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Remediation Services, L.L.C.
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INSTRUCTION

Building 664 Waste Handling and Storage Operations

OPS-INSTR.017

Revision 1

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Page 1 of 21

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1. PURPOSE.....	2
2. SCOPE.....	2
3. INITIAL CONDITIONS.....	2
3.1 All Waste Type Conditions	2
3.2 Additional Conditions for TRU/TRM and Packages with greater than 15 Grams of U-235.....	3
4. INSTRUCTIONS.....	5
4.1 Receiving Waste Packages	5
4.2 Waste Handling within Building 664 Complex.....	8
4.2.1 RTR Staging Operations.....	8
4.2.2 TRUPACT II Shipment Preparation.....	9
4.2.3 Canberra Assaying.....	10
4.2.4 Staging LLW for Off-Site Shipment.....	11
4.2.5 Staging For On-Site Shipment.....	12
4.2.6 Storage inside 664	14
4.2.7 Storage in Cargo Containers.....	15
4.3 Processing Waste Packages Rejected by RTR	16
5. REFERENCES.....	19

APPENDICES

Building 664 U235 Operator Aid Worksheet

Building 664 Waste Package Transfer to Cargoes Worksheet

DOCUMENT CLASSIFICATION
REVIEW WAIVER PER
CLASSIFICATION OFFICE



1. PURPOSE

This instruction details waste operations activities performed within the Building 664 complex which involve receiving, handling, and storage of Low Level (LLW), Low Level Mixed (LLM), Low Level TSCA (LLT), Transuranic (TRU), and Transuranic Mixed (TRM) Waste.

2. SCOPE

This instruction contains the following instructions:

- Receipt of waste packages into Building 664 complex
- Movement of waste packages within Building 664 complex
- Processing waste packages rejected by RTR.

3. INITIAL CONDITIONS

On a daily basis, Building 664 complex can receive, process, store, and ship a majority of the prevailing solid waste types. Prior to the initiation of waste receipt, handling and storage activities, the following initial conditions shall be satisfied.

3.1 All Waste Type Conditions

- Handling/storage activity is planned, scheduled and authorized by Plan Of the Day (POD).
- Pre-Evolution Brief (PEB) completed.
- Training for participating personnel verified per current List of Qualified Individuals (LOQI).
- Personal Protective Equipment (PPE) issued for each participant (e.g. Safety glasses with side shields, Safety Shoes, Leather Gloves, and Dosimeter).
- The 664 Facility is Operable and free from any Authorization Basis operating restrictions affecting waste handling.
- Building 664 Waste Package Pre-Receipt Worksheet completed as required by RMRS Procedure RF/RMRS-97-133, *Building 664 Surveillances and Administrative Tracking System*. and waste receipt authorized
- Packages to be moved are labeled per 4-D99-WO-1100 *Solid Radioactive Waste Packaging*, 1-M12-WO-4034 *Radioactive Waste Packaging Requirements*, 4-W32-WO-5000 *Loading Waste Packages For Off-Site Shipment.*, or other applicable procedures.

- The dock scale is calibrated if package weighing is to be performed.
- Forklift inspections are completed per HSP 9.06 *Powered Industrial trucks*.
- Package handling equipment inspected and manufacturer certified for use.
- Ladders to be used are inspected and manufacturer certified for use.

3.2 Additional Conditions for TRU/TRM and Packages with greater than 15 Grams of U-235

- Nuclear Criticality Surveillance performed per 4-B19-NSM-03.12 *Nuclear Materials Safety Limits And Criticality Safety Operating Limits Validation*.
- Weekly Radiological Surveys are current in Bldg. 664.
- Personnel working with TRU/TRM waste packages in 664 must have signed the applicable RWP for entry into posted Radiation Areas.

NOTE 1 *Criticality Safety General Guidance is provided in the Nuclear Material Safety Manual for Building 664.*

- The following requirements are from the Criticality Safety NMSL for drums.

(C.S.) Max. 200gram (Pu Fissionable Material Equivalence) per drum

(C.S.) No open drums

(C.S.) No drums containing solution IDCs (Free liquids in sludge are allowed)

(C.S.) No drums containing Be IDCs

(C.S.) No mechanically compacted waste drums

(C.S.) Drums may be stacked a maximum 4 high

(C.S.) Drums are assayed prior to shipment to Building 440/664.

