ENTERED

Allen, Pam, NMENV

From: Maestas, Ricardo, NMENV
Sent: Thursday, October 31, 2013 1:37 PM
To: Allen, Pam, NMENV
Subject: FW: AMWTP Documents Rec'd by NMED during A-14-01 Audit
Attachments: AMWTP NCR-Supercompaction NCRs Recd 10_02_13.pdf; AMWTP Traceability of NCR-Supercompaction Recd 10_02_13.pdf; AMWTP 8.13.1 SPM Procedure NCR-Supercompaction Recd 10_02_13.pdf; AMWTP Training Roster for NCR-Supercompaction Recd 10_03_13.pdf

Email and attachments for WIPP file.

From: Maestas, Ricardo, NMENV
Sent: Monday, October 07, 2013 11:42 AM
To: Kliphuis, Trais, NMENV; Holmes, Steve, NMENV; Smith, Coleman, NMENV
Cc: Allen, Pam, NMENV; Maestas, Ricardo, NMENV
Subject: AMWTP Documents Rec'd by NMED during A-14-01 Audit

Attached are AMWTP documents that NMED received during the AMWTP A-14-01 Audit (Oct. 1-3, 2013)

- Copy of two NCRs that mention Supercompaction disposition
- NCR to Supercompaction Traceability for two drums
- SPM site procedure that spells out what SPMs and ITRs need to do when choosing Supercomapction (not a WIPP procedure)
- Roster for NCR-Supercompaction training

Ricardo Maestas
>><<<>>><<<>>><<<>>><<

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131003

AMWTP Advanced Mixed Waste Treatment Project	Tailgate Approval	FORM-1638 Rev, 3 Effective: 08/04/10 Page 1 of 2

Implementing Document: MP-RTQP-14.11

Tailgate No.	Course Revision #	Tailgate Title:
TGRTR0000045	N/A	RTR/ITR/SPM support of super- compaction activities

Session Purpose:

to provide training to ITRs and SPMs who perform validation of RTR batches, with regards to changes in direct feed to the super-compactor

Target Audience:

(Be specific, e.g., Retrieval operators, Shift Supervisor, Plant Shift Manager)

ITRs/SPMs

Session Objective(s):

(State in performance based terms, i.e., what the employee should be able to explain or do after the tailgate presentation.)

update on recent PMR changes, identify the conditions and accepatability of direct feed candidates

Session Content Outline:

(Adequate content detail sufficient to address tailgate session objective(s) is required. Attachments [PowerPoint presentations or other documents] used to present content outline must be included.)

provide new language to identify candidates for compaction, and to identify containers that do not meet the requirements for compaction

[X] **Attachment or session outline continued on separate page.**

Check YES or NO. A Tailgate may not be appropriate if any of the following are checked YES.

YES	NO	
[ ]	[X]	**It is used for initial training as part of a qualification or certification program.**
[ ]	[X]	**It includes a formal test or quiz.**
[ ]	[X]	**It needs to be repeatable and consistently delivered on a recurring basis.**
[ ]	[X]	**It may have legal liability due to associated hazards.**
[ ]	[X]	**It lasts longer than 2 hours.**

Any of the above marked YES must be justified below.

For further guidance, see MP-RTQP-14.11, Delivery of Training.

JUSTIFICATION APPROVAL

Justification for deviation from guidelines:

(Training Manager approval is only required for use of a Tailgate when deviating from the above guidance.)

	Print Name	Signature	Date
Training Manager Approval:			

TAILGATE APPROVAL

Remarks:

	Print Name	Signature	Date
Line Manager Approval:	SCHWEINSBERG, ERIC 000086737	Electronic Signature	4/4/2013

Use TRAIN Attendance Scan feature or Form-1316, Training Attendance Roster to record attendance at Tailgate sessions

INFORMATION ONLY

AMWTP Advanced Mixed Waste Treatment Project	Training Attendance Roster	FORM-1316, Rev. 2 Effective: 08/04/10 Page 2 of 2

Implementing Document: MP-RTQP-14.11

Course or Tailgate Number	Course Revision #	Course or Tailgate Title:	Date Presented
TGRTR0000045	N/A	RTR/ITR/SPM support of super- compaction activities	4/8/2013

Remarks

Types of Training: ☐ Course ☒ Tailgate ☐ Test

Student Roster				Completion
S No.	Print Name (Last, First, MI)	Signature	Date	Status*
000070630	BAGLEY, JULIA		5/16/2013	C
000101522	BIRCH, KATHERINE		5/16/2013	C
000074620	BURNSIDE, KENNY		4/4/2013	C
000067808	BYRAM, GEORGE		4/4/2013	C
000104394	CANIFF, SEAN		4/8/2013	C
000104550	CARPENTER, STEPHEN		5/13/2013	C
000085490	ERHARDT, WILLIAM		5/16/2013	C
000085557	FETZER, PAMELA		4/8/2013	C
000100175	GASPER, DENNY		5/13/2013	C
000085666	HINKLE-DANIEL, CARALEA		5/13/2013	C
000045287	HUGHES, KRISANN		4/4/2013	C
000077456	KILLIAN, ROBIN		4/8/2013	C
000102910	KIRK, NANCY		4/8/2013	C
000103080	LANCE, JASON		4/4/2013	C
000061645	LEE, DENISE		4/8/2013	C
000065807	MORRIS, RANDALL		5/13/2013	C
000103628	ROJAS, CESAR		4/4/2013	C
000086737	SCHWEINSBERG, ERIC		4/8/2013	C
000058429	SIMMONS, CRAIG		4/8/2013	C
000087632	SIMONSON, JAY		4/4/2013	C
000103164	SKAAR, WESLEY		4/4/2013	C
000101562	SORENSON, MARK		4/4/2013	C
000077582	STYHL, NICHOLAS		4/9/2013	C
000106666	TALLMAN, STEVEN		4/4/2013	C
000035927	TEDFORD, GINA		5/16/2013	C
000103095	THOMPSON, ROELONT		4/8/2013	C
000078972	WALKER, REED		4/4/2013	C
000071479	WASYLOW, CHADWICK		4/4/2013	C

Name of person presenting training or proctoring exam:	Presenter's signature to verify attendance and completion status:	Date	* Show status as: C - Completed P - Passed I - Incomplete N - No Show F - Failed

INFORMATION ONLY

TRU Programs Site Project Office Process

(General Use)

Advanced Mixed Waste Treatment Project

Approval:

(Signature on file. See DCR-12705.) 09/09/13

Date

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Appendix A – Revision Log A1

1.0 PURPOSE/SCOPE

This instruction is intended to provide direction for TRU Programs personnel in order to establish a consistent approach for data review and reporting. It further provides direction for performing tasks that are not necessarily required in the Waste Isolation Pilot Plant (WIPP) Waste Analysis Plan (WAP) or Waste Acceptance Criteria (WAC). This document also provides direction and instruction to Level I validation personnel to implement storage requirements associated with the Advanced Mixed Waste Treatment Project (AMWTP) Hazardous Waste Management Act (HWMA)/Resource Conservation and Recovery Act (RCRA) Permit. Additional direction is outlined to support Advanced Mixed Waste Treatment Facility (AMWTF) processing and treatment activities and the verification of the associated waste acceptance requirements for operational compliance.

2.0 ROLES AND RESPONSIBILITIES

Performer	Responsibilities
Site Project Manager (SPM)	• Reviews and assesses deviations • Reviews and approves information related to the WIPP WAP, WAC, Contact-Handled TRUPACT-II Authorized Methods for Payload Control (CH-TRAMPAC), AMWTP Hazardous Waste Management Act/Resource Conservation and Recovery Act (HWMA/RCRA) Permit, or AMWTF WAC prior to formal promulgation • Performs SPM verification of nonconformance report (NCR) corrective actions.
Site Project Manager Designee (SPMD)	• Reviews and assesses data for compliance • At the direction of the SPM, reviews and approves information related to the WIPP WAP, WAC, CH-TRAMPAC, AMWTP HWMA/RCRA permit, or AMWTF WAC prior to formal promulgation • Performs SPM verification of NCR corrective actions • Ensures containers selected for on-site processing or treatment meet the applicable criteria • Assigns appropriate approved remediation to Type-3 NCRs.

Performer	Responsibilities
Acceptable Knowledge Expert (AKE)	• Evaluates recommended item description code (IDC) changes and historical data in Waste Tracking System (WTS) • Performs container-specific acceptable knowledge (AK) inspections and evaluations.
Real-Time Radiography (RTR) Reviewer	• Performs RTR reviews.
Level I RTR/Independent Technical Reviewer (ITR)	• Assigns the resources required to perform the second 100% RTR reviews • Directs 200% review • Performs audio/visual (A/V) reviews related to AMWTP HWMA/RCRA permit for containers that are candidates for the Pad 2 storage area and selects the applicable disposition for the containers.
Nondestructive Assay (NDA) Expert Technical Reviewer (ETR)	• Reviews radioassay data for the presence of ^{137}Cs and ^{90}Sr for Rocky Flats (RF) waste streams other than 004 and 480 • Reviews radioassay data for MLLW direct-feed candidates.
RTR Subject Matter Expert (SME)	• Directs 200% review • Performs clean-up steps for the RTR hard drive.
Quality Assurance (QA)	• Performs QA verification of NCRs in accordance with MP-Q&SI-5.4, Identification of Nonconforming Conditions.
Low Level Waste (LLW)/Mixed Low-Level Waste (MLLW) Program Manager	• Directs 200% review.

