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ENGINEERING DATA TRANSMITTAL

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1	1	Cog.Eng. KD Johnson	<i>[Signature]</i>	T4-03		DW. Zahn	<i>[Signature]</i>	T4-04		3/1	
1	1	Cog. Mgr. DB Powell	<i>[Signature]</i>	T4-03		RW Witlock	<i>[Signature]</i>	T4-03		3	
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3		PL Hapke		T4-03							
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3		DR Pyzel		T4-03		Central Files (2 copies)				L8-04	
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RELEASE AUTHORIZATION

Document Number: WHC-SD-WM-AP-033, REV 0

Document Title: Mixed Waste Trench Loading Placement Instructions

Release Date: 12/21/94

**This document was reviewed following the
procedures described in WHC-CM-3-4 and is:**

APPROVED FOR PUBLIC RELEASE

WHC Information Release Administration Specialist:

Kara M. Broz

December 21, 1994

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2. Title Mixed Waste Trench Loading Placement Instructions	3. Number WHC-SD-WM-AP-033	4. Rev No. 0
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<p><i>KMB 12/21/94</i></p> <p>APPROVED FOR PUBLIC RELEASE</p>		
7. Abstract		
<p>This Document provides instruction for planning where to locate waste to be placed in the Mixed Waste trenches in the 218-W-5 Burial Ground in the 200 West Area.</p>		

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8. RELEASE STAMP

MASTER

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Mixed Waste Trench Loading Placement Instructions

1. INTRODUCTION

This document is for guidance in determining where to place waste in the Mixed Waste (MW) trenches in the 218-W-5 Burial Ground. Waste location placement instructions will be developed by Solid Waste Management Facility Engineering (SWMFE).

Initially normal trench operations will involve receipt of mixed waste in drums and as loose bulk material. During the life of the facility it is expected that other containers such as boxes and bulk items will be delivered to the MW trench for disposal. These instructions are to be used as direction for the process of locating where to place waste of any type within the MW trench. With proper placement of waste in the MW trench, smooth continued operation will be ensured.

2. TRENCH LOADING CRITERIA

Placement of waste must consider all pertinent factors. Factors to be considered are:

- The effect that location of waste placement has on access for cover and placement of other waste.
- Waste can be placed in the trench to a height of one drum. In the case where a container is higher than one drum, waste can only be placed to a height of one container.
- Waste height and how it will impact the next operating layer, after 2 feet of cover is placed on it.
- Shear forces produced on the liner by the waste, and by equipment used in placing the waste in the MW trench. Consideration will be given for the presence of the liner at the top of the trench back to the anchor point of the liner.
- Waste placement shall be consistent with ALARA principles and practices. The possible spread of contamination will be minimized.
- Structural integrity of the waste to support the next operations layer and operating equipment.
- Any special case requirements for stabilization of the waste package or stabilization of the cover over the package.
- Waste container geometry.
- In general, filling of the trench should be from east to west, one layer at a time to provide relatively level loading.

- For each layer of waste, the filling pattern must maintain a path for vehicular access from the loading ramp to the most eastern location in the trench for waste placement.
- Existing fill in the trench. Consult maps indicating what is already in the trench and/or visit the trench to observe existing geometry.

Other items may need to be considered in the placement of waste in the MW trench. It is the responsibility of the cognizant engineer for the MW trench to take into account all appropriate factors. Operations will be consulted for input into selection of waste placement location.

3. DOCUMENTATION

Waste shall be put in the trench using the current version of Plant Operating Procedure SW-100-171. Waste shall be located in the trench for disposal per the following instructions.

- Written direction from Solid Waste Facility Management Engineering with approval of Operations
- CAD produced H-2 type drawing showing specified location to place waste that will be received.

After waste is placed in the trench the location shall be verified for placement as instructed and the location recorded as instructed in Solid Waste Plant Operating Procedure SW-100-171, section F.