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CP4-WM-0019 **FRev. 1A**	**TITLE**: On-Site Transfer and Movement of Waste Containers and Other Support Equipment	Page 1 of 18

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REVISION/CHANGE LOG

Revision/Change Letter	Description of Changes	Pages Affected	Date of Revision/Change
FR0	Procedure bluesheet	All	10/19/17
FR1	Initial Release. Non-intent changes to incorporate bluesheet changes.	All	12/5/17
FR1A	Address CA-000697, AI-0001210. Add CP2-SS-3000, CP3-NM-3002 and CP3-NM-3007 as Use References. Add Steps 5.3, 5.4, 8.3, & 8.4.	3-5, 15-16	5/22/18

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1.0 PURPOSE AND SCOPE

1.1 Purpose

The purpose of this procedure is to implement applicable requirements to ensure safe on-site transfer and movement of waste containers and their contents (including other support equipment).

In order to prevent injuries and/or environmental spills, these activities shall be conducted in a manner to implement the Environmental Management System (EMS) and the Integrated Safety Management System (ISMS) methodology as described in CP2-ES-0101, *Environmental Management System* and CP2-HS-1000, *Integrated Safety Management System Description for Fluor Federal Services, Inc., Paducah Deactivation Project, Paducah, Kentucky*.

1.2 Scope

This procedure applies to any Four Rivers Nuclear Partnership, LLC (FNRP) personnel involved with on-site transfer and movement operations involving waste containers, their contents, and other support equipment in facilities or areas. Text Deleted

This procedure does **NOT** apply to the following:

- Off-site transportation of waste containers to or from any facility not located on the Paducah Site (i.e., Area operated/owned by U.S. Department of Energy [DOE]).
- On-site movements under emergency conditions as directed by the Plant Shift Superintendent (PSS).
- Handling, transporting, and relocating of fissionable material waste containers. This activity is addressed in CP3-WM-0015, *Management of Fissile Waste Materials*.

> **CAUTION**:
>
> The operator must take the appropriate precautions to prevent the spill/release of materials. If a spill/release occurs, the PSS must be notified immediately.

2.0 REFERENCES

2.1 Use References

- 49 *CFR* Part 173, *Shippers—General Requirements for Shipments and Packagings*
- CP2-ES-0101, *Environmental Management System*
- CP2-HS-1000, *Integrated Safety Management System Description for Fluor Federal Services, Inc., Paducah Deactivation Project, Paducah, Kentucky*
- CP3-SM-0020, *Administrative Controls for Powered Industrial Trucks*
- CP3-SM-1101, *Activity Level Work Request, Planning, Scheduling and Release*
- CP3-SM-1102, *Activity Level Work Execution and Closeout*
- CP2-SS-3000, *Nuclear Materials Control and Accountability Plan for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky* Chg A
- CP2-WM-0006, *Facility Safety Basis Inventory Control Plan for Paducah Waste Storage Facilities*

- CP2-WM-0011, *Waste Acceptance Criteria for the Treatment, Storage, and Disposal Facilities at the Paducah DOE Site*
- CP2-WM-0661, *Transportation Safety Document for On-Site Transport*
- CP3-NM-3002, *Intraplant Shipments and Receipts*
- CP3-NM-3007, *Managing and Documenting Termination of Safeguards Nuclear Materials* Chg A
- CP3-SM-0051, *Hoisting and Rigging*
- CP3-WM-0016, *Waste Handling and Storage in DOE Waste Storage Facilities*
- CP3-WM-0023, *Inspection of DOE Waste Storage Facilities and Tanks*
- CP3-WM-1017, *Safe Handling and Opening of Sealed Containers*

2.2 Source References

- CP2-ES-0101, *Environmental Management System*
- CP2-HS-1000, *Integrated Safety Management System Description for Fluor Federal Services, Inc., Paducah Deactivation Project, Paducah, Kentucky*

3.0 COMMITMENTS

None

4.0 PRECAUTIONS AND LIMITATIONS

4.1 Precautions

4.1.1 **DO NOT** use any lifting device that may damage the container during handling and/or movement.

4.1.2 Exercise special precautions when handling waste containers (even empty ones) manually. Physical injury may occur if a container shifts (muscle strains), contacts another surface or container (pinch points), or is lowered onto a person's foot. Manual movement should be the last option and should be well within the capabilities of the individual(s) performing the work.