- The following requirements are from the Criticality Safety NMSL for crates:

(C.S.) Max. 320g Fissionable Material per SWB, Corrugated Metal Box, TRU Waste Crates or Metal Overpack Box

(C.S.) No free liquids allowed (4 liters 'discovered free liquids' OK)

(C.S.) No open SWB, Corrugated Metal Box, TRU Waste Crates or Metal Overpack Box in storage

(C.S.) No mechanically compacted waste allowed in the SWB, Corrugated Metal Box, TRU Waste Crates or Metal Overpack Boxes

(C.S.) Any number of SWB, Corrugated Metal Boxes, TRU Waste Crates or Metal Overpack Boxes in a four high array

(C.S.) Containers are assayed prior to shipment to Building 664.

NOTE 2 *Waste packages being brought into Building 664 for RTR must comply with the above NMSLs and the following NMSL.*

The following requirements are from the Criticality Safety NMSL for RTR:

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- (C.S.) Only the following containers are Allowed:
- 1) 55-gallon drums each with max. 200g Pu
 - 2) TRUPACT II SWBs each with max. 320g Pu
 - 3) ATMX crates each with max. 320g Pu
- (C.S.) Containers in the RTR staging area and within the RTR must be in a one-layer planar array
- (C.S.) Max. 4-Liters of liquid per 55-gallon drum

4. INSTRUCTIONS

WARNING

If the ability to safely perform a given evolution ever comes into question at any time, then the evolution shall be STOPPED and supervisor notified. The Operations Team shall then evaluate the prevailing hazards (conditions). The evolution can resume when the Operations Team determines that, per RMRS Operations Directive 1, mechanisms are in place to adequately control the hazard.

4.1 Receiving Waste Packages

Supervisor

- [1] Ensure that the pre-receipt has been successfully completed as specified in RF/RMRS-97-133.
- [2] Ensure compliance with the following requirements (1-T93-Traffic-110, Section 5.3.1) *On-Site Transportation of Hazardous and Radioactive Materials Manual*:
 - No hazardous material shall be loaded into or on, or unloaded from any vehicle unless the hand brake is operational and securely set and the wheels are chocked.
 - Ensure that the trailer does not shift or raise during loading or unloading operations.

- No trailer or semi-trailer equipped with a fifth wheel pin shall be loaded or unloaded unless it is hooked to a trailer with the air brake set or by a commercially produced braking device connected to the nose of the tractor.
- [3] If discrepancies are encountered during work evolution, then record guidance/corrective actions in the Supervisor Log.

Waste Technician

- [4] Request RCT to determine the radiation level outside of the transport vehicle and inside the building work area and post the area in accordance with applicable site procedures.
- [5] Obtain the following from the truck driver:
- Waste/Residue Travelers (RF-47386) or equivalent package documentation
 - Nuclear Material and Drum Transfer Receipt (NMDTR) (RF-38570), Internal Transfer Receipt (ITR) (RF-20690), or Building 664 Waste Package Pre-Receipt Worksheet (RF/RMRS-97-133).
- [6] Ensure Building 664 Waste Package Pre-Receipt Worksheet was completed and approved by B 664, RF/RMRS-97-133.
- [7] If a package number on the NMDTR, ITR, or Building 664 Waste Package Pre-Receipt Worksheet does not match the Building Waste Package Pre-Receipt Worksheet, then do not move the package into the building and notify the supervisor.

Supervisor

- [8] If the discrepancies cannot be corrected, notify Building Manager and return the package to the sender or isolate and separate the non-matching packages.
- [9] Ensure that the NMDTR, ITR, or Building 664 Waste Package Pre-Receipt Worksheet is signed by Building 664 receiving personnel.

Waste Technician

- [10] Move the packages from the truck into the building or cargo container area using a drum hand truck, forklift and/or fork truck with a drum hugger attached.
- [11] During unloading verify that waste containers being unloaded are shown on the approved Building 664 Waste Package Pre-Receipt Worksheet, NMDTR, ITR - as applicable.
- [12] Confirm that a Radioactive Material Label is completed, signed and attached to each waste package.

