loss is an emergency outage, **PERFORM** the following:
- (S)
- a. **NOTIFY** supervision.

NOTE - Supervision will call 811, if necessary.

- b. IF instructed by supervision, **CLOSE** all interior cell doors

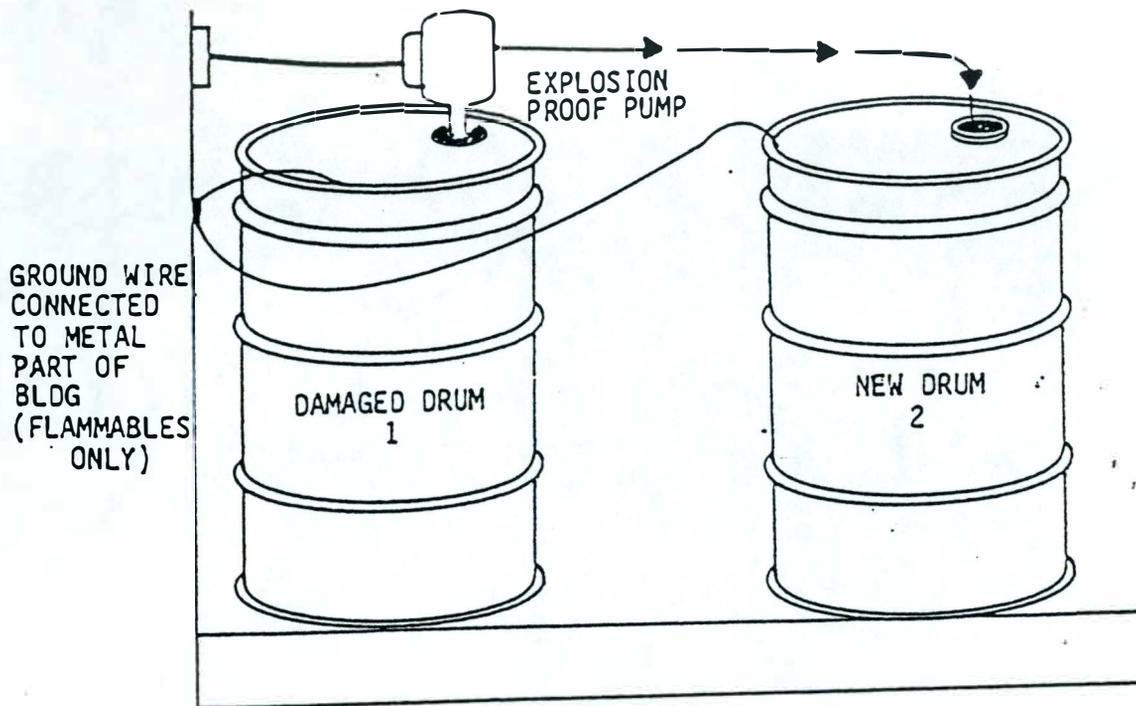
AND

- OPEN** all exterior cell doors.
- c. **EVACUATE** the facility.
- d. **MAINTAIN** surveillance of the facility to prevent unauthorized personnel entry.