3.0 PRECAUTIONS AND LIMITATIONS/PREREQUISITES

3.1 Precautions/Limitations

None

3.2 Prerequisites

None

4.0 INSTRUCTION

NOTE: *The sections in this procedure may be performed in any sequence.*

4.1 Second 100% Real-Time Radiography Review

NOTE 1: *The second 100% review (hereinafter referred to as the 200% review), although not required by WIPP, was established in the RTR Compensatory Measures by senior Bechtel BWXT Idaho, LLC (BBWI) management, and was instituted in October of 2006 to ensure that the criteria verified by the Carlsbad Field Office (CBFO) Confirmation Team are acceptable prior to reconciliation. This 200% review is performed to assist in preventing any Permit Mod 311 confirmation issues that could stop WIPP shipments.*

NOTE 2: *Due to the timeframes involved in beginning the 200% review, not all containers going through the 200% review will have had the first 100% review. While this backlog of containers for the RTR re-reviews is being worked, the following criteria are used to ensure that the criteria verified by the CBFO Confirmation Team are acceptable prior to reconciliation.*

NOTE 3: *The 200% reviewer cannot be the same reviewer who performed the original 100% review.*

4.1.1 RTR Reviewer: Perform a 200% review as directed by SPM to verify that the waste container under review does **NOT** contain prohibited items and does comply with the following criteria:

- For sealed containers >4 liters, a container will be considered sealed if the container **CANNOT** be conclusively determined to be open (lid removed, container breached, etc.).
- Pressurized containers, including unvented compressed gas cylinders, are prohibited.

NOTE: *Indeterminate seal = sealed container.*

- Sealed containers > 4 liters, including poly bottles, are prohibited.
- Liquids ≥ 1% of the container volume are prohibited.
- *Internal containers* (see def.) with more than 60 mL or 3% by volume observable liquid, whichever is greater, are prohibited.
- Plugged filter vent holes, as applicable, are prohibited.
- The physical form of the waste (e.g., debris, sludge) shall be confirmed.

4.1.1.1 **IF** a prohibited condition exists,
THEN verify that an NCR has been written.

4.1.1.1.1 **IF** no NCR has been written,
THEN generate an NCR in accordance with MP-Q&SI-5.4.

4.1.1.1.2 Notify the RTR SME, ITR, and SPMD via TrackWise NCR notification system of operator performance problem for evaluation.

4.1.1.1.2.1 **IF** the evaluation indicates a programmatic issue,
THEN initiate a Type-1 NCR in accordance with MP-Q&SI-5.4.

4.1.1.1.2.2 ITR: Approve Type-1 NCR **AND** notify the SPMD and RTR SME via TrackWise notification system.

4.1.1.2 Record the scan results
OR enter the data into WTS (if WTS is available).

4.1.2 RTR Reviewer: Review all containers to determine if the filter is plugged.

A. Failure criteria include:

- Drum **NOT** vented prior to RTR and top of waste < 3.5 in. below the locking ring
- Drum **NOT** vented prior to RTR and liner lid deformed.

NOTE: *Review is "Pass," if the filter vent holes are not in the waste.*

- Drum filter inserted into the waste.

4.1.2.1 Record the scan results
OR enter the data into WTS (if WTS is available).

4.1.3 RTR Reviewer: Perform a 200% review for all transuranic supercompaction direct feed waste as directed by the SPM or RTR SME to verify that the waste container under review does NOT contain the following supercompaction prohibited items:

- Impenetrable shielded container or impenetrable objects within the container
- Light ballasts, transformers, or other PCB-related items
- Free liquid mercury
- Potentially pressurized containers or non-vented gas containers; except as described in Step 4.1.3.1
- Lead acid batteries
- Drums with internal containers with observable liquid in excess of 60 mL or 3% by volume, whichever is greater, except as described in Step 4.1.3.2
- Free liquids as determined by RTR to be in excess of 5% of the container volume

(1291-2013-011, CWR 1)

- Explosives.

4.1.3.1 **IF** a drum is determined to contain aerosol cans
AND solid structural components are identified below the bottom chine,
THEN update the NCR addressing the nonconforming condition with this information.

4.1.3.1.1 **IF** aerosol cans are identified with liquid,
THEN update the NCR that addresses the nonconformance with the total quantity of liquid present in all aerosol cans.

4.1.3.1.2 **IF** aerosol cans are identified
AND other pressurized items are also identified,
THEN update the NCR with this information.

4.1.3.2 **IF** a drum is determined to contain internal containers with observable liquid in excess of 60 mL or 3% by volume, whichever is greater,
AND solid structural components are identified below the bottom chine,
THEN update the NCR addressing the nonconforming condition with this information.

4.1.3.3 **IF** a prohibited condition exists,
THEN verify that an NCR has been written.

4.1.3.3.1 **IF** an NCR has not been written,
THEN generate an NCR in accordance with MP-Q&SI-5.4.

4.1.3.3.2 Notify the RTR SME, LLW/MLLW Program Manager, and SPMD of operator performance problem for evaluation via TrackWise NCR notification system.

4.1.3.3.2.1 **IF** the evaluation indicates a programmatic issue,
THEN initiate a Type-1 NCR in accordance with MP-Q&SI-5.4.

4.1.3.3.2.2 SPM or LLW/MLLW Program Manager: Approve Type-1 NCR and notify the SPMD and RTR SME via TrackWise notification system.

NOTE 1: *Form-2084, Quick Scan Radiography Container Screening Log Sheet, is used for MLLW disposal only and an NCR is not required for items identified on this form unless the items are also listed in Step 4.1.3.*

NOTE 2: *200% review for completion of Form-2084 can be completed in conjunction with the review performed under Section 4.1.3, or separately as necessary.*

4.1.4 RTR Reviewer: Perform a 200% for completion of Form-2084, or WTS equivalent, referencing LST-LLW-04, Low-level Waste and Mixed Low-level Waste Prohibited and Restricted Items, for LLW/MLLW prohibited/restricted items.

4.1.4.1 Record the scan results on Form-2084
OR enter the data into WTS (if WTS is available).

4.1.5 Second RTR Reviewer: Review Form-2084, or WTS equivalent, for completeness.

4.1.5.1 Upon completion of review, sign and date Form-2084.

4.1.5.2 Provide completed form to the TRU Programs manager or designee.

4.1.6 SPMD: Notify the SPM of any deviations from the criteria in Steps 4.1.1 through 4.1.2 identified during the 200% review.

4.1.7 SPM: Review and assess the deviations identified in Steps 4.1.1 through 4.1.2
AND determine if NCRs are required.

NOTE: *Container(s) will not be processed through reconciliation until any deviations have been resolved.*

4.1.8 SPMD: Review the containers that are **NOT** acceptable in accordance with Steps 4.1.1 and 4.1.2 and in conjunction with the information below:

- TRU lined direct feed (LDF) containers **NOT** properly vented (i.e., the stem of the filter has been inserted through the rigid liner lid and into the waste) are acceptable for S/C so long as the drum itself has a filter installed and the appropriate Drum Age Criteria (DAC) has been met for an unvented configuration.

- Direct-feed drums containing liquid in any internal container in excess of 60 mL or 3% by volume of the internal container, whichever is greater, are acceptable for S/C if the liquid quantity is **NOT** ≥5% of the drum volume as prescribed in Step 4.2 or 4.3.

(1291-2013-011, CWR 1)

- Containers with open NCRs **CANNOT** be processed through S/C. Additional processing of containers with an open NCR in which the nonconformance will be remediated through S/C, will be performed in accordance with Steps 4.2 or 4.3, as appropriate.

4.2 Transuranic Direct-Feed Containers

NOTE 1: *All legacy debris waste will be processed through the facility via S/C or boxline six-drum overpack (SDOP) rather than direct shipment to WIPP. The AMWTF WAC differs from the WIPP WAC requirements.*

NOTE 2: *Only containers with an IDC included in RPT-TRUW-83, Acceptable Knowledge Summary for Supercompacted Debris Waste, Appendix A, Supercompactor Feedstock Debris, and whose container data fall within the parameters of the waste stream are considered candidates for S/C.*

NOTE 3: *S/C direct-feed candidate containers will have all required characterization performed, RTR/visual examination (VE) and assay at a minimum, and SPM data validation complete with results recorded in the operating record.*

4.2.1 SPMD: Review LDF and unlined direct-feed (UDF) container data to verify the drum is acceptable for S/C per the requirements outlined below:

4.2.1.1 Verify in WTS that the assay results for all TRU S/C candidate feed containers are marked as lower limit of detection (LLD) Drum "No."

4.2.1.1.1 **IF** the LLD Drum selection field is blank in the validated assay batch,
THEN ensure that each of the TRU S/C candidate feed containers have at least one TRU isotope with a value that is greater than the Minimum Detectable Activity.

4.2.1.2 Verify in WTS that the fissile gram equivalent (FGE) limit is less than 200 grams.

(RPT-NFCS-03, CWR 7.3.1)

4.2.1.3 Verify in WTS or through visual confirmation that a filter has been installed in the lid of the container.

4.2.1.4 Verify the container total surface dose-rate (sum of beta/gamma and neutron) is less than 200 mR/hr.

4.2.1.5 Verify that impenetrable shielded containers have undergone VE in lieu of RTR.

4.2.1.6 Verify for all S/C candidate feed containers that none of the following S/C-prohibited items are identified:

- Light ballasts, transformers, or other polychlorinated biphenyl (PCB)-related items
- Impenetrable shielded container or impenetrable objects within the container
- Lead acid batteries
- Free liquid mercury
- Potentially pressurized containers or non-vented gas containers, see Step 4.2.3 for aerosol containers
- Drums with internal containers with observable liquid in excess of 60 mL or 3% by volume, whichever is greater, except as described in Step 4.2.4
- Observable liquids ≥ 5% of the container volume

(1291-2013-011, CWR 1)

- Explosives.

4.2.2 SPMD: **WHEN** a container is identified for treatment, **THEN** update the *WTS Task List* (see def.) in WTS.

Example: If there is a light ballast, and the RTR analysis states either WIPP Accept or Facility Accept in the WTS Task List, the Container Disposition and RTR Task Disposition require updated to special-case waste.