- No trailer or semi-trailer equipped with a fifth wheel pin shall be loaded or unloaded unless it is hooked to a trailer with the air brake set or by a commercially produced braking device connected to the nose of the tractor.
- [3] If discrepancies are encountered during work evolution, then record guidance/corrective actions in the Supervisor Log.

Waste Technician

- [4] Request RCT to determine the radiation level outside of the transport vehicle and inside the building work area and post the area in accordance with applicable site procedures.
- [5] Obtain the following from the truck driver:
- Waste/Residue Travelers (RF-47386) or equivalent package documentation
 - Nuclear Material and Drum Transfer Receipt (NMDTR) (RF-38570), Internal Transfer Receipt (ITR) (RF-20690), or Building 664 Waste Package Pre-Receipt Worksheet (RF/RMRS-97-133).
- [6] Ensure Building 664 Waste Package Pre-Receipt Worksheet was completed and approved by B 664, RF/RMRS-97-133.
- [7] If a package number on the NMDTR, ITR, or Building 664 Waste Package Pre-Receipt Worksheet does not match the Building Waste Package Pre-Receipt Worksheet, then do not move the package into the building and notify the supervisor.

Supervisor

- [8] If the discrepancies cannot be corrected, notify Building Manager and return the package to the sender or isolate and separate the non-matching packages.
- [9] Ensure that the NMDTR, ITR, or Building 664 Waste Package Pre-Receipt Worksheet is signed by Building 664 receiving personnel.

Waste Technician

- [10] Move the packages from the truck into the building or cargo container area using a drum hand truck, forklift and/or fork truck with a drum hugger attached.
- [11] During unloading verify that waste containers being unloaded are shown on the approved Building 664 Waste Package Pre-Receipt Worksheet, NMDTR, ITR - as applicable.
- [12] Confirm that a Radioactive Material Label is completed, signed and attached to each waste package.

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- [13] If the Radioactive Material Label (RF-46751) or (RFP-5820.27) is not completed, signed and attached to each waste package or if the radiation and contamination survey is older than two years, then notify an RCT to perform and document radiation and contamination survey(s) on the Radioactive Material Label in accordance with applicable site procedures.
- [14] Confirm that an On-Site Hazardous Waste Label (RF-47257) is completed and attached to each LLM and TRM waste package.
- [15] If an On-Site Hazardous Waste Label is not completed and attached to each LLM and TRM waste package, notify the Compliance Specialist.
- [16] If any of the waste packages contain 15 or greater grams of U-235, then attach an Operator Aid to the top and side of each waste package to ensure proper handling and storage. Contact the Building Manager to obtain the proper Operator Aid. These waste packages are prohibited from storage in the cargo containers.
- [17] Complete Appendix I, Building 664 U235 Operator Aid Worksheet.
- [18] If required by Supervisor, weigh package and record on the W/RT or equivalent waste package documentation. For TRU/TRM packages enter the weight and other appropriate information on the *TRU/TRM-Waste Characterization Program-Container Routing* form.
- [19] Provide the NMDTR, ITR, or Building 664 Waste Package Pre-Receipt Worksheet to the Compliance Specialist.

Supervisor

- [20] If discrepancies are encountered during work evolution, then record guidance/corrective actions in the Supervisor Log.

Compliance Specialist

- [21] **IF** the package was received via ITR, or Building 664 Waste Package Pre-Receipt Worksheet,
THEN file the ITR or Building 664 Waste Package Pre-Receipt Worksheet locally.
- [22] **IF** the package was received via Nuclear Material Drum Transfer Report (NMDTR),
THEN fax the signed NMDTR to Nuclear Material Accountability per NMT-3 procedure and file copy of NMDTR locally.
- [23] File Appendix I, Building 664 U235 Operator Aid Worksheet.

4.2 Waste Handling within Building 664 Complex

Once waste packages are received into the Building 664 complex they are destined for the following locations: RTR staging area, TRUPACT II loading, Canberra assaying, staging for off-site shipment, staging for on-site shipment, storage inside 664, and storage in the cargoes. Movement between these locations also occurs. The following applies to the specified locations.