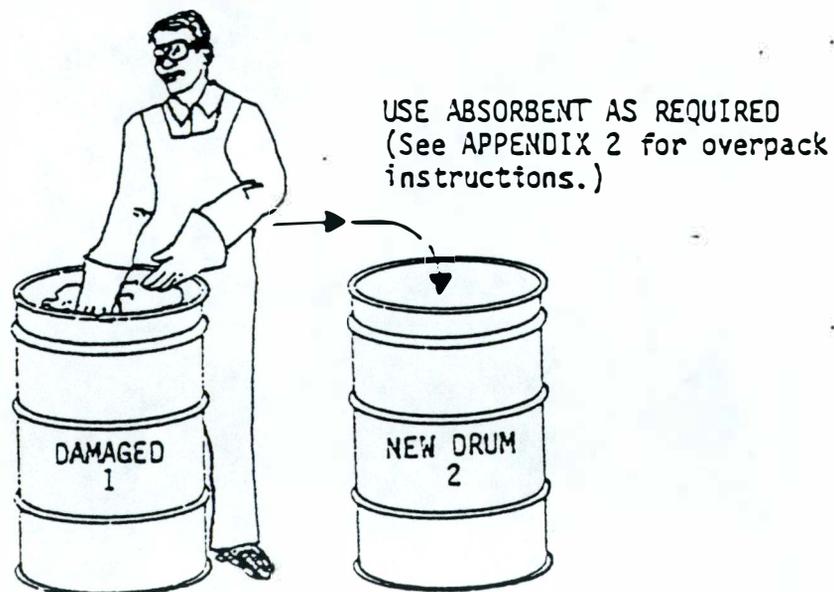
SOLID WASTE PLANT OPERATING PROCEDURE

APPENDIX 1 - WASTE TRANSFER INSTRUCTIONS

Page 1 of 2



EXAMPLE 1: LIQUID WASTE
Pump waste from the used or damaged container to a new container.



EXAMPLE 2: SOLID WASTE
With hands protected and other safety clothing in place, carefully relocate waste from damaged container to a new container.

Document No.

SW-001-320

Rev/Mod

B-3

Page

11

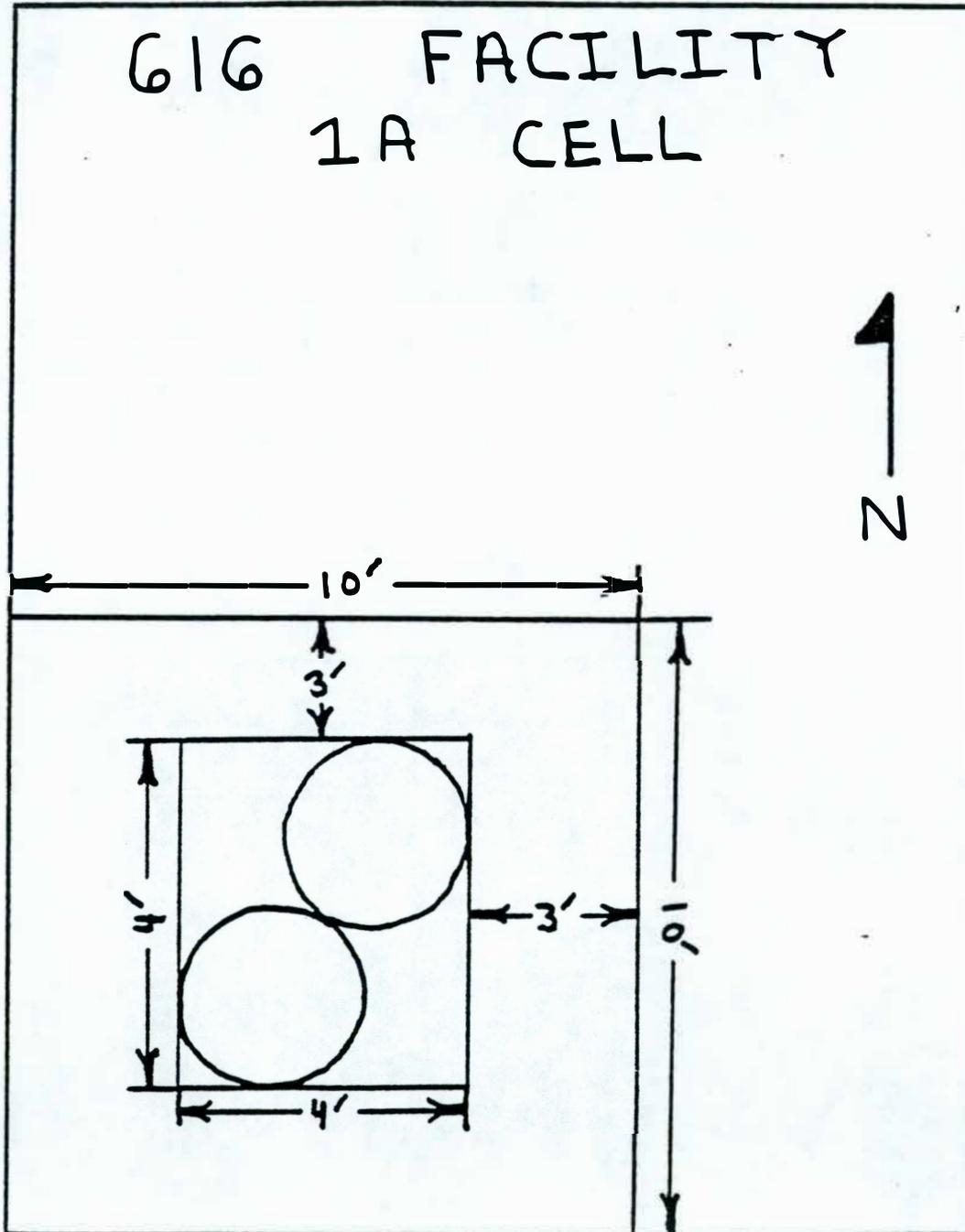
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SOLID WASTE PLANT OPERATING PROCEDURE