4.1.3 Surfaces that are **NOT** level may cause an unsecured load to fall or change the center of gravity that may reduce the effective safe load capacity rating of a device.

4.1.4 Personnel are **NOT** allowed under or near a suspended load at any time during the loading of a transport vehicle to avoid the possibility of serious injury. Danger exists from falling objects.

4.1.5 A winch strap lodged between waste containers may cause a container, or a pallet of containers to fall if the strap is force-pulled in an attempt to remove it. This practice could result in personal injury, equipment damage, and/or an environmental spill.

4.1.6 **If** a winch strap becomes lodged while removing containers or pallets of containers from a transport vehicle, then **DO NOT** climb onto the truck bed to dislodge the winch strap or try to force the strap to release. Contact the Site Supervisor for guidance.

4.1.7 The operator must take the appropriate precautions to prevent the spill/release of materials. If a spill/release occurs, the PSS must be notified immediately.

4.2 Limitations

4.2.1 Waste containers in a damaged, weakened, or deteriorated condition may start to leak when handled or during movement. This leakage may cause personnel exposure to radiological and/or chemical hazards and/or an environmental spill.

4.2.2 Waste containers may be very heavy, depending upon their size and contents. Assistance by one or more coworkers may be needed when lifting or tilting a heavy container/to prevent injury and/or avoid a possible spill. Steel-toed shoes shall also be worn to prevent foot injuries.

4.2.3 Waste containers are often stored in close proximity to or in contact with other containers. Hands, fingers, and other body parts shall not be placed in a pinch point between the container being moved and adjacent containers, structures, or handling equipment.

4.2.4 Waste containers may move or fall during transport even if they had been secured in place prior to transport. Personnel shall keep a safe distance from these containers and shall never position themselves between equipment and containers being loaded.

4.2.5 The immediate supervisor may establish work limitations due to severe weather conditions (i.e., ice, snow, or rain), slippery conditions due to spilled materials, or any other work environment condition considered to increase the risk of injury.

5.0 PREREQUISITES

5.1 Secure all support equipment to the vehicle with a drum strap, bungee cord, duct tape, or any other means that will prevent movement of the equipment during transport in order to prevent bodily injury or damage to the vehicle.

5.2 Obtain the applicable Authorization Basis (AB) approval before moving any waste containers out of or into any waste storage facility.

5.3 All Nuclear Material Control and Accountability (NMC&A) accountable material will be managed in the appropriate material balance area (MBA) according to CP2-SS-3000, *Nuclear Materials Control and Accountability Plan for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky* and CP3-NM-3007, *Managing and Documenting Termination of Safeguards Nuclear Materials.* Chg A

5.4 All NMC&A accountable material will be transferred and moved in the appropriate MBA according to CP3-NM-3002, *Intraplant Shipments and Receipts.*

6.0 INSTRUCTIONS

6.1 Pre-Performance Approvals

Frontline Supervisor (FLS)/Operator

NOTE:

Steps **6.1.1** through **6.1.8** can be completed in any order.

6.1.1 Review the Request for Disposal Form (RFD) and applicable attachments to ensure waste container meets waste acceptance criteria per CP2-WM-0011, *Waste Acceptance Criteria for the Treatment, Storage, and Disposal Facilities at the Paducah DOE Site*.

6.1.2 Comply with the AB approval process in accordance with CP2-WM-0006, *Facility Safety Basis Inventory Control Plan for Paducah Waste Storage Facilities*.

6.1.3 Review the applicable work control documentation to ensure that the scope of the work is clearly defined.

6.1.4 Review the applicable health and safety permits and/or hazard assessment.

6.1.5 Verify container has been properly closed and is marked/labeled in accordance with CP2-WM-0011.

FLS

6.1.6 Verify personnel training requirements are met.

6.1.7 Verify applicable health and safety permit, radiation work permit and/or hazard assessment is in place.

6.1.8 Conduct Pre-job briefing in accordance with CP3-SM-1101, *Activity Level Work Request, Planning, Scheduling and Release*.

Operator

6.1.9 Don all required personal protective equipment (PPE) applicable for the task as identified in procedures, applicable permits, and/or hazard assessment.

6.2 Inspecting, Transport Equipment and/or Lifting Fixtures

Operator

6.2.1 Inspect industrial motorized equipment before the first use on each shift to ensure safe operating condition in accordance with CP2-SM-0020, *Administrative Controls for Powered Industrial Trucks*.