4.2.1 RTR Staging Operations

Supervisor

- [1] Designate the appropriate area to be used for RTR staging.
- [2] Direct Waste Technicians to move received shipment to RTR staging area. Only a single planar array is allowed for TRU/TRM and greater than 15 grams of U235 waste packages. LLW/LLM/LLT waste packages may be stacked.
- [3] **IF** the waste is LLW/LLT and RTR staging space is not immediately available,
THEN the waste can be accumulated in cargo containers segregated to receive RTR input stock.

NOTE 1 *Waste stored in cargoes awaiting RTR processing must be entered into the WEMS locator upon storage*

Waste Technicians

- [4] Move the waste packages to the RTR staging area using a drum hand truck, forklift and/or fork truck with a drum hugger attached.
- [5] Ensure waste packages are staged in compliance with the RCRA permit.
- [6] Ensure the Waste/Residue Traveler or other package documentation is placed on the lid, taped to, or under the banding of each package.
- [7] Verify that package numbers on documentation matches the actual package barcode number.
- [8] Notify Supervisor of any discrepancies encountered.
- [9] Notify Supervisor and Compliance Specialist when complete.

Compliance Specialist

- [10] Ensure that the WEMS operator completes the container movement transaction for placing container in RTR staging area per 1-Q11-WO-1221 *Controls for Movement of Waste Containers*.
- [11] Track the date of placement of the waste containers in the RTR staging area.
- [12] Ensure a container does not exceed 15 days in the staging area.
- [13] Notify the Facility Manager and RMRS Environmental Compliance Manager if, for any reason, there will be an inability to meet the 15 day staging requirement (i.e. RTR down time). Obtain approval to keep the waste in the RTR staging not longer than 15 days or make arrangements to ship the packages back to the sender.

WEMS Operator

- [14] Update the WEMS database to reflect container movement to RTR staging area.

Facility Manager

- [15] Schedule NDT Operations of the RTR unit on the POD.

NOTE 2 *NDT personnel will operate the RTR per operating procedures 4-W30-NDT-00664 Real-Time Radiography Testing of Transuranic and Low-Level Waste in Building 664.*

4.2.2 TRUPACT II Shipment Preparation**WIPP Technical Support**

- [1] Identify to the Facility Manager and Supervisor which drums are to be retrieved for shipment preparation and shipment to the WIPP.
- [2] Identify the drum numbers to operations so that the appropriate files can be retrieved.

Supervisor

- [3] Identify shipment preparation area for the shipment.
- [4] Direct Waste Technicians to break down the WIPP stacks as applicable and move waste packages to shipment preparation area.
- [5] Notify the Compliance Specialist of the pending movement.

Waste Technicians

- [6] Request the RCT to remove Radiological Posting rope as needed.
- [7] Using forklift and drum hugger, break down stack as applicable and retrieve the identified drums.
- [8] Move drums to the WIPP shipment preparation area using either a drum hand truck or fork truck with a drum hugger attached, maintaining at least a 26" aisle space to the nearest array.
- [9] Obtain waste package documentation and place on top of each drum.
Note any problems with Tamper Indicating Devices, loose locking rings, or loose filters and report these to the Supervisor.
- [10] Return drums not used for loading to a stacked array using either a drum hand truck or fork truck with a drum hugger attached.
- [11] Update the grid locator and provide this information to the Compliance Specialist.
- [12] Replace radiological postings.

Compliance Specialist

- [13] Ensure that the WEMS operator updates the database per 1-Q11-WO-1221 *Controls for Movement of Waste Containers*.

WEMS Operator

- [14] Update WEMS as directed by the Compliance Specialist per WO-1221.

4.2.3 Canberra Assaying**WIPP Technical Support**

- [1] Identify to the Facility Manager and Supervisor which drums are to be retrieved for the WIPP certification process.

Supervisor

- [2] Direct Waste Technicians to break down the WIPP stacks to stage drums for processing.
- [3] Notify the Compliance Specialist of the pending movement.

Waste Technicians

- [4] Request the RCT to remove Radiological Posting tape as needed
- [5] Using forklift and drum hugger, break down stack as applicable and retrieve the identified drums.