NOTE: *The conversion to be used between milliliters and pints is 49 mL equates to 0.10 pints.*

4.2.3 **IF** any of the following conditions exist, **THEN** reject the drum from direct feed:

A. The combined liquid volume of unvented aerosol cans within a drum exceed 49 mL

B. If the combined liquid volume of unvented aerosol cans within a drum is ≤ 49 mL **AND** there are other pressurized containers

C. If solid structural components have been identified below the bottom chine.

4.2.4 **IF** internal containers with observable liquid in excess of 60 mL or 3% by volume, whichever is greater, have been identified,
AND solid structural components have **NOT** been identified below the bottom chine,
THEN accept the drum for direct feed.

4.2.4.1 **IF** solid structural components have been identified below the bottom chine,
THEN reject the drum for direct feed.

4.2.5 SPMD: For a container determined to be acceptable for S/C, update the WTS Task List to accurately reflect the container status.

4.2.5.1 Ensure that the Process Code is set to S/C.

4.2.5.2 Verify that all characterization tasks, RTR/VE and assay, at a minimum, are Quality Control (QC) Complete and "Facility Accept."

(RPT-NFCS-07, CWR 17, 20)

4.2.5.3 Ensure that the payload overpack (POP) and supercompactor are populated on the WTS Task List and set to "Required."

4.2.5.4 Verify that all other tasks which are set to "Required" are complete and the container disposition is "Facility Accept."

NOTE: *Candidate containers with open NCRs are evaluated and verified that the nonconforming conditions do not exceed AMWTF FGE entry requirements determined by a valid assay as defined in INST-FOI-26, AMWTF Receipt, Storage, and Container Management, or supercompactor WAC as defined in LST-EC&P-11, AMWTP HWMA/RCRA Permit WMF-676 Waste Management Criteria, or that remediation of the nonconforming condition has been completed. NCRs with conditions that do not meet supercompactor WAC will not be closed until the conditions have been remediated, and the container(s) meet supercompactor WAC.*

4.2.6 SPM: Evaluate open NCRs and perform SPM verification of corrective actions for containers verified to meet the supercompactor WAC and determined to be acceptable for compaction.

4.2.7 QA: Perform QA verification of NCRs in accordance with MP-Q&SI-5.4.

NOTE 1: *The SPM performs or requests the WTS support group to perform an acceptance check, commonly referred to as the "423/WAC check," when a container is scanned to enter the facility to ensure container data falls within the specified parameters for facility acceptance.*

NOTE 2: *Performance of 423/WAC check prior to approving containers for S/C will ensure all required parameters are set correctly and prevent a container from being rejected at the facility.*

4.2.8 SPMD: Perform 423/WAC checks in WTS or request the WTS support group to perform a 423/WAC check for containers that have been determined to be acceptable for S/C.

4.2.9 SPMD: Evaluate the results of the 423/WAC check provided by the WTS support group.

4.2.9.1 Make corrections to the WTS Task List for the container as necessary to resolve outstanding issues.

4.2.9.2 **IF** an outstanding issue exists that prevents a container from passing the 423/WAC check
AND that issue **CANNOT** be immediately resolved,
THEN remove that container from consideration for S/C until corrections can be made.

NOTE: *Containers that have been verified to meet the supercompactor WAC and have successfully passed the 423/WAC check can be approved for compaction.*

4.2.10 SPMD: Supply a list of containers approved for compaction to the Production Planning manager or designee on a Microsoft Excel worksheet.

4.3 Mixed Low-Level Waste Direct-Feed Containers

NOTE 1: *If MLLW direct feed containers have IDCs not associated with RTP-TRUW-83 and the waste has HWNs outside RPT-TRUW-83, then a decontamination method will be provided by environmental and performed before RTP-TRUW-83 waste can be processed.*

NOTE 2: *An MLLW treatment, storage, and disposal facility (TSDF) has acceptance criteria that may differ from that at WIPP or the AMWTF.*

NOTE 3: *S/C direct-feed candidate containers will have all required characterization performed, RTR/VE and assay at a minimum, and SPM data validation complete with results recorded in the operating record.*

4.3.1 SPMD: Review MLLW container data, LDF, and UDF container data to verify the drum is acceptable for S/C per the requirements outlined below:

4.3.1.1 Verify in WTS or through visual confirmation that a filter has been installed in the lid of the container.

4.3.1.2 Verify the container total surface dose-rate (sum of beta/gamma and neutron) is less than 200 mR/hr.

4.3.1.3 Verify that impenetrable shielded containers have undergone VE in lieu of RTR.

4.3.1.4 Verify for all S/C candidate feed containers that none of the following S/C-prohibited items are identified:

- Light ballasts, transformers, or other PCB-related items
- Impenetrable shielded container or impenetrable objects within the container
- Free liquid mercury
- Potentially pressurized containers or non-vented gas containers, see Step 4.3.2 for aerosol containers
- Lead acid batteries
- Drums with internal containers with observable liquid in excess of 60 mL or 3% by volume, whichever is greater, except as described in Step 4.3.3
- Free liquids as determined by RTR to be ≥5% of the container volume

(1291-2013-011, CWR 1)

- Explosives
- Pyrophoric material
- Etiologic agents
- Sealed radioactive sources
- >1% chelating agents.

NOTE: *The conversion to be used between milliliters and pints is 49 mL equates to 0.10 pints.*

4.3.2 **IF** any of the following conditions exist, **THEN** reject the drum from direct feed:

A. The combined liquid volume of unvented aerosol cans within a drum exceed 49 mL

B. If the combined liquid volume of unvented aerosol cans within a drum is ≤ 49 mL **AND** there are other pressurized containers

C. If solid structural components have been identified below the bottom chine.

4.3.3 **IF** internal containers with observable liquid in excess of 60 mL or 3% by volume, whichever is greater, have been identified,
AND solid structural components have **NOT** been identified below the bottom chine,
THEN accept the drum for direct feed.

NOTE: *MLLW containers that are a candidate for direct feed to the supercompactor must be evaluated by an Assay ETR to ensure they are suitable for inclusion in a MLLW source term.*

4.3.4 SPMD: Compile a listing of MLLW direct-feed candidates and supply to an ETR for review of the assay data.

4.3.4.1 ETR: Evaluate assay data to ensure the containers are acceptable for inclusion in a MLLW source term.

4.3.4.1.1 Supply the SPMD with a listing of the reviewed containers with the outcome of the review clearly indicated as acceptable or **NOT** acceptable for MLLW direct feed.

(RPT-NFCS-07, CWR 17, 20)

4.3.5 SPMD: For containers determined to be acceptable for S/C, update the WTS Task List to accurately reflect the container status.

4.3.5.1 Ensure that the Process Code is set to SC.

4.3.5.2 Verify that all required characterization tasks, RTR/VE and Assay at a minimum, are QC Complete and "Facility Accept."

4.3.5.3 Ensure that the POP and supercompactor are populated on the WTS Task List and set to "Required."

4.3.5.4 Ensure all other required tasks are complete and the container disposition is "Facility Accept."

NOTE 1: *Candidate containers with open NCRs are evaluated and verified that the nonconforming conditions do not exceed AMWTF FGE entry requirements determined by a valid assay as defined in INST-FOI-26 or supercompactor WAC as defined in LST-EC&P-11, or that remediation of the nonconforming condition has been completed.*

NOTE 2: *NCRs with conditions that do not meet supercompactor WAC will not be closed until the conditions have been remediated, and the container(s) meet supercompactor WAC.*

4.3.6 SPM: Evaluate open NCRs and perform SPM verification of corrective actions for containers verified to meet the supercompactor WAC and determined to be acceptable for compaction.

4.3.7 QA: Perform QA verification of NCRs in accordance with MP-Q&SI-5.4.

NOTE 1: *The SPM performs or requests the WTS support group to perform an acceptance check, commonly referred to as the 423/WAC checks, when a container is scanned to enter the facility to ensure container data falls within the specified parameters for facility acceptance.*

NOTE 2: *Performance of 423/WAC check prior to approving containers for S/C will ensure all required parameters are set correctly and prevent a container from being rejected at the facility.*

4.3.8 SPMD: Perform 423/WAC checks in WTS or request the WTS support group to perform a 423/WAC check for containers that have been determined to be acceptable for S/C.

4.3.9 SPMD: Evaluate the results of the 423/WAC check provided by the WTS support group.

4.3.9.1 Make corrections to the WTS Task List for the container as necessary to resolve outstanding issues.

4.3.9.2 **IF** an outstanding issue exists that prevents a container from passing the 423/WAC check
AND that issue **CANNOT** be immediately resolved,
THEN remove that container from consideration for S/C until corrections can be made.

NOTE: *Containers that have been verified to meet the supercompactor WAC and have successfully passed the 423/WAC check can be approved for compaction.*

4.3.10 SPMD: Supply a list of containers approved for compaction to the Production Planning manager or designee on a Microsoft Excel worksheet.

4.4 Container Review for WMF-635 Drum Repack Facility SWB Processing

NOTE 1: *S3000 waste streams, with the exception of IDCs RF-003, RF-700, and RF-801 (organics), are approved for processing in the WMF-635 Treatment Tent.*

NOTE 2: *WMF-635 Treatment Tent feed containers will have all required characterization performed, RTR and assay at a minimum, and SPM data validation complete with results recorded in the operating record. The required characterization can be associated with the outer or the inner container. However, if both exist, only characterization associated with the outer container will be reviewed.*

(RPT-NFCS-12, CWR 5)

4.4.1 SPMD: Review container data to check that the drum is acceptable for WMF-635 Treatment Tent processing per INST-OI-91, Drum Re-Overpacking Facility Operations, and the requirements outlined below:

4.4.1.1 Verify in TrackWise that there are **NO** open NCRs against the outer overpack container.

4.4.1.1.1 **IF** the inner 55-gallon container has been assigned an AMWTP container ID, **THEN** ensure that there are **NO** open NCRs against the inner 55-gallon drum.

4.4.1.2 Verify in WTS that the outer overpack container does **NOT** have a Waste Data System (WDS) status.

4.4.1.2.1 **IF** the inner 55-gallon container has been assigned an AMWTP container ID, **THEN** ensure that the inner 55-gallon drum does **NOT** have a WDS status.

