

# CCP-TP-028

Revision 6

## CCP

# Radiographic Test Drum and Training Container Construction

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APPROVED FOR USE

RECORD OF REVISION

Revision Number	Date Approved	Description of Revision
2	02/04/2004	In response to CAR No: CAR-CCP-010-03, revision change to create electronically fillable form and update references. Change FQAO to CCP Training and add Facility Records Custodian in Responsibilities section of procedure. Minor editorial corrections throughout procedure. Revision to Waste codes on Attachment 1 and fillable form.
3	01/19/2006	Revised procedure steps and Attachment 1, CCP NDE Test Drum Inventory Sheet to allow for multiple Summary Category Groups to be represented in a test/training drum. Revised Drum Contents section of Attachment 1 to include WAP-required items and other non-WAP items.
4	05/26/2010	Revised to clarify the difference between a Test Drum and a Training Drum and how they are to be constructed.
5	07/27/2010	Revised to correct editorial errors.
6	12/29/2010	Revised to incorporate training containers in place of training drums. Also revised training container assembly procedures to meet the requirements of the revised <i>Waste Isolation Pilot Plant Hazardous Waste Facility Permit</i> .

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## 1.0 PURPOSE

The purpose of this procedure is to provide the requirements for the assembly of nondestructive examination (NDE) test drums and training containers, required by CCP-PO-002, *CCP Transuranic Waste Certification Plan* and training containers, required by CCP-PO-001, *CCP Transuranic Waste Characterization Quality Assurance Project Plan*, and the Contact Handled (CH)-Transuranic (TRU) Payload Appendices which are used to qualify Radiography Operators in accordance with CCP-QP-002, *CCP Training and Qualification Plan*.

### 1.1 Scope

This procedure assembles NDE test drums representative of the Waste Matrix Codes (WMC) for which Waste Stream Profile Form (WSPF) approval is sought and training containers which are required to be scanned semi-annually.

## 2.0 REQUIREMENTS

### 2.1 References

#### Baseline Documents

- CCP-PO-001, *CCP Transuranic Waste Characterization Quality Assurance Project Plan*
- CCP-PO-002, *CCP Transuranic Waste Certification Plan*
- CH-TRU Payload Appendices

#### Referenced Documents

- CCP-QP-002, *CCP Training and Qualification Plan*
- CCP-QP-008, *CCP Records Management*

3.0 RESPONSIBILITIES

3.1 Vendor Project Manager (VPM) or Cognizant Engineer (CE)

3.1.1 Ensures that test drums and training containers are constructed in accordance with the requirements of this procedure.

3.1.2 Completes Attachment 1, CCP NDE Test Drum Inventory Sheet, and Attachment 2, CCP NDE Training Container Inventory Sheet.

3.2 CCP Training

3.2.1 Tracks the use of test drums and training containers to ensure that testing and evaluation of NDE Operators are conducted on test drums and training containers, as specified in CCP-QP-002.

3.3 Facility Records Custodian

3.3.1 Transmits all records generated by this procedure in accordance with CCP-QP-008, *CCP Records Management*.

4.0 PROCEDURE

4.1 Test Drum Assembly

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**NOTE**

Test Drums are to be assembled representing all three Summary Category Groups, with the bottom ¼ being sludge, a spacer (e.g., cardboard), next ¼ being naturally occurring soil, and the top half containing debris using the listed required items and other material representing all the waste material parameters for debris.

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**VPM**

4.1.1 Identify **AND** obtain the items needed to match the WMCs (items common to the waste streams to be characterized).

4.1.2 Obtain the following required items for each drum to be constructed:

- [A] Department of Transportation (DOT) Type A 55-gallon drum
- [B] Aerosol can with puncture
- [C] Horsetail bag (Liner Bag)
- [D] Pair of coveralls
- [E] Empty bottle
- [F] Irregular-shaped pieces of wood
- [G] Empty one-gallon paint can
- [H] Full container
- [I] Aerosol can with fluid
- [J] One-gallon bottle with three tablespoons of fluid
- [K] One-gallon bottle with one cup of fluid
- [L] Leaded glove or leaded apron
- [M] Wrench

4.1.3 Construct the test drum(s) as follows:

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**NOTE**

NDE test drum identification number format is NDE-TEST-01, NDE-TEST-02.

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- [A] Label the test drum with a unique identification number obtained from CCP Training.
- [B] Record the test drum identification number and date on Attachment 1.
- [C] Place sludge and spacer in drum
- [D] Place soil in drum.

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**NOTE**

The one-gallon bottle with one cup of fluid (step 4.1.2[K]) MUST be placed upside down in the test drum. In addition, the test drum will be divided into layers with varying densities to represent different situations that may occur during radiography examinations.

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- [E] Place the remaining items listed in Section 4.1.2 (steps 4.1.2[B] through 4.1.2[M]), along with items common to the waste stream(s) (step 4.1.1), in the test drum.
- [F] Record the placement of items (step 4.1.3[E]) on Attachment 1.
- [G] Secure the lid to the test drum using the outside ring.
- [H] Place a tamper-indicating device/lock on the test drum.
- [I] Complete Attachment 1, print name, sign, **AND** date on Attachment 1.

4.1.4 Repeat steps in Section 4.1.3 for each NDE test drum constructed.

4.1.5 Forward Attachment 1 to the Facility Records Custodian.

**Facility Records Custodian**

4.1.6 Transmit Attachment 1 in accordance with CCP-QP-008 to the CCP Training Group.

4.2 Assembling Training Containers

**CE**

4.2.1 Obtain the following items for each training container to be constructed:

- Container type regularly examined, for example a 55-gallon drum or standard waste box (SWB)
- Items which can be identified by Real-Time Radiography (RTR), items that are representative of the physical properties of the waste based on AK documentation reviewed (including internal containers of various sizes with various amounts of liquid), and prohibited items (for example, liquids in excess of one percent)

**NOTE**

NDE Training container identification number format is NDE-TRAINING-01.

4.2.2 Label the training container with a unique identification number obtained from the training department.

4.2.3 Place the items in the containers.

4.2.4 Record the placement of the items on Attachment 2.

4.2.5 Install the container lid.

4.2.6 Install tamper indicating device.

4.2.7 Print name, sign, and date Attachment 2.

4.2.8 Repeat steps in Section 4.2 for each NDE training container constructed.

4.2.9 Forward Attachment 2 to CCP Training.

5.0 RECORDS

5.1 Records generated during the performance of this procedure are maintained as Quality Assurance (QA) records in accordance with CCP-QP-008. The records are the following:

5.1.1 QA/Nonpermanent Records

[A] Attachment 1 – CCP NDE Test Drum Inventory Sheet

[B] Attachment 2 – CCP NDE Training Container Inventory Sheet

Attachment 1 – CCP NDE Test Drum Inventory Sheet

Test drum identification number:		Date:
Drum contents:		
<b>CCP-PO-002 required items</b>	<b>Other items</b>	
1. Aerosol can with puncture	1.	
2. Horsetail bag (Liner Bag)	2.	
3. Pair of coveralls	3.	
4. Empty bottle	4.	
5. Irregular-shaped pieces of wood	5.	
6. Empty one-gallon paint can	6.	
7. Full container	7.	
8. Aerosol can with fluid	8.	
9. One-gallon bottle with three (3) tablespoons of fluid	9.	
10. One-gallon bottle with one (1) cup of fluid (upside down)	10.	
11. Leaded glove or leaded apron	11.	
12. Wrench	12.	
Comments:		
VPM Printed Name	Signature	Date