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- [6] Move drums to the WIPP processing area using either a drum hand truck or fork truck with a drum hugger attached, maintaining at least a 26" aisle space to the nearest array.
 - [7] Obtain container files and place on top of each drum.
Note any problems with Tamper Indicating Devices, loose locking rings, or loose filters and report to these to the Supervisor
 - [8] Restack drums as applicable that were not staged for Canberra using a drum hand truck, forklift, and/ or fork truck with a drum hugger attached.
 - [9] Update the grid locator and provide this information to the Compliance Specialist.
 - [10] Replace radiological postings.
 - [11] Move the selected drums to the Canberra unit, in coordination with Canberra personnel, using fork truck with a drum hugger attached.
 - [12] Retrieve assayed drums from the Canberra unit using fork truck with a drum hugger attached and sign the TRU/TRM Waste Characterization Program Container Routing form.
 - [13] Request the RCT to remove Radiological Posting tape as needed
 - [14] Return drums to the stack or staging area as directed by supervisor using either a drum hand truck or fork truck with a drum hugger attached.
 - [15] Update the stacking diagram and provide this information to the Compliance Specialist.
 - [16] Replace radiological postings.

Compliance Specialist

- [17] Ensure that the WEMS operator updates the database per WO-1221.

WEMS Operator

- [18] Update WEMS as directed by the Compliance Specialist per WO-1221.

4.2.4 Staging LLW for Off-Site Shipment

NOTE 1 *These steps are for staging previously identified waste for NTS shipment.*

Compliance Specialist

- [1] Identify where the LLW packages are to be staged, such that a separate, segregated array will comprise the final storage footprint. When WIPP handling activities are not in progress, the highbay is normally used for this purpose.
- [2] Ensure that the WEMS operator completes transaction for placing packages in NTS staging area per WO 1221.

Waste Technician

- [3] Move packages to the NTS staging area using a drum hand truck, forklift and/or fork truck with a drum hugger attached.

Facility Manager

- [4] Conduct liaison with Shipping Program personnel and schedule pending NTS shipment on the POD.

NOTE 2 *Loading containers for NTS shipment is performed per the WO 5000 procedure.*

4.2.5 Staging For On-Site Shipment**Waste Management Project**

- [1] Identify to the Facility Manager and Supervisor (or Compliance Specialist) which packages are to be retrieved from stacks or cargoes for staging and shipment to another on-site facility.
- [2] Identify the package numbers to operations so that the appropriate waste package documentation can be retrieved.

Compliance Specialist or Supervisor

- [3] Complete the "Building 440 Waste Pre-Receipt Checklist" per Appendix 1 of 4-WF2-WO-5 for shipments to Building 440, or a NMDTR or ITR for other shipments.
- [4] Obtain Building 440 approval of the "Building 440 Waste Pre-Receipt Checklist" for shipments to Building 440.

Supervisor

- [5] Identify shipment preparation area.
- [6] Direct Waste Technicians to break down the stacks as applicable to stage packages for processing.
- [7] Notify the Compliance Specialist of the pending movement.

Waste Technicians

- [8] Request the RCT to remove Radiological Posting rope as needed
- [9] Using forklift, forklift and drum hugger, or a drum hand truck, break down stack as applicable and retrieve the identified packages.
- [10] Move packages shown on the "Building 440 Waste Pre-Receipt Checklist," NMDTR, or ITR, to the shipment preparation area using a drum hand truck, forklift, and/or fork truck with a drum hugger attached, maintaining at least a 26" aisle space to the nearest array.
- [11] Obtain waste package documentation and place on top of each package.
Note any problems with Tamper Indicating Devices, loose locking rings, or loose filters and report these to the Supervisor.
- [12] If the Radioactive Material Label (RF-46751) or (RFP-5820.27) is not completed, signed and attached to each waste package or if the radiation and contamination survey is older than two years, then notify an RCT to perform and document radiation and contamination survey(s) on the Radioactive Material Label in accordance with applicable site procedures
- [13] Return packages not used for loading to a stacked array or cargo containers using a drum hand truck, forklift and/or fork truck with a drum hugger attached.
- [14] Update the grid locator and provide this information to the Compliance Specialist.
- [15] Replace radiological postings as applicable.

Compliance Specialist

- [16] Ensure that the WEMS operator updates the database per WO 1221.

WEMS Operator

- [17] Update WEMS as directed by the Compliance Specialist per WO 1221.

