

# START SOLID WASTE PLANT OPERATING PROCEDURE

## SYSTEM BURIAL AND WASTE

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### PERFORM 616 STORAGE FACILITY INSPECTION PLAN

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#### I. SYSTEM DESCRIPTION

This procedure provides instructions for inspection of the Nonradioactive Dangerous Waste Storage Facility (NRDWSF - 616). A daily inspection is performed whenever the facility is occupied to ensure that no abnormal conditions exist that could create a hazard. A daily inspection is performed in accordance with WAC 173-303-320. Housekeeping steps are included in the daily inspection.

Regular inspection of waste storage/disposal facilities is necessary to identify malfunctions and deterioration, human error, and packaging problems, which may cause or lead to release of hazardous waste constituents to the environment, or pose a threat to human health.

In addition to the daily inspection, a weekly inspection of the facility is performed by Solid Waste and Operations Engineering in accordance with the Dangerous Waste Regulations, WAC 173-303-630.

#### II. REFERENCE DOCUMENTS

- Washington Administrative Code 173-303-320.
- Washington Administrative Code 173-303-630.

#### III. PRESTART CONDITION

Solid Waste Operations supervision has requested that an inspection be performed. All safety requirements for entry into the facility are satisfied. Personnel are qualified to perform inspections and have received the necessary on-the-job training.



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## IV. SAFETY

### WARNING

BEFORE PERSONNEL CAN OCCUPY THE FACILITY, THE VENTILATION SYSTEM MUST BE IN OPERATION AND THE DIFFERENTIAL PRESSURE BETWEEN THE OFFICE AND THE STORAGE CELLS MUST BE LESS THAN ZERO. AN EXCEPTION TO THE NEGATIVE DIFFERENTIAL PRESSURE REQUIREMENT CAN OCCUR WHEN WINDY CONDITIONS CAUSE FLUCTUATIONS IN THE DIFFERENTIAL PRESSURE. NOTIFY SUPERVISION IMMEDIATELY IF THE DIFFERENTIAL PRESSURE IS POSITIVE. FAILURE OF THE VENTILATION SYSTEM, IN THE EVENT OF A SPILL, COULD CAUSE A BUILD-UP OF TOXIC GASES INSIDE THE FACILITY.

If a leak or spill is suspected, evacuate and notify supervision. Supervision shall determine if Hanford Fire Department Hazardous Material (HAZMAT) team is needed. This decision will be based on Solid Waste Engineering (SWE) and/or Industrial Safety & Fire Protection (IS&FP) input. If further spill containment and/or stabilization is required, the Hanford Fire Department HAZMAT team will be contacted. Facility personnel must evacuate the facility until the HAZMAT team gives approval for re-entry. Supervision may remain in office area depending on the severity of the incident.

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.

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 immediately.

The buddy system is required when working around or handling hazardous waste containers in the storage cells.

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

Wear safety glasses when performing facility inspections.

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.

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## IV. SAFETY (cont.)

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, Hazard Communication
  - Standard C-7, Chemical Storage and Handling
- The Chemical Waste Disposal Analysis Letter, issued by Solid Waste Engineering (SWE), for chemical wastes received for storage at the 616 Facility
- MATERIAL SAFETY DATA SHEETS
- WHC-CM-4-3, Volume 3, G-1, Emergency Control Program (Lockout/Tagout).

## V. TOOLS AND SUPPLIES

Protective Clothing

Dry Sweeping Compounds

DAILY/WEEKLY INSPECTION SHEET

SW-001-320, RESPOND TO EMERGENCIES - 616 STORAGE FACILITY

SW-100-123, DISPOSE OF FACILITY GENERATED WASTE - 616 STORAGE FACILITY

SW-040-040, INSPECT SWO FACILITIES AND EQUIPMENT

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## VII. PROCEDURE

*NOTE (1) - 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.*

### WARNING

**IF BOTH VENTILATION SYSTEMS FAIL, EVACUATE FACILITY AND NOTIFY SUPERVISION. FAILURE OF ONE OR BOTH VENTILATION SYSTEMS IN THE FACILITY COULD CAUSE A REVERSAL OF AIRFLOW. IF THIS FAILURE WERE TO OCCUR DURING A HAZARDOUS WASTE SPILL, TOXIC GASES COULD ACCUMULATE IN THE OFFICE AREA.**

*NOTE (2) - The 616 Storage Facility is divided into two main areas, the storage area and the office area. These two areas are served by separate ventilation systems. The ventilation systems are designed to provide airflow from the office area toward the storage area.*