4.4.1.3 Verify in WTS that the FGE limit is less than 200 FGE.

(RPT-NFCS-12, CWR 5)

4.4.1.4 Verify in WTS that the outer container, the inner container, and, if present, the rigid liner have been vented.

4.4.1.5 Verify that RTR and assay batches have been validated through SPM
AND that the Task List Status for both is "QC Complete."

4.4.1.6 Verify in WTS that observable liquid is **NOT** ≥ 1% by volume of the 55-gallon drum.

4.4.1.7 Verify in WTS that observable liquid in any internal container does **NOT** exceed 60 mL or 3% by volume of the internal container, whichever is greater.

4.4.1.8 **WHEN** the containers have been approved by AK, **THEN** send Waste Certification the list of approved candidate containers so a standard waste box can be built in accordance with MP-TRUW-8.44, Virtual Standard Waste Box Planning.

4.5 HWMA/RCRA Permit Reviews

4.5.1 ITR Level I Reviewer: Review the A/V record for containers that are candidates for the Pad 2 storage area to ensure that the container is liquid free.

4.5.1.1 Use Form-1932, HWMA/RCRA Permit Review Second Verification, for liquid verification.

OR

4.5.1.2 **IF** performing electronic verification in WTS, **THEN GO TO** Step 4.5.2.

4.5.2 ITR: **WHEN** the A/V review is complete, **THEN** select the applicable disposition for the container.

4.5.2.1 In WTS, perform the following:

4.5.2.1.1 Select the Data Review tab.

4.5.2.1.2 Select Entry Rule Dual Verification.

4.5.2.1.3 Enter the container number,
AND select **ONE** of the following dispositions:

- Verified - NO Liquid
- Verified - Liquid Present
- Unable to Verify.

4.5.3 ITR: E-sign verifying the final disposition of the container.

4.6 Cleanup of RTR Hard Drives

4.6.1 RTR SME (or Designee): Review WTS for "Closed" status of RTR batches.

4.6.2 Ensure that the applicable batches have been downloaded to the R drive.

4.6.3 Ensure that the data quality objectives (DQOs) and Quality Assurance Objectives (QAOs) are satisfactory for all applicable RTR batches.

4.6.4 On each unit (RTR 101 and RTR 106), delete the batch folders that have been downloaded onto the R drive.

4.6.5 On each unit, delete the disk ID folders that are complete and **NOT** currently being used (i.e. Quick Scan and Facility box scans).

4.6.6 Ensure the "Recycle Bin" is empty.

4.6.6.1 **IF** the "Recycle Bin" is **NOT** empty,
THEN select "Empty Recycle Bin."

4.6.7 Defragment the hard drive of each unit after the deletion of the folders, if necessary.

4.7 Reporting of ^{137}Cs and ^{90}Sr in Rocky Flats Waste Streams

NOTE: *RPT-TRUW-07, Determination of Radioisotopic Content in TRU Waste Based on Acceptable Knowledge, specifies that ^{137}Cs and computed ^{90}Sr may be present in some RF waste containers. It further specifies that – based on AK evaluations – an NDA ETR is required when ^{137}Cs and ^{90}Sr are identified during container validation in IDCs other than RF-004 and RF-480.*

4.7.1 NDA ETR: Perform expert review on RF waste containers where ^{137}Cs and ^{90}Sr are reported (other than RF-004 and RF-480).

4.7.1.1 **IF** no ^{137}Cs and ^{90}Sr are determined to be present, **THEN** perform **ONE** of the following:

4.7.1.1.1 Modify the data that will be uploaded to the WTS accordingly.

OR

4.7.1.1.2 **IF** batch data report (BDR) is manual, **THEN** line out, initial, and date.

4.7.1.2 **IF** ^{137}Cs and ^{90}Sr are determined to be present following expert review,
THEN promote the BDR to Level II data validation.

4.7.2 SPMD: **WHEN** ETR has determined that ^{137}Cs and ^{90}Sr are present in RF waste containers with IDCs other than 004 and 480,
THEN notify an AKE.

4.7.3 AKE: Add the container ID and other applicable information to standing AKR-06-376 as directed in AK Discrepancy Report D051A.

4.7.4 SPMD: Ensure that the container reporting ^{137}Cs and ^{90}Sr is added to AKR-06-376
AND include the AKR number in the appropriate comments section of Form-1399, Site Project Manager RA Data Validation Checklist.

4.8 Waste Programs SPM Evaluation/Verification of Type-3 NCRs

NOTE: *Applicable information may be added to a Type-3 characterization NCR by any AMWTP personnel (characterization, validation, 200% review, SME, AK, reconciliation, etc.) involved in the processing or review of data associated with the container identified in the nonconformance report.*

4.8.1 SPM: Access and review the NCR information in TrackWise **AND** verify the appropriate container information from the NCR in WTS, EDMS, or other applicable locations, including any attachments to the NCR.

4.8.2 SPM: **IF** it is necessary to change an NCR that has a status of SPM Verification,
THEN take **ONE** of the following steps:

4.8.2.1 Make the appropriate updates.

OR

4.8.2.2 Add an appropriate comment to the NCR **AND** select "Reject" as the activity type to return the NCR to a status of Awaiting Results.

NOTE: *The actions described in Step 4.8.3 can be completed independently while the NCR has a status of Awaiting Results or in conjunction with activities performed during SPM verification in preparation for NCR closure.*

4.8.3 SPM: Ensure the selected remediation is appropriate.

4.8.3.1 **IF** the assigned remediation is incorrect or incomplete, **THEN** select the appropriate remediation from the "Approved Remediation" drop-down menu based on nonconformance, waste type, available treatment options, or other applicable information as appropriate.

4.8.3.1.1 Update the "Waste Programs Evaluation/Verification" comment field with summary information as appropriate.

NOTE: *Advancement of the NCR for QA closure cannot continue until the appropriate remediation is available in TrackWise.*

4.8.3.2 **IF** the assigned remediation is incorrect
AND a correct remediation has been determined, which is **NOT** available for use in TrackWise,
THEN notify QA personnel and request that the Waste Programs SPM evaluated and approved remediation be added to the "Approved Remediation" drop-down selection.

4.8.4 SPM: **WHEN** the remediation is accurate
AND the information in the NCR is correct and adequate
AND appropriate supporting documentation, if applicable, has been included,
THEN add an SPM verification statement concerning the completion of corrective actions for the nonconforming condition.

4.8.5 SPM: Select "SPM Verification" in the Activity Type field to move the NCR from Awaiting Results to QA Closure.

NOTE: *Further processing/closure of MLLW/LLW NCRs described below will be completed in accordance with PD-LLW-03, Low-Level Waste/Mixed Low-Level Waste Disposition Program Description, and final closure in accordance with MP-Q&SI-5.4.*

4.8.6 **IF** the identified nonconformance is associated with an MLLW/LLW container **AND** will be resolved by an offsite TSDF,
THEN notify appropriate MLLW/LLW personnel
AND select "Approved MLLW/LLW TSDF" as the disposition.

4.9 Batch Validation for Treatment Facility (WMF-676) Acceptance

NOTE: *For an ASSAY or RTR batch generated in WMF-634 and comprised exclusively of non-direct feed debris containers, the characterization data will not be used for WIPP certification purposes and validation (both ITR and SPM) is not required.*

4.9.1 SPM or ITR: Review container IDCs associated with the ASSAY or RTR BDR in question.

4.9.1.1 **IF** all of the containers in the batch are debris
AND none of the containers are designated as direct feed,
THEN do **NOT** perform the validation.

4.9.1.2 Mark the checklist questions associated with the batch N/A in WTS.

4.9.1.3 Include an appropriate comment indicating no validation was performed, why it was not performed, and that the batch data is not associated with WIPP certifiable data, on the checklist, and as a batch comment.

4.10 SPM Abnormal Event Notification

NOTE: *This activity is necessary to ensure appropriate and timely information is presented to operations management concerning potentially reportable events that could adversely affect the health and safety of the public or the workers, the environment, the intended purpose of Department of Energy (DOE) facilities, or the credibility of DOE and AMWTP.*

4.10.1 SPM: Upon identification of an abnormal or suspected abnormal event or condition, promptly notify TRU Programs management **AND** either the nuclear facility manager or the plant shift manager of the event.

4.10.1.1 Record and/or archive all pertinent information concerning the event, including details concerning discovery.

5.0 DEFINITIONS

Internal container. A container inside the outermost container examined during radiography or VE. Drum liners, liner bags, plastic bags used for contamination control, capillary-type labware, and debris not designed to hold liquid at the time of original waste packaging are not internal containers.

WTS task list. WTS function for tracking a container's required tasks and current disposition (e.g., characterization, inspection).

6.0 REFERENCES

(1) 1291-2013-011, Increase Volume of Allowable Liquids through Supercompactor

(2) AMWTP HWMA/RCRA Permit

(3) Discrepancy Report D051A – Assessment of the Presence of 137Cs in Rocky Flats Plant Waste, Carolyn Abbott, CKA-020-2006, Rev 1, 4/10/2006

(4) INST-FOI-26, AMWTF Receipt, Storage, and Container Management

(5) INST-OI-91, Drum Re-Overpacking Facility Operations

(6) LST-EC&P-11, AMWTP HWMA/RCRA Permit WMF-676 Waste Management Criteria

(7) MP-DOCS-18.2, Records Management

(8) MP-Q&SI-5.4, Identification of Nonconforming Conditions

(9) MP-TRUW-8.44, Virtual Standard Waste Box Planning

(10) PD-LLW-03, Low-Level Waste/Mixed Low-Level Waste Disposition Program Description

(11) RPT-NFCS-03, Criticality Safety Evaluation for Supercompactor Operations

(12) RPT-NFCS-07, Criticality Safety Evaluation for the AMWTF

(13) RPT-NFCS-12, Criticality Safety Evaluation Involving WMF-635 Drum Repack Facility Operations

(14) RPT-TRUW-07, Determination of Radioisotopic Content in TRU Waste Based on Acceptable Knowledge

(15) RPT-TRUW-12, AMWTP Waste Stream Designations

(16) RPT-TRUW-83, Acceptable Knowledge Summary for Supercompacted Debris Waste

7.0 RECORDS

Records generated by this procedure are classified in accordance with the table below and dispositioned in accordance with MP-DOCS-18.2, Records Management.