APPENDIX 1 - FLAMMABLE WASTE TRANSFER LOCATION

Page 2 of 2

9413199.1101



SOLID WASTE PLANT OPERATING PROCEDURE

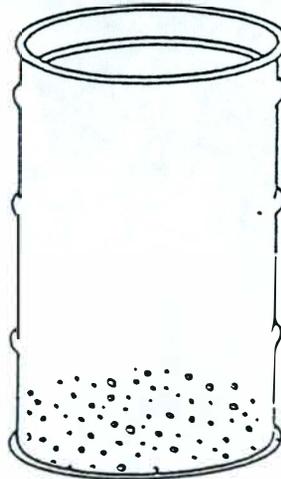
APPENDIX 2 - INSTRUCTIONS FOR OVERPACKING A CONTAINER

Page 1 of 2

NOTE: An approved container must be used (overpacks are usually 85 gallon or 110 gallon drum)
Sufficient absorbent must be placed inside overpack drum to cushion movement of damaged container, and absorb any liquid which may be present..

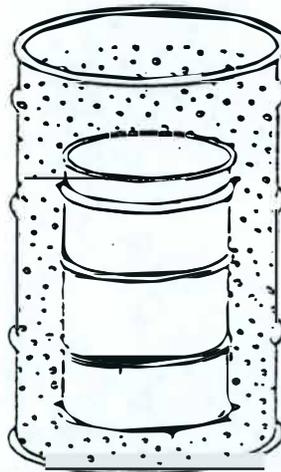
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ABSORBENT ON BOTTOM OF DRUM



OVERPACK 85 gal

DAMAGED DRUM 55 gal



DAMAGED CONTAINER INSIDE
OVERPACK WITH MORE ABSORBENT
ADDED TO
-SIDES
-TOP
OR WHERE REQUIRED TO CUSHION
INNER DRUM MOVEMENT