*NOTE (3) - A differential pressure gauge is located next to fire door number 2 (FD2) across from office area. The gauge only provides information on airflow direction between the office area and the storage area. A negative gauge reading indicates that airflow is normal, from office area to storage area.*

#### A. PERFORM PRE-ENTRY CHECK

*NOTE - The following steps shall be performed before entering the 616 Building (Facility).*

*- There are two indicator lights (normally on) that indicate the operating status of the exhaust and supply fans of the storage area. These two indicator lights are visible through the office window.*

[1] By looking through office window, **OBSERVE** supply fan and exhaust fan indicator lights.

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# SOLID WASTE PLANT OPERATING PROCEDURE

## A. PERFORM PRE-ENTRY CHECK (Cont.)

(S) [2] **RESPOND** to indicator lights as described in following chart:

SUPPLY FAN LIGHT	EXHAUST FAN LIGHT	RESPONSE
ON	ON	No reponse required.
OFF	ON	Enter office area. Verify differential pressure is less than 0. Notify supervision for corrective action. If differential pressure is 0 or greater, evacuate building.
OFF	OFF	Before entry, notify supervision for corrective action.
ON	OFF	Before entry, notify supervision for corrective action.

*NOTE - Supervision will evaluate the situation and contact IS&FP, SWE and/or Maintenance personnel.*

[3] **IF** no response is required,

OR

**AFTER** corrective action is complete, **ENTER** Facility to perform daily inspection.

*NOTE - Supervision will ensure that eyewashes and safety showers are tested weekly per WHC-CM-4-3, Vol. 1, Standards G-6 and G-11, and that pathways to safety showers and eyewashes are clear of obstructions.*

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## B. PERFORM DAILY INSPECTION

### WARNING

ENSURE THAT ALL TRENCHES AND SUMPS ARE COVERED AT ALL TIMES UNLESS WORK REQUIRING REMOVAL OF COVERS OR GRATINGS IS BEING CONDUCTED. OPEN TRENCHES SHALL NOT BE UNATTENDED UNLESS AREA IS ROPED OFF AND WARNING SIGNS ARE CLEARLY POSTED. OPEN TRENCHES SHALL BE NOTED IN THE COMMENTS SECTION OF THE DAILY/WEEKLY INSPECTION SHEET.

WHEN PERFORMING DAILY INSPECTIONS, USE THE BUDDY SYSTEM.

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- [1] OBTAIN a current DAILY/WEEKLY INSPECTION SHEET from the Facility office.
  - [2] ENTER the date and time on the DAILY/WEEKLY INSPECTION SHEET (sheet 1).
  - [3] RECORD the following on the DAILY/WEEKLY INSPECTION SHEET:
    - Ventilation system is ON or OFF (Section 1.0)
    - Differential pressure from DP gage next to FD2. (Section 2.0)
    - Exit sign lights are operating. (Section 2.0)

### WARNING

IF A LEAK OF SPILL IS DISCOVERED, IMMEDIATELY EVACUATE THE CELL AND NOTIFY SUPERVISION AND OTHER FACILITY PERSONNEL. REFER TO SW-001-320 FOR CORRECT RESPONSE.

- [4] Using the DAILY/WEEKLY INSPECTION SHEET, INSPECT each cell  
and

CHECK for the following:

- Moisture on floor indicating a leak of spill (Section 5.0 B.)
- Moisture on side of container indicating a leak (Section 5.0 A.)
- Liquid in any trench (Section 4.0)
- Liquid in sumps (Section 4.0)
- Container structural integrity (Section 5.0 A.)
- Containers are closed (Section 5.0 A.)
- Corrosion on containers (Section 5.0 A.)
- Evidence of spills or leaks (Section 5.0 A.)
- Container labels in place (Section 5.0 A)
- Safety Equipment is operational and in place (Section 5.0 C.)
- Fire extinguishers in place (Section 5.0 C.).

- [5] RECORD findings on the DAILY/WEEKLY INSPECTION SHEET.

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## B. PERFORM DAILY INSPECTION (Cont.)

- [6] **ENSURE** safety showers/eyewashes have been functionally tested per SW-040-040 within the last week.
- [7] **CONFIRM** that safety showers are unobstructed.
- [8] **VERIFY** that all outside cell doors are shut and locked

AND

**RECORD** on DAILY/WEEKLY INSPECTION SHEET (Section 4.0).

- [9] **SIGN** the DAILY/WEEKLY INSPECTION SHEET (sheet 3).