Record Description	Classification
INST-TRUW-8.13.1, Case File	Misc. Other Record/A16-1.2/Destroy 5 years after submittal or being superseded.
Form-1399, Site Project Manager RA Data Validation Checklist	Lifetime WIPP/ENV1-J-1/Turnover to CBFO at end of project.
Form-1932, HWMA/RCRA Permit Review Second Verification	Facility Operating Record/ ENV2-a-1-a/Destroy 5 years after life of facility.
Form-2084, Quick Scan Radiography Container Screening Log Sheet	Facility Operating Record/ ENV2-a-1-a/Destroy 5 years after life of facility.
Results of the 423/WAC check	Not a record. Discard after use.
List of containers approved for compaction	Not a record. Discard after use.

8.0 EXHIBITS

None

9.0 APPENDICES

Appendix A – Revision Log

Appendix A –
Revision Log

Revision Number	Date Approved	Pages Affected	Description of Revision
0	04/25/07	All	DCR-5828. Create document to provide SPO Guidance.
1	07/30/07	Various	DCR-6199. Minor updates and clarifications. Made minor editorial/formatting changes throughout for consistency to MP-DOCS-18.4.
2	1/17/08	Various	DCR-6660. Incorporate Section 4.6, "Transfer Historical Data for Liner Pulls." Updated records and reference sections. Clarify Section 4.4 & 4.5.
3	02/05/08	Various	DCR-6729. Incorporate SPO Guidance information in accordance with CAR 35258, Action Item 1.
4	01/28/09	Various	DCR-7512. Added new Sections 4.3, 4.7, 4.8, 4.9, and 4.10. Revised Sections 4.5 and 4.6. Removed references to MP-TRUW-8.3 and made numerous editorial corrections. Implemented SCR 3410. Periodic review.
5	09/17/09	Various	DCR-7925. Changes made to process containers through the Treatment Facility. Editorial changes per MP-DOCS-18.1, Developing Written Instructions.
6	11/12/09	Various	DCR-8835. Changes made to satisfy AI 48313 associated with CAR 48277. Revised to ensure requirements are aligned with the facility permit and INST-FOI-26, Supercompactor Waste Acceptance Criteria.
7	02/25/10	Various	DCR-9040. Added new section addressing AK "in process" container guidance. Modified AK inspection process. Removal of >1-in. of liquid limit and increase to 5% liquid in MLLW DF containers. Added definitions. Minor editorial changes throughout.
8	06/02/10	Various	DCR-9161. Added new Sections 4.4, 4.15, and 4.16. Deleted Section 4.13.

Revision Number	Date Approved	Pages Affected	Description of Revision
9	08/26/10	Various	DCR-9379. Rewrite to move Sections 4.7 through 4.11 to INST-TRUW-8.13.3. Made additional changes to describe recent WIPP permit changes. Replaced RPT-TRUW-30 with RPT-TRUW-83, and replaced B510 with B510.1.
10	12/22/10	Various	DCR-9692. Changes made to correct steps in process.
11	12/23/10	Various	DCR-9752. Replaced reference from RPT-OPS-041 to INST-FOI-26 throughout the procedure.
12	01/18/11	Various	DCR-9609. Add LST-EC&P-11 to document to capture HWMA/RCRA Permit WAC requirements removed from INST-FOI-26.
13	08/23/11	Page 4	DCR-10154. Added steps 4.1.1.1.2 through 4.1.1.1.2.2 to address CAR 61367.
14	01/25/12	Pg 19	DCR-10733. Added section for 634 ASY and RTR BDRs associated with debris waste. Applied ITG-BLUESHEET-081, where applicable.
15	11/29/12	Pg 21	DCR-10791. Incorporated verbiage for TRU direct feed waste.
16	02/19/13	Various	DCR-12052. Incorporated changes for permit modifications and upgrades the RTR and training.
17	04/11/13	Various	DCR-12211. Made changes to allow for super compaction of aerosol cans and containerized liquid.
18	06/17/13	4.3.1.4	DCR-12509. Changes made to incorporate additional requirements for MLLW containers and resolve CAR-78417.
19	09/09/13	Various	DCR-12705. Changes made to support SCR 4487.

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

RTR Analysis Report

Date: 02-Oct-2013

Time: 05:41

Batch Id RTR13-00023 **Container Id** 10022399 **Analysis Id** 0000087037

Container Type A drum, 55 Gallon Drum (17H) **Analysis Status** Pass

RTR Date 01-FEB-2013 17:15 **Gross Weight** 238.140 Lbs **Net Weight** 163.140 Lbs

Equipment Z-213-101 **Waste Matrix Code** S5420 **IDC** BL-020 Non-compressible, Non-combustible

Recording Id 1RTR13-00019 **Procedure Id** INST-OI-12 **Revision** 49 **Approval Level** SPM

Is Test Pattern Resolution Ok? Yes **Start Side** A **Replicate** No **OIO** No

Audio Visual Ok? Yes **Operator** DSUMNERS

Result Comment Remaining waste appears to be primarily other inorganic material, absorbed, neutralized liquids, absorbal.
Disregard the above comment. The waste appears to be plastic beakers and containers.
Rework to correct waste parameters. ESO 02/20/13

Package

IDC Correct Yes **Recommended IDC** **Summary Category** S5000

Idc Change Reason

Rigid Liner Present? Yes **LinerType** TYPE I

Liner Punctured? Yes **Sharp Objects?** No

Liner Lid Present? Yes **Sharp Objects Are Protected?** Yes

Liner Lid Deformed? No **Layers Of Confinement** 1

Fill Factor 85

Bag Closure Method Twisted and Taped

Liquids

Liquid Present? Yes **Internal Container with Liquid** Yes

Internal Container with Liquid 1.52 pints **LA Candidate** No

Liquid Between Liner & Drum 0 pints **Containerized Liquid**

Total Liquid Amount 1.58 pints **Containerized Liquid Amt** 0 pints

Other Liquids .06 pints **Comment** Container on top level with .09 pints containeron 3 level with .03 pints
2 containers at bottom with .4 and 1 pint respectively
.03 pints in bagging at bottom.
.03 pints in bagging at second level.

Prohibited Liquids Present Yes **Comment** Containerized>60ml liquid

Contents-Drum or Box

	Value	Comment		Value	Comment
Lead?	No		Mercury Present?	No	
Wet Cell Batteries?	No		Explosives?	No	
Prohibited Compressed Gases? Aerosol Cans?	No		PCBs Present?	No	
			PCB Mass (lbs)	0	
Non-Mixed Hazardous Waste Present?	No		Sealed Containers Over 4L?	No	

Non-Radionuclide Pyrophoric Materials Present? No

Waste exhibiting the characteristics of Ignitability, Corrosivity or Reactivity Present? No

Wastes incompatible with backfill, seal and panel closure materials, container and packaging materials,shipping container or other wastes? No

Impenetrable Dense Objects? No

Waste Material Items

Packaging Materials

Material Item	Quantity	Unit	Unit Wt(lbs)	Item Wt(lbs)
90 mil liner	1.000	EACH	16.000	16.000

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

RTR Analysis Report

Date: 02-Oct-2013

Time: 05:41

Batch Id RTR13-00023	Container Id 10022399	Analysis Id 0000087037

Waste Items byWeight

Material Item	Quantity	Unit	Unit Wt(lbs)	Item Wt(lbs)
absorbal	1.000	EACH	18.000	18.000
36 metal juice cans	36.000	EACH	0.750	27.000
Plastic bag for waste	36.000	EACH	0.250	9.000

Waste Items by Volume

Material Item	Quantity	Unit	Unit Wt(lbs)	Item Wt(lbs)
Liquids for Other Inorganics	1.580	PINTS	1.000	1.580

Waste Parameters

Waste Parameter	Remaining Weight %	Actual Weight Lbs
Iron-based Metals/Alloys	0.000	27.000
Aluminum-based Metals/Alloys	0.000	0.000
Other metals	0.000	0.000
Other Inorganic Materials	0.000	19.580
Cellulosics	0.000	0.000
Rubber	0.000	0.000
Plastic (Waste Materials)	100.000	116.560
Inorganic matrix	0.000	0.000
Organic matrix	0.000	0.000
Soils/gravel	0.000	0.000
Steel (packaging materials)	0.000	59.000
Plastic (packaging materials)	0.000	16.000
Cellulosics Packaging	0.000	0.000

Analysis Esignature History

Esig Approval Id	User Id	Esignature Date	Comment
2474268	SOLDHAM	20-FEB-2013 11:08	
2460652	DSUMNERS	01-FEB-2013 17:15	

----End of RTR Analysis Report----

NON-CONFORMANCE REPORT

WIPP DATA - RTR

NCR #: 75555

Title: RTR Characterization	
Originator: Sumners, Davey	**Date Opened:** 02/02/13
Tag Applied: Yes	**Responsible Dept:** Plant Manager
Container ID: 10022399	**Batch #:** RTR13-00023
Characterization Problem: Liquids	

LIQUIDS IDENTIFIED

Observable Liquid shall be less than 1% by Volume of the outermost container. Equal/Greater than 1% Volume?	
Internal containers with more than 60 mL or 3% by Volume Observable Liquid is Prohibited. Greater than 60ML/3% Volume?	YES
Containers with Hazardous Waste Number (HWN) U134 assigned shall have no observable liquid. Observable liquid identified?	
Originator Sign By: Davey Sumners	**Originator Sign Date:** 02/01/13

Production Comments: **Approved Remediation:** **MLLW Supercompaction**

2 containers at bottom with >60ml liquid, 1 at 1 pint, the second at .4 pints.
After review of the A/V recording the liquid in this container appears to be < 5% by volume and not a prohibited amount of liquid for DF to the Supercompactor. There did not appear to be any large structural component that would inhibit full compaction of this container.
RTR ITR Jay Simonson, 07/18/2013