NOTE:

Industrial motorized equipment used for waste container handling and transportation includes, but is not limited to: Forklift trucks, flatbed trucks, man-lifts, etc.

6.2.2 Inspect lifting devices and fixtures before each use in accordance with CP3-SM-0051, *Hoisting and Rigging*.

NOTES:

Lifting devices and special fixtures used for waste container handling and transportation include, but are not limited to: Manual dollies, special fixtures, pallets, straps, and winches.

Cracks, excessive wear, malfunctions, tears, abnormalities, loose or missing fasteners, and presence of an inspection tag that has not passed its expiration data are the primary inspection criteria.

6.2.3 Report any defective industrial equipment and/or lifting fixtures to FLS and/or Field Engineer.

FLS

NOTE:

Defective equipment must have administrative tags or labels clearly identifying that the equipment is not to be used.

6.2.4 Inspect industrial motorized equipment and/or lifting devices which have deficiencies affecting safe operation.

6.2.5 **If** deficiencies cannot be corrected, **then** permanently remove the equipment from use and/or destroy.

NOTE:

Only qualified personnel are allowed to remove tags or labels from defective equipment.

6.2.6 Inspect equipment that has been identified as defective and allow for use only equipment that has no administrative tags or labels identifying deficiencies.

6.2.7 If applicable, request qualified inspection personnel perform inspection of repaired equipment prior to placing into service.

6.3 Initial Waste Acceptance

FLS/Field Engineer

6.3.1 Verify that the contents of each waste container have been sampled and/or characterized to verify the type(s) of waste it contains **OR** that adequate process knowledge exists to determine the types of wastes and approximate concentrations in each waste container.

Operator

6.3.2 Inspect the ID numbers on the waste containers to ensure information is clearly legible.

6.3.3 Verify that the ID numbers on the waste containers match the container ID numbers listed on the RFD.

6.3.4 Verify the container is the type identified on the documentation and meets the required specification in the applicable waste acceptance criteria (WAC) for the waste type.

6.3.5 Inspect to ensure that any required labels are the correct ones for the waste type and that each is legible, properly positioned, and firmly attached to each waste container.

NOTE:

Label requirements are in CP2-WM-0011, *Waste Acceptance Criteria for the Treatment, Storage, and Disposal Facilities at Paducah U.S. Department of Energy*.

6.3.6 **If** the waste is contained in a plastic bag, **then** inspect the bag for:

- The proper type of bag for the waste type
- Properly identified
- Securely sealed with tape
- Free of holes and tears

NOTE:

The FLS shall be consulted if there are any questions or deficiencies.

6.3.7 Inspect container lids **and** verify that the lid(s) are secure and provide a good seal to prevent leakage during container movement.

6.3.8 Inspect each waste container to ensure that it has no dents, bulges, tears, punctures, holes, or corrosion (rust) severe enough to affect its integrity during transport.

6.3.9 Visually inspect container for obvious signs of over pressurization **and** provide any necessary notifications in accordance with CP3-WM-1017, *Safe Handling and Opening of Sealed Containers*.

6.3.10 Inspect the exterior of each waste container to ensure it is clean of debris or liquids.

6.3.11 Report any deficiencies from Steps **6.3.2** through **6.3.10** to the FLS.

6.3.12 **DO NOT** move any waste container until all deficiencies have been resolved.

NOTE:

All deficiencies must be documented. Resolution of these deficiencies will be in accordance with CP3-WM-0023, *Inspection of DOE Waste Storage Facilities and Tanks*.

6.3.13 Verify the waste and waste container meet the applicable waste acceptance requirements and complete a CP4-WM-0019-F01, "Container Verification and Acceptance Form" for a minimum of 10% of the containers of each new RFD or as requested by the Field Engineer or the FLS.

6.3.14 **If** spacing exempt or fissionable labels are present on the container, **then** EXIT this procedure and use procedure CP3-WM-0015.

6.4 Preparing Containers for On-site Transfer/Movements

<u>Operator</u>

6.4.1 Determine the total load gross weight, including fixture (pallets, winches, straps, etc.) and the waste container(s).

6.4.2 **If** the weight of any container is **NOT** known, **then** estimate the container weight based upon the table in Appendix B, **or** consult with the FLS for other container types not covered by Appendix B.

6.4.3 Verify the total weight of the load and fixture combined is **less than** the rated safe load capacity of the forklift or other lifting device.

6.4.4 **If** the total weight **exceeds** the rated safe load capacity, **then** notify the FLS and **DO NOT** proceed with transfer/movement until the problem has been resolved.