- [10] **REPORT** any problems or non-compliant items to the SWO supervisor.

## C. PERFORM WEEKLY INSPECTION

- [1] **ENSURE** that daily inspection is performed before entering facility and storage areas.

*NOTE - Inspection personnel shall remove items such as: combustible supplies, trash, excessive equipment and materials from storage areas rather than reporting a problem on the checksheet.*

- [2] Visually **CHECK** all items listed on sheets 1 and 2 of the DAILY/WEEKLY INSPECTION SHEET.

- [3] **IF** any problems or non-compliant items are identified, **ALERT** the SWO supervisor.

*NOTE (1) - The supervisor shall direct any immediate or remedial action necessary to correct inspection problems and comments.*

*NOTE (2) - Problems and comments shall be tracked until corrective maintenance is complete.*

*NOTE (3) - A copy of the weekly facility checksheets shall be maintained at the 616 facility for three years.*

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# SOLID WASTE PLANT OPERATING PROCEDURE

## DAILY/WEEKLY INSPECTION SHEET (sheet 1 of 3)

Building 616 Daily Solid Waste Operations  
Inspection (sheet 1 of 3)

Inspection No. \_\_\_\_\_ Status: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

	YES	NO	If no, specify
<b>1.0 Office Area</b>			
Exit Unobstructed			
Fire extinguisher in place			
Public address system operating			
Ventilation indicator lights operating			
Telephone operating			
Radio operating			
<b>2.0 Hallway</b>			
Exit sign operating			
Fire extinguisher in place			
Exits unobstructed			
Protective equipment supply present			
Pressure differential gage working-reading:			
<b>3.0 Receiving Material and Handling Equipment Area</b>			
Absorbents present			
Emergency equipment present			
Exit unobstructed			
Fire extinguisher in place			
Overpack drums present			
Telephone operating			
Radio operating			
<b>4.0 Structure Exterior</b>			
Curbing in good condition			
Exits unobstructed			
Pads/loading area crack free			
Trenches locked closed/empty			
No combustibles stored within 50 feet of structure			
Roads/fire lanes unobstructed			
Exterior telephone operating			

1 | Figure 6-1 Building 616 Daily Solid Waste Operations Inspection.  
2 | (sheet 1 of 3)

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Building 616 Daily solid Waste Operations  
Inspection. (sheet 2 of 3)

	Packaging and sampling room <sup>a</sup>	Oxidizer <sup>a</sup>	Caustic <sup>a</sup>	Acid <sup>a</sup>	Combustible <sup>a</sup>	Flammable 1B <sup>a</sup>	Flammable 1A <sup>a</sup>
<b>5.0 Storage Areas</b>							
<b>A. Container Condition:</b>							
Closed							
Corrosion							
Evidence of leakage							
Required labels							
Structural defects							
<b>B. Structures:</b>							
Curbing							
Exits unobstructed							
Floor							
Roof/walls							
<b>C. Safety/Emergency Equipment</b>							
Exit Light operating							
Fire extinguisher in place	NA	NA	NA	NA			NA
<b>D. Container Location<sup>b</sup></b>							
Waste Tracking form ID No./Location							
Waste Tracking Form ID No./Location							
Waste Tracking Form ID No./Location							

<sup>a</sup>N/A - Not applicable.

X - No problems noted.

C - See comments for problem description or remedial action required.

<sup>b</sup>Three container locations are verified against the storage building inventory. Record the waste tracking form ID No./Location for each container checked above. Record discrepancies identified in the comments section.

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DAILY/WEEKLY INSPECTION SHEET (sheet 2 of 3)

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# SOLID WASTE PLANT OPERATING PROCEDURE

## DAILY/WEEKLY INSPECTION SHEET (sheet 3 of 3)

### Building 616 Daily Solid Waste Operations Inspection. (sheet 3 of 3)

#### 6. Comments

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Inspector \_\_\_\_\_  
(print name)  
\_\_\_\_\_  
(sign name)

#### 7. Remedial Action Taken

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#### 8. Solid Waste Facility Operations Supervisor Acknowledgement of Action

Completed: \_\_\_\_\_  
Todays Date: \_\_\_\_\_

\_\_\_\_\_  
(print name)  
\_\_\_\_\_  
(sign name)

1 | Figure 6-1. Building 616 Daily Solid Waste Operations Inspection  
2 | (sheet 3 of 3)

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