NOTE 1 *Shipments out of 664 shall be per 1-PRO-015-NMT-003 Transferring Category III and IV Material.*

Waste Technician

- [18] During loading verify that waste containers being loaded are shown on the approved 'Building 440 Pre-Receipt Checklist,' NMDTR, or ITR.

4.2.6 Storage inside 664**Waste Technician**

- [1] If the waste packages are coming from RTR, then thoroughly review the waste packaging documentation (i.e. Waste/Residue Traveler or equivalent) to determine proper waste package handling, segregation, and storage requirements. Specifically, the WEMS Container Accuracy Report(s) must be reviewed. If more than one WEMS Container Accuracy Report is present, use the report with the most current date. Clearly mark "Outdated WEMS Report" or equivalent on the face of an outdated WEMS Container Accuracy Report so that decisions are made only on current information. Request a current copy of the WEMS Container Accuracy Report, as needed.
- [2] If any of the waste packages contain 15 or greater grams of U-235, verify that an Operator Aid is attached to the top and side of each waste package to ensure proper handling and storage. Contact the Building Manager to obtain the Operator Aid. These waste packages are prohibited from storage in the cargo containers.
- [3] Ensure that the following waste handling criteria are adhered to:
- Package labeling faces the aisle.
 - Only like packages are stacked on each other
 - Drums in the stack that are placed on pallets shall be banded.
 - Fourth tier drums shall be palletized, using metal pallets, and banded. Existing wooden pallets shall be replaced whenever they are removed from the stack.
 - Aisle widths are maintained at a minimum of 26 inches between waste stacks, 48 inches for personnel egress and 10 feet for equipment handling paths.
- [4] Notify the RCT to post packages in accordance with applicable site procedures.
- [5] Place the waste packages into storage using either a drum hand truck or fork truck with a drum hugger attached and record storage location on the stacking diagram. Metal pallets shall be used vs.

wooden pallets. As the stack is taken down, the existing wooden pallets shall be replaced with metal pallets.

- [6] Update the grid location and provide this information to the Compliance Specialist.
- [7] Deliver the W/RT or equivalent package documentation, and stacking diagram to the Compliance Specialist.

Compliance Specialist

- [8] Ensure WEMS is updated and that a copy of the updated stacking diagram is placed in the notebook for stacking diagrams.

Supervisor

- [9] Verify that the following waste handling criteria are met:
 - Package labeling faces the aisle.
 - Only like packages are stacked on each other.
 - Drums in the stack that are placed on pallets shall be banded.
 - Fourth tier drums shall be palletized and banded.
 - Aisle widths are maintained at 26 inches between waste stacks, 48 inches for personnel egress and 10 feet for equipment handling paths.
- [10] If discrepancies are encountered during work evolution, then record guidance/corrective actions in the Supervisor Log.

4.2.7 Storage in Cargo Containers

Waste Technician

- [1] Complete the Appendix II, Building 664 Waste Package Transfer to Cargoes Worksheet.
- [2] Ensure that each container listed on Appendix II meets the following:
 - The waste is either LLW or LLT.
 - The waste is not RCRA regulated.
 - The waste containers contain less than 15 grams of U-235.

Supervisor

- [3] Review and approve Appendix II.

Compliance Specialist

- [4] Review and approve Appendix II.

Waste Technician

- [5] Notify the RCT to post packages in accordance with applicable site procedures.
- [6] Place the waste packages listed on Appendix II into storage using a drum hand truck, forklift, and/or fork truck with a drum hugger attached and record storage location on the stacking diagram.
- [7] Deliver the W/RT or equivalent package documentation, Appendix II worksheet, and stacking diagram to the Compliance Specialist.

Compliance Specialist

- [8] Ensure WEMS is updated and that a copy of the updated stacking diagram is placed in the notebook for stacking diagrams.
- [9] Obtain approval of Compliance Specialist or Building Manager prior to moving waste packages.
- [10] File Appendix II worksheet.

Supervisor

- [11] If discrepancies are encountered during work evolution, then record guidance/corrective actions in the Supervisor Log.