6.4.5 **If** the container is located in a radiological area **or** otherwise has the potential to have transferable surface contamination, **then** request the FLS to contact the Radiological Control Technician for it to be surveyed and tagged as to whether it may be moved to or through a non-radiological area, if applicable.

6.4.6 Visually inspect container prior to handling to identify signs of potential over pressurization **and** provide any necessary notifications in accordance with CP3-WM-1017.

6.4.7 Inspect and determine if a waste container has sufficient physical integrity prior to any handling or movement.

6.4.8 **If** any questions arise, **or** hidden container damage is discovered, **or** non-emergency difficulties are encountered when handling any waste container, **then** contact the FLS for assistance **and** guidance.

6.5 Movement of Waste Containers and Other Support Equipment within the Same Facility

Operator

> **CAUTION:**
>
> Using any lifting device that may damage the container during handling and/or movement should be avoided.

> **WARNING:**
>
> Special precautions should be exercised when handling waste containers (even empty ones) manually. Physical injury may occur if a container shifts (muscle strains), contacts another surface or container (pinch points), or is lowered onto a person's foot. Manual movement should be the last option and should be well within the capabilities of the individual(s) performing the work.
>
> Surfaces that are not level may cause an unsecured load to fall or change the center of gravity that may reduce the effective safe load capacity rating of a device.

6.5.1 **If** a container is heavy, **or** is to be moved through a narrow path, **or** the physical shape makes handling awkward, **then** use a lifting device (preferred method), **or** solicit the assistance of a second person.

6.5.2 **If** waste containers **or** uncontainerized items are palletized, **then** inspect pallets to ensure they are the proper size and are in good condition.

6.5.3 **If** waste containers are small, **or** are **NOT** suitable for strapping together, **then** secure the containers within a containment device.

NOTE:

Waste materials that are chemically incompatible (e.g., acids and bases) shall not be stored within the same containment pan.

6.5.4 Prior to movement of each load, inspect **and** verify that each load is properly centered on a lifting device and are appropriately secured using straps or other appropriate method.

NOTE:

The center of the load may not be the geometric center of the object.

6.5.5 **If** waste containers are to be transported within the same facility/building, **and** the following conditions have been satisfied, **then** strapping is **NOT** required:

- Container contents have been evaluated for risk of radiological and chemical exposure or spread of contamination in the event of a spill.
- Supervisory concurrence has been provided to the operator.
- Level surfaces and unobstructed paths are available where movements are to occur.
- Non-essential personnel have been restricted from immediate area where movements are to occur.

NOTE:

Liquids, gases, and fine particulates such as dust and ash have a greater potential for causing exposures and spread of contamination in the event of a spill.

6.5.6 **If** a waste container is to be opened as part of handling and transport, **then** follow the requirements outlined in CP3-WM-1017.

6.5.7 **If** a forklift truck is used to handle waste containers, **then** follow the forklift operating requirements specified in CP2-SM-0020, *Administrative Controls for Powered Industrial Trucks,* to ensure that the loads are moved safely.

6.5.8 **DO NOT** leave Resource Conservation and Recovery Act (RCRA), polychlorinated biphenyl (PCB), low-level waste (LLW), or mixed low-level waste (MLLW) unattended during handling or transport unless it is located in a secured storage location appropriate for that waste type and maintained in a stable configuration (i.e., load is not left suspended, but placed on the floor surface).

6.6 Transfer of Waste Containers and Other Support Equipment Using a Forklift/Truck

Field Engineer

6.6.1 Determine if the waste container(s) contain(s) a hazardous material as defined in 49 *CFR* Part 173, *Shippers—General Requirements for Shipments and Packagings*.

6.6.2 Using the packaging requirements as outlined in CP3-WM-0016, *Waste Handling and Storage in DOE Waste Storage Facilities,* perform document reviews and/or container inspections.

6.6.3 Act as a technical contact in the event of an emergency response associated with the waste materials movement.

6.6.4 Prior to transit, communicate the hazards associated with the waste container(s) as required by CP2-WM-0661, *Transportation Safety Document for On-Site Transport*.

Operator

6.6.5 Inspect and verify that waste container(s) are properly marked and labeled in accordance with CP2-WM-0011.

6.6.6 Select transportation routes that are clear of obstructions or barricades.

6.6.7 **AVOID** transporting waste materials during periods of heavy vehicle or pedestrian traffic.