Performed By: Jay Simonson	**Performed Date:** 07/18/13

Waste Programs Evaluation/Verification:

SPM Verification: This container has been processed through RTR and Assay characterization. The data has been reviewed and determined to be acceptable for MLLW direct feed supercompaction. SPM has further verified that the task list has been set to a Process Code of SC, and supercompaction is shown as a required task for this container. This NCR is recomended for closure in preparation for supercompaction of this waste. KB 7/25/13

SPM Verification Complete By: Kenny Burnside	**SPM Verification Complete Date:** 07/25/13
MLLW/LLW Verification Complete By:	**MLLW/LLW Verification Complete Date:**

QA Closure Comments:

QA Verification: Verified in WTS the container has been successfully processed through RTR and Assay characterization. The data has been reviewed and determined acceptable for MLLW direct feed supercompaction. Verified that the task list has been set to a Process Code of SC and supercompaction is shown as a required task for this container. No further action is required.
C. Robison 07-25-13

QA Add'l Action Reqd By:	**QA Add'l Action Reqd Date:**
QA Verification Complete By: Camille Robison	**QA Verification Comp Date:** 07/25/13

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

Radioassay Data Sheet

Date: 02-Oct-2013

Time: 05:44

Batch Type	Assay		
Batch Id	ASY13-00510	Open Date 31-JAN-13 13:08:30	Close Date 01-FEB-13 08:57:14
Batch Status	AP		
Equipment Id	Z-211-102	Drum Assay Equipment Left	
Test Facility	Idaho AMWTP		

Container Id 10022399

ALL TRU ISOTOPES LESS THAN OR EQUAL TO THE LLD

Type: A drum, 55 Gallon Drum (17H) Calib Container?: N

Gen-IDC: BL-020 Non-compressible, Non-combustible

Equip ID: Z-211-102 Analysis Id: 0000322695 Machine Seq: 131210

Assay Date: 31-JAN-13 20:08:18 Scale Gross Wt lbs: 238.14 Scale Gross Error lbs: 1.32

Operator: J DONNELLY Analysis Status: Pass

Expert Rev?: N Rev Outcome: ACCEPT Independent Tech. Reviewer: SBOUDREAU

Qc Type: O Qc Desc: Original Procedure: INST-OI-14 Proc Rev: 31

All errors reported at 1-sigma

Isotope	Mass (g)	Mass Error (g)	Activity (Ci)	Activity Error (Ci)	MDA (Ci)
AM241	.00E+00	.00E+00	.00E+00	.00E+00	7.34E-03
CS137	.00E+00	.00E+00	.00E+00	.00E+00	3.57E-07
NP237	.00E+00	.00E+00	.00E+00	.00E+00	1.00E-06
PU238	.00E+00	.00E+00	.00E+00	.00E+00	5.37E-04
PU239	.00E+00	.00E+00	.00E+00	.00E+00	1.95E-02
PU240	.00E+00	.00E+00	.00E+00	.00E+00	4.32E-03
PU241	.00E+00	.00E+00	.00E+00	.00E+00	3.08E-02
PU242	.00E+00	.00E+00	.00E+00	.00E+00	5.61E-07
SR90	.00E+00	.00E+00	.00E+00	.00E+00	3.92E-07
TH232	1.08E+02	2.76E+01	1.20E-05	3.07E-06	2.06E-06
U232	7.87E-06	1.96E-06	1.70E-04	4.23E-05	1.18E-06
U233	1.16E+00	2.98E-01	1.13E-02	2.90E-03	4.42E-03
U234	.00E+00	.00E+00	.00E+00	.00E+00	.00E+00
U235	.00E+00	.00E+00	.00E+00	.00E+00	1.13E-06
U238	.00E+00	.00E+00	.00E+00	.00E+00	3.21E-05

Isotope Count: 15

Passive File: Z-211-102_20130131200120_10022399_p

Active File:

Decay Heat:	3.36E-04	Watts	Decay Heat Error:	1.74E-04	Watts
Pu239 Equiv. Activity:	2.91E-03	Ci	Pu239 Equiv. Activity Error:	4.96E-03	Ci
Pu239 FGE:	1.05E+00	g	Pu239 FGE Error:	2.80E-01	g

Gross Wt lbs: 238.14 Gross Error lbs: 1.32 Net Wt lbs: 163.14

Total Alpha Activity Ci:	1.15E-02	Error Ci:	5.70E-03
TRU Alpha Activity Ci:	.00E+00	Error Ci:	4.90E-03
TRU Alpha Activity Concentration Ci/g:	.00E+00	Error Ci/g:	.00E+00

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

Radioassay Data Sheet

Date: 02-Oct-2013

Time: 05:44

Batch Type	Assay				
Batch Id	ASY13-00510	Open Date	31-JAN-13 13:08:30	Close Date	01-FEB-13 08:57:14
Batch Status	AP				
Equipment Id	Z-211-102	Drum Assay Equipment Left			
Test Facility	Idaho AMWTP				

Esignature History

Esig Approval Id	User Id	Approval level	Esignature Date	Comment
2460038	JDONNELLY	ASYO	31-JAN-13 20:31:56	
2467158	SBOUDREAU	ITR	10-FEB-13 07:19:37	Set Review Outcome
2467159	NSTONER	ITR	10-FEB-13 07:19:38	Set Review Outcome
2467160	NSTONER	ITR	10-FEB-13 07:19:46	Expert Review
2467229	SBOUDREAU	ITR	10-FEB-13 09:11:00	Accept assay.

Analysis Comments

Container: 10022399 *Equipment Id: Z-211-102* *Analysis Id: 0000322695*

Comments	Last Updated By	Last Update Date
Assay completed per OI-14 Revision 31.	JDONNELLY	31-JAN-13 20:31:56
Density outside of range or fill factor < 100%: Review of data indicates that the reported result is acceptable. Spectral review confirms <LLD.	SBOUDREAU	10-FEB-13 09:11:00

----- End of Radioassay Data Sheet -----

Container Content Distribution Report

Report Date: 02-OCT-2013 05:49:37

Queried Container ID: *10022399* **Container Type Code:** *A* *drum, 55 Gallon Drum (17H)*

Source Containers	Pucks	Product Drums
N/A	*10022399*	*BN10497054*

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

RTR Analysis Report

Date: 02-Oct-2013

Time: 06:16

Batch Id RTR13-00076 **Container Id** 10008722 **Analysis Id** 0000088169

Container Type A drum, 55 Gallon Drum (17H) **Analysis Status** Pass

RTR Date 29-MAR-2013 15:18 **Gross Weight** 213.885 Lbs. **Net Weight** 138.885 Lbs

Equipment Z-213-101 **Waste Matrix Code** S5420 **IDC** BL-020 Non-compressible, Non-combustible

Recording Id IRTR13-00053 **Procedure Id** INST-OI-12 **Revision** 50 **Approval Level** SPM

Is Test Pattern Resolution Ok? Yes **Start Side** A **Replicate** No **OIO** No

Audio Visual Ok? Yes **Operator** CTIEGS

Result Comment Remaining waste appears to contain metal boxes, cans, filter boxes, misc metals. Rework answered unvented aerosol cans question. F.K. 05/13/13

Package

IDC Correct Yes **Recommended IDC** **Summary Category** S5000

Idc Change Reason

Rigid Liner Present? Yes **LinerType** TYPE I

Liner Punctured? No **Sharp Objects?** No

Liner Lid Present? Yes **Sharp Objects Are Protected?** Yes

Liner Lid Deformed? No **Layers Of Confinement** 2

Fill Factor 95

Bag Closure Method Twisted and Taped

Liquids

Liquid Present? No **Internal Container with Liquid** No

Internal Container with Liquid 0 pints **LA Candidate** No

Liquid Between Liner & Drum 0 pints **Containerized Liquid**

Total Liquid Amount 0 pints **Containerized Liquid Amt** 0 pints

Other Liquids 0 pints **Comment**

Prohibited Liquids Present No **Comment**

Contents-Drum or Box

	Value	Comment		Value	Comment
Lead?	No		Mercury Present?	No	
Wet Cell Batteries?	No		Explosives?	No	
Prohibited Compressed Gases?	Yes	aerosol can middle of waste	PCBs Present?	No	
Aerosol Cans?	Yes	Aerosol can in the middle of the waste.	PCB Mass (lbs)	0	
Non-Mixed Hazardous Waste Present?	No		Sealed Containers Over 4L?	Yes	cans with lids, glass bottle

Non-Radionuclide Pyrophoric Materials Present? No

Waste exhibiting the characteristics of Ignitability, Corrosivity or Reactivity Present? No

Wastes incompatible with backfill, seal and panel closure materials, container and packaging materials,shipping container or other wastes? No

Impenetrable Dense Objects? No

Waste Material Items

Packaging Materials

Material Item	Quantity	Unit	Unit Wt(lbs)	Item Wt(lbs)
90 mil liner	1.000	EACH	16.000	16.000

Waste Items byWeight

Material Item	Quantity	Unit	Unit Wt(lbs)	Item Wt(lbs)
plastic sheeting, jars.	1.000	EACH	2.000	2.000
glass bottle >4 liters sealed	1.000	EACH	3.000	3.000
>4 liter can	1.000	EACH	3.000	3.000
Plastic bag for waste	2.000	EACH	0.250	0.500
Aerosol Can	1.000	EACH	0.240	0.240

Waste Items by Volume

Material Item	Quantity	Unit	Unit Wt(lbs)	Item Wt(lbs)
Vermiculite (95 gm/liter) .125 lb/pint	16.000	PINTS	0.125	2.000

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

RTR Analysis Report

Date: 02-Oct-2013

Time: 06:16

Batch Id RTR13-00076	Container Id 10008722	Analysis Id 0000088169

Waste Parameters

Waste Parameter	Remaining Weight %	Actual Weight Lbs
Iron-based Metals/Alloys	100.000	131.385
Aluminum-based Metals/Alloys	0.000	0.000
Other metals	0.000	0.000
Other Inorganic Materials	0.000	5.000
Cellulosics	0.000	0.000
Rubber	0.000	0.000
Plastic (Waste Materials)	0.000	2.500
Inorganic matrix	0.000	0.000
Organic matrix	0.000	0.000
Soils/gravel	0.000	0.000
Steel (packaging materials)	0.000	59.000
Plastic (packaging materials)	0.000	16.000
Cellulosics Packaging	0.000	0.000

Analysis Esignature History

Esig Approval Id	User Id	Esignature Date	Comment
2541810	FKUCK	13-MAY-2013 15:06	
2501631	CTIEGS	29-MAR-2013 15:18	

End of RTR Analysis Report

NON-CONFORMANCE REPORT

WIPP DATA - RTR

NCR #: 76662

Title: RTR Characterization	
Originator: Tiegs, Cindy	**Date Opened:** 03/29/13
Tag Applied: Yes	**Responsible Dept:** Plant Manager
Container ID: 10008722	**Batch #:** RTR13-00076
Characterization Problem: Pressurized Container	

LIQUIDS IDENTIFIED

Observable Liquid shall be less than 1% by Volume of the outermost container. Equal/Greater than 1% Volume?