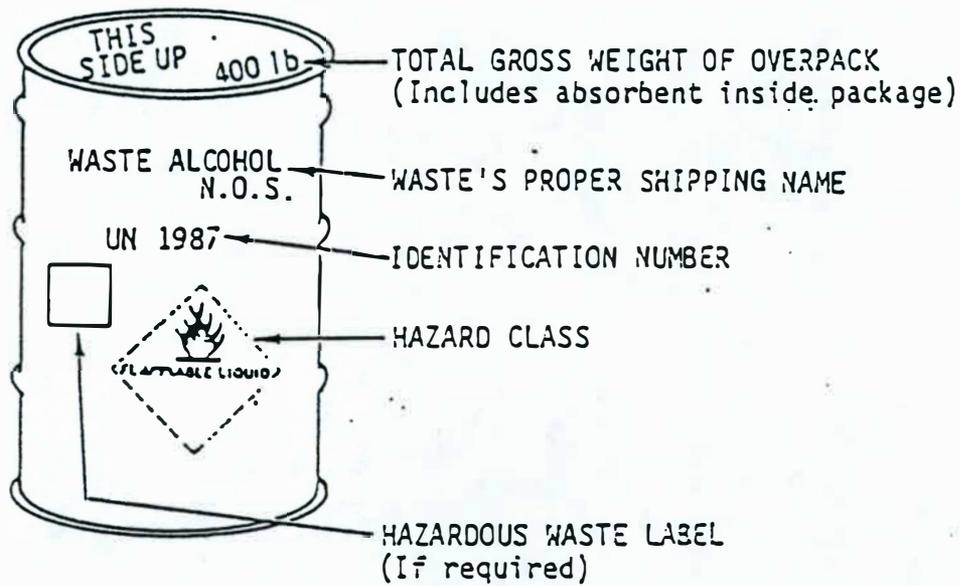


LID ASSEMBLY

SOLID WASTE PLANT OPERATING PROCEDURE

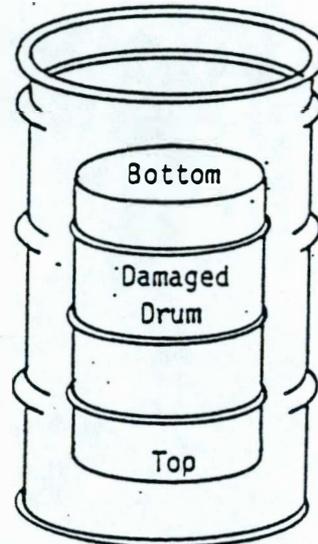
APPENDIX 2 - INSTRUCTIONS FOR OVERPACKING A CONTAINER

Page 2 of 2



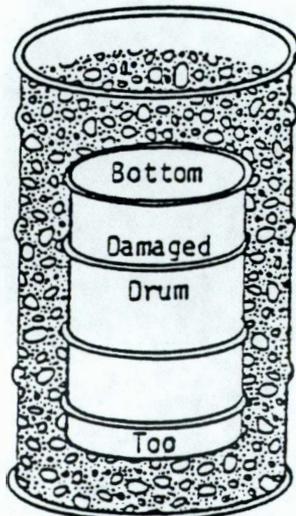
SOLID WASTE PLANT OPERATING PROCEDURE

APPENDIX 3 - INSTRUCTIONS FOR TIP-OVER METHOD FOR OVERPACKING A CONTAINER

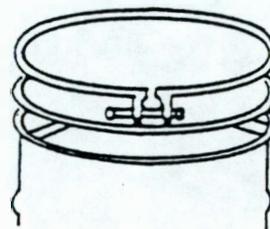


DAMAGED DRUM INSIDE OVERPACK DRUM

ABSORBENT MATERIAL
ADDED TO OVERPACK
DRUM



LID ASSEMBLY



SOLID WASTE PLANT OPERATING PROCEDURE

SAMPLE OF HAZARDOUS WORK PERMIT

This permit is to be completed by the responsible Supervisor whenever the work involves entry into a confined space, cutting/welding, or for any nonroutine hazardous work not covered by a written procedure or Job Safety Analysis (JSA).

a	Building _____	Start Date _____	Work Request No. _____
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Job Description _____

SECTION A CONFINED SPACE CHECKLIST
(Refer to WHC-CM-1-3, Standard W-13)

Yes	No	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Connecting lines isolated?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Associated equipment locked/tagged?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Forced ventilation provided?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Safety Observer assigned?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Job hazards and emergency procedures reviewed with personnel?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does work require cutting or welding? (If YES, complete section B below.)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mechanical retrieval device required?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Classified and posted?