6.6.8 Operate the transport vehicle in accordance with the requirements in CP2-SM-0020.

6.6.9 **If** a forklift truck is used to transfer waste containers between facilities, **then** complete the following:

A. Secure a single waste container to a pallet with a ratchet strap or other material of adequate load strength **and** ensure the load is properly secured to the forklift truck.

B. Secure multiple waste containers to each other using a ratchet strap or other material of adequate load strength **and** ensure the load is properly secured to the forklift truck.

C. Secure metal framed poly tanks and/or ST-90 containers with a ratchet strap or other material of adequate load strength to the forklift.

D. Inspect and verify all container and vehicle identification requirements are met.

E. Secure non-containerized (un-palletized) waste to the transport vehicle.

6.6.10 **If** visibility of equipment operator is restricted, **or** if the load contains bulk containers, **then** use a spotter to load and move the containers.

6.6.11 Strap together waste containers of the same size being transported on each pallet with a ratchet strap of adequate load strength.

6.6.12 Segregate waste containers of different sizes to ensure that they can be properly secured.

6.6.13 Load individual waste containers and/or pallets of waste containers onto the transport vehicle using appropriate methods to ensure that containers are not dropped or otherwise damaged and personnel safety is not endangered.

6.6.14 Inspect loads of waste containers on vehicles to ensure that they have been properly secured for transport.

6.6.15 Inspect **and** verify that PCB waste containers that contain more than 99 lbs of liquid, **or if** one or more PCB transformers are transported, that the transport vehicle is marked with PCB M_L labels or signs on each end and both sides.

NOTE:

For bulk cargo containers, PCB M_L Labels may be affixed to all four sides of the container instead of the transport vehicle as long as the markings are visible from each side of the conveyance.

6.6.16 Transport the load of waste containers to the location specified on the RFD and/or the work control document using safe routes and appropriate driving practices.

6.7 Transfer of Waste Containers and Other Support Equipment Using a Flatbed Trailer or Similar Transport Vehicle

Field Engineer

6.7.1 Determine if the waste container(s) contain(s) a hazardous material as defined in 49 *CFR* Part 173.

6.7.2 Inspect the waste container using the packaging requirements as outlined in CP2-WM-0661.

6.7.3 Act as a technical contact in the event of an emergency response associated with the waste materials movement.

6.7.4 Communicate with personnel involved in the transfer the hazards associated with the waste container(s) as required in CP2-WM-0661.

Operator

6.7.5 Inspect and verify that the waste container(s) are properly marked and labeled according to CP2-WM-0011.

6.7.6 Before transporting the waste, drive the route to ensure the route is clear of obstructions or barricades.

6.7.7 **AVOID** transporting waste materials during periods of heavy vehicle or pedestrian traffic (i.e., Shift change).

6.7.8 Operate the transport vehicle in accordance with the requirements in CP2-SM-0020.

NOTE:

The side straps must be attached and the truck bed must be free of loose debris (gravel, trash, etc.).

6.7.9 **If** a flatbed truck is to be used to transport waste containers, **then**:

A. Park the truck in a location that will permit unobstructed loading and apply the parking brake prior to exiting the vehicle.

B. Inspect the truck bed, support post and side straps.

C. Use equipment only **if** in good condition.

6.7.10 **If** a forklift will be driving onto the truck bed to unload containers, **then** ensure that the wheels of the truck are chocked.

6.7.11 Segregate waste containers of different sizes to ensure that they can be properly secured.

6.7.12 Whenever practical, locate individual or groups of waste containers in a manner to balance **and** center the total load on the transport vehicle.

6.7.13 Secure waste containers strapped together on pallets and/or placed in approved containment devices to the bed of the truck or other transport vehicle by placing an additional pallet or approved device on the top of the load and then securing it to the vehicle using at least one 4-inch wide winch strap.

6.7.14 Segregate containers that have incompatible waste and transport them separately.

6.7.15 **If** empty waste containers are transported by truck, **then** placement of the containers on pallets is **NOT** required.

6.7.16 Secure the containers to the transport vehicle with straps or other approved methods to prevent shifting.

6.7.17 Inspect loads of waste containers on vehicles to ensure that they have been properly secured for transport.

6.7.18 Inspect **and** verify that vehicle(s) transporting PCB waste containers that contain more than 99 lbs (45 kg) of liquid, **or if** one or more PCB transformers are transported, are marked with PCB M_L labels or signs on each end and both sides.