Internal containers with more than 60 mL or 3% by Volume Observable Liquid is Prohibited. Greater than 60ML/3% Volume?

Containers with Hazardous Waste Number (HWN) U134 assigned shall have no observable liquid. Observable liquid identified?

Originator Sign By: Cindy Tiegs	**Originator Sign Date:** 03/29/13

Production Comments: **Approved Remediation:** **MLLW Supercompaction**

Aerosol like can in can middle of waste.
After review of the A/V recording. The aerosol can in this container appears to be empty therefore is acceptable for DF to the supercompactor. There did not appear to be any large structural component that would inhibit full compaction of this container Recommending closure of this NCR. MSorenson 07/19/2013

Performed By: Wesley Skaar	**Performed Date:** 07/19/13

Waste Programs Evaluation/Verification:

SPM Verification: This container has been processed through RTR and Assay characterization. The data has been reviewed and determined to be acceptable for MLLW direct feed supercompaction. As noted above, RTR review has been completed and there is no structural component that will prevent compaction. This container is suitable for suprecompaction. SPM has further verified that the task list has been set to a Process Code of SC, and supercompaction is shown as a required task for this container. This NCR is recomended for closure in preparation for supercompaction of this waste. W Skaar 7/19/13

SPM Verification Complete By: Wesley Skaar	**SPM Verification Complete Date:** 07/19/13
MLLW/LLW Verification Complete By:	**MLLW/LLW Verification Complete Date:**

QA Closure Comments:

QA Verification: Verified in WTS the container has been successfully processed through RTR and Assay characterization. The data has been reviewed and determined acceptable for MLLW direct feed supercompaction. Verified that the /ask list has been set to a Process Code of SC and supercompaction is shown as a required task for this container. No further action is required. G. LaBruyere 07/21/13

QA Add'l Action Reqd By: George Byram	**QA Add'l Action Reqd Date:** 07/18/13
QA Verification Complete By: Gary Labruyere	**QA Verification Comp Date:** 07/21/13

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

Radioassay Data Sheet

Date: 02-Oct-2013

Time: 06:18

Batch Type	Assay		
Batch Id	ASY13-01170	Open Date 25-MAR-13 08:09:59	Close Date 26-MAR-13 07:56:35
Batch Status	AP		
Equipment Id	Z-211-102	Drum Assay Equipment Left	
Test Facility	Idaho AMWTP		

Container Id 10008722

ALL TRU ISOTOPES LESS THAN OR EQUAL TO THE LLD

Type: A drum, 55 Gallon Drum (17H) Calib Container?: N

Gen-IDC: BL-020 Non-compressible, Non-combustible

Equip ID: Z-211-102 Analysis Id: 0000326332 Machine Seq: 132357

Assay Date: 25-MAR-13 13:42:47 Scale Gross Wt lbs: 213.89 Scale Gross Error lbs: 1.32

Operator: F KUCK Analysis Status: Pass

Expert Rev?: N Rev Outcome: ACCEPT Independent Tech. Reviewer: JSEAMANS

Qc Type: O Qc Desc: Original Procedure: INST-OI-14 Proc Rev: 31

All errors reported at 1-sigma

Isotope	Mass (g)	Mass Error (g)	Activity (Ci)	Activity Error (Ci)	MDA (Ci)
AM241	.00E+00	.00E+00	.00E+00	.00E+00	1.12E-02
CS137	.00E+00	.00E+00	.00E+00	.00E+00	5.53E-07
NP237	.00E+00	.00E+00	.00E+00	.00E+00	1.55E-06
PU238	.00E+00	.00E+00	.00E+00	.00E+00	8.21E-04
PU239	.00E+00	.00E+00	.00E+00	.00E+00	2.98E-02
PU240	.00E+00	.00E+00	.00E+00	.00E+00	6.61E-03
PU241	.00E+00	.00E+00	.00E+00	.00E+00	4.68E-02
PU242	.00E+00	.00E+00	.00E+00	.00E+00	8.59E-07
SR90	.00E+00	.00E+00	.00E+00	.00E+00	6.08E-07
TH232	1.20E+02	2.62E+01	1.34E-05	2.92E-06	1.58E-06
U232	2.25E-05	4.82E-06	4.87E-04	1.04E-04	1.97E-06
U233	3.60E+00	7.81E-01	3.51E-02	7.62E-03	8.24E-03
U234	.00E+00	.00E+00	.00E+00	.00E+00	.00E+00
U235	.00E+00	.00E+00	.00E+00	.00E+00	1.77E-06
U238	.00E+00	.00E+00	.00E+00	.00E+00	5.20E-05

Isotope Count: 15

Passive File: Z-211-102_20130325113959_10008722_p

Active File:

Decay Heat:	1.04E-03	Watts	Decay Heat Error:	2.99E-04	Watts
Pu239 Equiv. Activity:	9.01E-03	Ci	Pu239 Equiv. Activity Error:	6.75E-03	Ci
Pu239 FGE:	3.24E+00	g	Pu239 FGE Error:	7.11E-01	g

Gross Wt lbs: 213.89 Gross Error lbs: 1.32 Net Wt lbs: 138.89

Total Alpha Activity Ci: 3.56E-02 Error Ci: 1.00E-02

TRU Alpha Activity Ci: .00E+00 Error Ci: 6.46E-03

TRU Alpha Activity Concentration Ci/g: .00E+00 Error Ci/g: .00E+00

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

Radioassay Data Sheet

Date: 02-Oct-2013

Time: 06:18

Batch Type	Assay		
Batch Id	ASY13-01170	Open Date 25-MAR-13 08:09:59	Close Date 26-MAR-13 07:56:35
Batch Status	AP		
Equipment Id	Z-211-102	Drum Assay Equipment Left	
Test Facility	Idaho AMWTP		

Esignature History

Esig Approval Id	User Id	Approval level	Esignature Date	Comment
2498568	FKUCK	ASYO	25-MAR-13 14:00:49	
2511088	SBOUDREAU	ITR	13-APR-13 08:18:02	Set Review Outcome
2511694	SBOUDREAU	ITR	15-APR-13 07:20:03	Expert Review
2511835	JSEAMANS	ITR	15-APR-13 13:27:45	Accept assay.

Analysis Comments

Container: 10008722 *Equipment Id: Z-211-102* *Analysis Id: 0000326332*

Comments	Last Updated By	Last Update Date
Operating to OI-14 Rev. 31.	FKUCK	25-MAR-13 14:00:49
Density outside of range or fill factor < 100%: Review of data indicates that the reported result is acceptable. Accept assay.	JSEAMANS	15-APR-13 13:27:45

----- End of Radioassay Data Sheet -----

Container Content Distribution Report

Report Date: 02-OCT-2013 06:20:36

Queried Container ID: *10008722* **Container Type Code:** *A drum, 55 Gallon Drum (17H)*

Source Containers	Pucks	Product Drums
N/A	*10008722*	*BN10497054*

POS - Process Optimization
- FGE
- nCi/TAAC
- PeCi
- Puck Height

BN10497054 Pucks 10022399 and 10008722

DMS / WTS / Independent Technical Reviewer / DENISE HE - [Supercompactor Load Out v1.64]

File Edit General Offsite Waste AMWTP ICS Data Review MLLW Sol Shipments Reports POS Facility Admin Navig Offsite Shipping Help Window

Product Drum ID: BN10497054 | 100 | FOR NEW DRUM - 100
Product Drum Loc.: 636- TBA/RE, PAD 1, WAQ
IDC: BN-702 | IDC Description: MLLW Supercompacted Debris
Operator 1: RON THOMPSON
Show Drum At: BTP1 | BTP2
Offsite Waste? N
Source Containers: N/A
Analysis ID: 0000309055
Procedure: INST-FOI-20
Proc Rev: 39
Closure Date: 28-Jul-2013 02:17:38
LLD: DFMLLW

Release Drum | E-Sign & Save | E-Sign History | NCR (0) | Task List | Filters

Characterization | Puck Detail | General | Liquid | Contents 1 | Contents 2 | Waste Summary | EPA Codes | Closure

Total Weight (Lbs)	808.55		
Total Heat (Watts)	0.001376232000000000		
Total PU239 Equivalent TRU Alpha Activity (PeCi)	0.011920000000		
Total TRU Alpha Activity Concentration (nCi/g)	0.000000000000	Error(nCi/g)	0.000000000000
Total FGE (grams)	4.290000000000	Error (grams)	0.764556080350

DMS / WTS / Independent Technical Reviewer / DENISE HE - [Supercompactor Load Out v1.64]

File Edit General Offsite Waste AMWTP ICS Data Review MLLW Sol Shipments Reports POS Facility Admin Navig Offsite Shipping Help Window