GAS TEST DATE

Date _____ % O₂ _____

TIME _____ % LEL _____

BY _____ Other _____

Space Classification _____

Industrial Safety & Fire Protection
(or Class II and III confined spaces only)

SECTION B CUTTING/WELDING CHECKLIST
(Refer to WHC-CM-1-3, Standard FP-9)

Yes	No	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Automatic sprinklers in service?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Combustible floor wetted down or covered?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other combustibles relocated or protected?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flammable gas check required?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fire extinguishers provided?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pyrophoric chips and other combustibles swept clean?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wall, floor, duct, and tank openings covered?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Two Fire Watches provided (if necessary)?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is job in a confined space? (If YES, complete section A.)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Surfaces cleaned of all combustibles?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flammable vapors purged?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fire Watch(es) provided and instructed:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(a) In use of assigned fire extinguishers?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(b) To watch scene of work at least 30 minutes after job completion?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(c) Best method of initiating an alarm?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(d) To watch adjacent areas above and below or on other side of wall, roof, or floor, wherever combustibles are located?

Job site inspected by (initial): _____

Job Supervisor _____ Fire Watch(es) _____ Welder _____

NOTE: PERMITS ARE NOT TO BE ISSUED FOR CUTTING OR WELDING INTO CONCEALED SPACES UNLESS THEY ARE DEFINITELY KNOWN TO BE FREE OF FLAMMABLE AND COMBUSTIBLE MATERIAL.

SECTION C GENERAL HAZARD CHECKLIST (Refer to table of contents, WHC-CM-1-3, for applicable standard.)

<p>Associated Hazards</p> <input type="checkbox"/> Hazardous Toxic Materials (Tabs C & H) <input type="checkbox"/> Leather Gloves <input type="checkbox"/> Flammable Liq./Solids (FP-13) <input type="checkbox"/> Rubber Gloves <input type="checkbox"/> Elevated Work Area (CM-2, 12, G-3) <input type="checkbox"/> Foot Protection <input type="checkbox"/> High Temperature/Pressure (PS-1 to PS-4) <input type="checkbox"/> Safety Glasses <input type="checkbox"/> Excavation (> 4 ft.) (CM-8) <input type="checkbox"/> Chemical Goggles <input type="checkbox"/> Hazardous Atmosphere (W-13) <input type="checkbox"/> Face Shield <input type="checkbox"/> Electrical (E-1 to E-3, G-1) <input type="checkbox"/> Cold Suit <input type="checkbox"/> Temperature > 90° (W-6) <input type="checkbox"/> Ear Protection <input type="checkbox"/> Cold Temperature < 40 (W-6) <input type="checkbox"/> Hard Hat <input type="checkbox"/> Other _____ <input type="checkbox"/> Respirator <input type="checkbox"/> Supplied Air <input type="checkbox"/> Safety Belt/Harness <input type="checkbox"/> Other _____	<p>Personnel Protection Requirements</p> <input type="checkbox"/> Hazardous MSDS Reviewed with Workers <input type="checkbox"/> Radiation Work Procedure <input type="checkbox"/> Excavation Permit <input type="checkbox"/> Barricades <input type="checkbox"/> Shoring/Sloping <input type="checkbox"/> No Smoking <input type="checkbox"/> Non Sparking Tools <input type="checkbox"/> Lock and Tag <input type="checkbox"/> Other _____	<p>Requirements</p> <input type="checkbox"/> REQUIRED TRAINING CURRENT <input type="checkbox"/> "BUDDY SYSTEM"
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Remarks or Special Instructions _____

This permit is valid until (Time) _____ on (Date) _____

Approvals _____
Job Supervisor
Facility Supervisor

Orientation: White - Job Supervisor Pink - Facility Supervisor
 Canary - Post on site Goldenrod - Industrial Safety and Fire Protection, 2753E/200E/93-51 34-6700-148 (02/99)

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SAMPLE