4.3 Processing Waste Packages Rejected by RTR**Compliance Specialist**

- [1] **IF** a given package is rejected by reason of free liquids, **THEN** review the RTR tape and determine whether or not the package can be managed as a liquid or solid.
- [2] Document the results of the RTR tape review.
- [3] **IF** the package can be managed as a solid, **AND IF** the package is either TRU or TRM, **THEN** notify the Supervisor that stacking is allowable in 664.
OR
IF the package is LLW, **THEN** notify the Supervisor that storage in cargo containers accumulating rejected liquids is allowable.
OR
IF the package is LLM, **THEN** notify the Supervisor that segregated storage in Building 664 is required.
- [4] **IF** the package must be managed as a liquid, **THEN** notify the Supervisor and ensure that the package is placed in a secondary containment pan in an area segregated for accumulation of liquid rejected waste for stacking.

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- [5] Arrange for future shipment of waste managed as a liquid to other storage areas approved for liquid waste storage.
 - [6] For all other type reject categories, notify the Supervisor of the type of reject to ensure proper disposition.

WIPP Technical Support

- [7] **IF** the rejected waste is TRU or TRM, **THEN** assist the Supervisor in identifying segregated storage array stacks for rejected waste which can be managed as a solid.

Supervisor

- [8] **IF** the rejected waste is LLW/LLT and manageable as a solid, **THEN** identify the cargo which is currently accumulating that reject category.
- [9] **IF** the rejected waste is LLM, TRU, or TRM and manageable as a solid, **THEN** identify an accumulation area within Building 664
- [10] **IF** the rejected waste must be managed as a liquid, **THEN** identify the footprint for placing the secondary containment pans.
- [11] Direct the Waste Technicians to move the rejected containers to the appropriately identified location.

Waste Technicians

- [12] Verify that all waste destined for cargo storage is LLW/LLT by review of available package documentation.
- [13] Report any discrepancies to the Supervisor.
- [14] Move, segregate, contain, or stack rejected waste as directed by the Supervisor using a drum hand truck, forklift, and/or fork truck with a drum hugger attached.
- [15] **IF** the waste is stacked in Building 664 or stored in the courtyard cargo containers, **THEN** collect the Waste/Residue Travel and/or all other Package documentation. Provide this paperwork to the Compliance Specialist personnel for filing in the Building 664 Lectriever or fire proof cabinet as appropriate.
- [16] Drums in the stack that are placed on pallets shall be banded. Fourth tier drums shall be palletized, using metal pallets, and banded. Existing wooden pallets shall be replaced whenever they are removed from the stack.
- [17] Update the grid location of the final storage location
- [18] Report status of cargo container capacity for reject waste type to the Supervisor.
- [19] Provide the final grid location to the Compliance Specialist.

Supervisor

- [20] Update courtyard and facility storage plan documents (i.e. Cargo storage chart for LLW waste and the WIPP category stacks for TRU/TRM).

Compliance Specialist

- [21] For each rejected Package, coordinate with the WEMS Operator to update the locator and enter the appropriate reject code into the database per WO 1221.

WEMS Operator

- [22] Update the WEMS database to reflect the reject reason and final storage location per the WO 1221.

Program Technical Support

- [23] Track accumulation inventories of rejected waste for future planning of necessary corrective action.

5. REFERENCES

1-M12-WO-4034 *Radioactive Waste Packaging Requirements*

1-PRO-015-NMT-003 *Transferring Category III and IV Material.*

1-Q11-WO-1221 *Controls for Movement of Waste Containers.*

1-T93-Traffic-110, Section 5.3.1 *On-Site Transportation of Hazardous and Radioactive Materials Manual::*

4-B19-NSM-03.12 *Nuclear Materials Safety Limits And Criticality Safety Operating Limits Validation*

4-D99-WO-1100 *Solid Radioactive Waste Packaging*

4-W30-NDT-00664 *Real-Time Radiography Testing of Transuranic and Low-Level Waste in Building 664..*

4-W32-WO-5000 *Loading Waste Packages For Off-Site Shipment.*

Conduct of Operations Manual - 1-21000-COOP-11 *Pre-Evolution Briefing*

Conduct of Operations Manual - 1-31000-COOP-16 *Plan of the Day*

HSP 9.06 *Powered Industrial trucks.*

NMSL 960081/DRP-007-4/4/1

NMSL 970058/DRP-010-1/1/1

NMSL 970115/DRP-012-0/0/1

Nuclear Material Safety Manual for Building 664

RF/RMRS-97-133, *Building 664 Surveillances and Administrative Tracking System*