Product Drum ID: BN10497054 | 100 | FOR NEW DRUM - 100
Product Drum Loc.: 636- TBA/RE, PAD 1, WAQ
IDC: BN-702 | IDC Description: MLLW Supercompacted Debris
Operator 1: RON THOMPSON
Show Drum At: BTP1 | BTP2
Offsite Waste? N
Source Containers: N/A
Analysis ID: 0000309055
Procedure: INST-FOI-20
Proc Rev: 39
Closure Date: 28-Jul-2013 02:17:38
LLD: DFMLLW

Release Drum | E-Sign & Save | E-Sign History | NCR (0) | Task List | Filters

Characterization | Puck Detail | General | Liquid | Contents 1 | Contents 2 | Waste Summary | EPA Codes | Closure

	AMWTP Puck ID	Puck Height (inches)	Puck Order	LLD	Liner	Source Containers
Details	10022399	7.01	1	YES	YES	N/A
Details	10008722	5.617	2	YES	YES	N/A
Details	10032330	5.487	3	YES	YES	N/A
Details						
Details						
Details						
Details						
Details						
Details						

Total Height (inches): 19.11

Cont. BN10497054 Pucks 10022399 and 10008722

DMS WTS / Independent Technical Reviewer / DENISE HE [Supercompactor Load Out v1.64]

File Edit General Offsite Waste AMWTP ICS Data Review MLLW Soil Shipments Reports POS Facility Admin Navig Offsite Shipping Help Window

Product Drum ID: BN10497054 | 100 | FOR NEW DRUM - 100
Product Drum Loc.: 638- TBA/RE, PAD 1, WAQ
IDC: BN-702 | IDC Description: MLLW Supercompacted Debris
Operator 1: RON THOMPSON

Show Drum At: BTP1 | BTP2
Offsite Waste? N
Source Containers: N/A

Analysis ID: 0000309055
Procedure: INST-FOI-20
Proc Rev: 39
Closure Date: 26-Jul-2013 02:17:38
LLD: DFMLLW

Release Drum | E-Sign & Save | E-Sign History | NCR (0) | Task List | Filters

Characterization | Puck Detail | General | Liquid | Contents 1 | Contents 2 | Waste Summary | EPA Codes | Closure

Rigid Liner Present? [illegible]
Liner Punctured?
Liner Type
Layers Of Pohlcans: 0
Fill Factor: 42 %

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File Edit General Offsite Waste AMWTP ICS Data Review MLLW Soil Shipments Reports POS Facility Admin Navig Offsite Shipping Help Window

Product Drum ID: BN10497054 | 100 | FOR NEW DRUM - 100
Product Drum Loc.: 638- TBA/RE, PAD 1, WAQ
IDC: BN-702 | IDC Description: MLLW Supercompacted Debris
Operator 1: RON THOMPSON

Show Drum At: BTP1 | BTP2
Offsite Waste? N
Source Containers: N/A

Analysis ID: 0000309055
Procedure: INST-FOI-20
Proc Rev: 39
Closure Date: 26-Jul-2013 02:17:38
LLD: DFMLLW

Release Drum | E-Sign & Save | E-Sign History | NCR (0) | Task List | Filters

Characterization | Puck Detail | General | Liquid | Contents 1 | Contents 2 | Waste Summary | EPA Codes | Closure

Liquid In Pucks: Removed | 10022399: Container on top level with .09 pintscor

Liquid Between Liner and Drum	0.00	pints
Other Liquids	0.06	pints
Containerized Liquid	0.00	pints
Internal Container with Liquid	1.52	pints
Total Liquid Removed	1.58	pints

Full Text

10022399: Container on top level with .09 pints
containeron 3 level with .03 pints
2 containers at bottom with .4 and 1 pint respectively
.03 pints in bagging at bottom.
.03 pints in bagging at second level.

Cont. BN10497054 Pucks 10022399 and 10008722

DMS - WTS - Independent Technical Reviewer - DENISE HEE - [Supercompactor Load Out v1.64]

File Edit General Offsite Waste AMWTP ICS Data Review MLLW Soil Shipments Reports POS Facility Admin Navig Offsite Shipping Help Window

Product Drum ID: BN10497054 | 100 | FOR NEW DRUM - 100
Product Drum Loc.: 636- TBA/RE, PAD 1, WAQ
IDC: BN-702 | IDC Description: MLLW Supercompacted Debris
Operator 1: RON THOMPSON

Show Drum At: BTP1 | BTP2
Offsite Waste? N
Source Containers: N/A

Analysis ID: 0000309055
Procedure: INST-FOI-20
Proc Rev: 39
Closure Date: 28-Jul-2013 02:17:38
LLD: DFMLLW

Release Drum | E-Sign & Save | E-Sign History | NCR (0) | Task List | Filters

Characterization | Puck Detail | General | Liquid | Contents 1 | Contents 2 | Waste Summary | EPA Codes | Closure

Sharp Objects? [illegible] Are Sharp Objects Protected? Yes

(Comments are required to the right of each "Yes" answer)

Compressed gas present? Removed — 10008722 aerosol can middle of waste:
Mercury Present? No
Explosives present? No
PCBs present? No
PCB Mass: 0.00 lbs.
Pyrophorics present? No
Corrosives, Ignitables, Reactives present? No

DMS - WTS - Independent Technical Reviewer - DENISE HEE - [Supercompactor Load Out v1.64]

File Edit General Offsite Waste AMWTP ICS Data Review MLLW Soil Shipments Reports POS Facility Admin Navig Offsite Shipping Help Window

Product Drum ID: BN10497054 | 100 | FOR NEW DRUM - 100
Product Drum Loc.: 636- TBA/RE, PAD 1, WAQ
IDC: BN-702 | IDC Description: MLLW Supercompacted Debris
Operator 1: RON THOMPSON

Show Drum At: BTP1 | BTP2
Offsite Waste? N
Source Containers: N/A

Analysis ID: 0000309055
Procedure: INST-FOI-20
Proc Rev: 39
Closure Date: 28-Jul-2013 02:17:38
LLD: DFMLLW

Release Drum | E-Sign & Save | E-Sign History | NCR (0) | Task List | Filters

Characterization | Puck Detail | General | Liquid | Contents 1 | Contents 2 | Waste Summary | EPA Codes | Closure

(Comments are required to the right of each "Yes" answer)

Lead Batteries Present? [illegible]
Beryllium Contaminates Present? No
Hazardous-Only Waste Present? No
Is waste incompatible with backfill, packaging materials, or shipping container materials? No

Sealed Containers

Sealed containers over 4 liters? No

Cont. BN10497054 Pucks 10022399 and 10008722

DMS - WTS - Independent Technical Reviewer - DENISE LEE - [Supercompactor Load Out v1.64]

File Edit General Offsite Waste AMWTP ICS Data Review MLLW Soil Shipments Reports POS Facility Admin Navig Offsite Shipping Help Window

Product Drum ID: BN10497054 | 100 | FOR NEW DRUM - 100
Product Drum Loc.: 636- TSA/RE, PAD 1, WAQ
IDC: BN-702 | IDC Description: MLLW Supercompacted Debris
Operator 1: RON THOMPSON

Show Drum At: BTP1 | BTP2
Offsite Waste? N
Source Containers: N/A

Analysis ID: 0000309055
Procedure: INST-FOI-20
Proc Rev: 39
Closure Date: 28-Jul-2013 02:17:38
LLD: DFMLLW

Release Drum | E-Sign & Save | E-Sign History | NCR (0) | Task List | Filters

Characterization | Puck Detail | General | Liquid | Contents 1 | Contents 2 | Waste Summary | EPA Codes | Closure

Packaging/Waste Items (double click on a package record for details)

Container Id	Batch ID	Analysis ID	Material Item	Qty	Unit	Unit Wt	Estimated Item Weight
BN10497054	N/A	N/A	Product drum tare weight	1.0	EACH	125.00	125.00
10008722	RTR13-00076	0000088169	Compacted Drum (Puck)	1.0	EACH	213.89	213.89
10022399	RTR13-00023	0000087037	Compacted Drum (Puck)	1.0	EACH	238.14	238.14
10032330	RTR13-00095	0000088608	Compacted Drum (Puck)	1.0	EACH	231.53	231.53
						Estimated Total Weight	808.55

Waste Parameter Weights

Waste Parameter	Weight
Iron-based Metals/Alloys	335.18
Aluminum-based Metals/Alloys	0.00
Other metals	0.00
Other Inorganic Materials	179.36
Cellulosics	0.00
Rubber	0.00
Plastic (Waste Materials)	166.81
Inorganic matrix	0.00
Organic matrix	0.00
Total Weight	808.55

DMS - WTS - Independent Technical Reviewer - DENISE LEE - [Supercompactor Load Out v1.64]

File Edit General Offsite Waste AMWTP ICS Data Review MLLW Soil Shipments Reports POS Facility Admin Navig Offsite Shipping Help Window

Product Drum ID: BN10497054 | 100 | FOR NEW DRUM - 100
Product Drum Loc.: 636- TSA/RE, PAD 1, WAQ
IDC: BN-702 | IDC Description: MLLW Supercompacted Debris
Operator 1: RON THOMPSON

Show Drum At: BTP1 | BTP2
Offsite Waste? N
Source Containers: N/A

Analysis ID: 0000309055
Procedure: INST-FOI-20
Proc Rev: 39
Closure Date: 28-Jul-2013 02:17:38
LLD: DFMLLW

Release Drum | E-Sign & Save | E-Sign History | NCR (0) | Task List | Filters

Characterization | Puck Detail | General | Liquid | Contents 1 | Contents 2 | Waste Summary | EPA Codes | Closure

IDC Ok: [illegible] | IDC Recommended:
IDC Change Reason:
Closure Method: No Bags
Waste Matrix Code:
Container Closure Weight: 126.0 lbs
Summary Category Code: UNDEF
Filter Vent Date: 28-Jul-2013 02:23:38
Visual Exam Comment: loadout complete