NOTE:

For bulk cargo containers, PCB M_L Labels may be affixed to all four sides of the container instead of the transport vehicle as long as the markings are visible from each side of the conveyance.

6.7.19 Transport the load of waste containers to the location specified on the RFD using safe routes and appropriate driving practices.

WARNING:

Personnel are **NOT** allowed under or near a suspended load at any time during the loading of a transport vehicle to avoid the possibility of serious injury. Danger exists from falling objects.

Field Engineer

6.7.20 **If** local transport of waste containers will use roads that are also accessible to the public, **then** contact the Transportation Specialist to determine other requirements to comply with DOT regulations, **and** implement those requirements prior to transport.

6.7.21 **If** DOT requirements must be met, **then** obtain the total gross weight of each container and/or loaded transport vehicle, **and** include the weight ticket with the RFD and/or work control document.

6.8 Unloading and Relocating Waste Containers and Other Support Equipment

Operator

6.8.1 Verify acceptance of the waste containers at the receiving facility by the responsible Field Engineer or designee before unloading any container from the transport vehicle.

6.8.2 **If** the transport vehicle had special placards (e.g., Class 7 Radioactive) and markings/labels (e.g., PCB M_L) affixed to the vehicle during transport, **then** remove those placards unless they are needed for travel to the next destination.

6.8.3 **If** a flatbed truck was used to transport waste containers, **then** park the truck in a location that will permit unobstructed unloading, **and** apply the parking brake, **and** loosen the winch straps used to secure the load to the bed.

> **WARNING**:
>
> Personnel are **NOT** allowed under or near a suspended load at any time during the loading of a transport vehicle to avoid the possibility of serious injury. Danger exists from falling objects."
>
> A winch strap lodged between waste containers may cause a container, or a pallet of containers to fall if the strap is force-pulled in an attempt to remove it. This practice could result in personal injury, equipment damage, and/or an environmental spill.
>
> **If** a winch strap becomes lodged while removing containers or pallets of containers from a transport vehicle, **then DO NOT** climb onto the truck bed to dislodge the winch strap or try to force the strap to release. Contact the Site Supervisor for guidance.

6.8.4 Unload the waste container(s) from the transport vehicle using appropriate methods to ensure that containers are not dropped or otherwise damaged

6.8.5 **If** a forklift will be driving onto the truck bed to unload containers, **then** ensure that the wheels of the truck are chocked.

6.8.6 **When** the waste containers have been removed from the transport vehicle **and** the strapping is no longer needed for local handling, remove any strapping securing waste containers together.

6.8.7 Move each waste container to a location designated by the Field Engineer or designee in a safe manner that also satisfies other facility requirements.

6.8.8 **If** DOT requirements must be met, **then** obtain the total gross weight of the loaded transport vehicle, **and** include the weight ticket with the RFD and/or work control document.

7.0 ACCEPTANCE CRITERIA

None

8.0 POST PERFORMANCE WORK ACTIVITIES

<u>Operator</u>

8.1 Discuss with the FLS any difficulties experienced during the waste container movements and/or identify any potentially improved methods that could be considered for handling and/or transport of waste containers.

8.2 Document any post-work debrief and lessons learned in accordance with CP3-SM-1102, *Activity Level Work Execution and Closeout*.

FLS

8.3 Verify NMC&A transfer paperwork has been completed. Chg A

8.4 **If** NMC&A transfer paperwork was not completed by the MBA Custodian, forward NMC&A transfer paperwork to the MBA Custodian for completion.

8.5 Verify that all paperwork (e.g., RFDs and Container Verification form) related to the task has been completed.

8.6 Forward the completed paperwork and supporting documentation (characterization data, etc.) to the Field Engineer to be maintained as records.

8.7 Process any changes in the waste inventory to account for new waste or changed storage locations.

9.0 RECORDS

9.1 Records Generated

The following records may be generated by this procedure:

CP4-WM-0019-F01, "Container Verification and Inspection Form"

Forms are to be completed in accordance with CP3-OP-0024, *Forms Control*.

9.2 Records Disposition

The records are to be maintained in accordance with CP3-RD-0010, *Records Management Process*.

Appendix A – Acronyms/Definitions

ACRONYMS

AB – Authorization Basis

DOE – U.S. Department of Energy

FLS – Frontline Supervisor

FNRP – Four Rivers Nuclear Partnership, LLC

NMC&A – Nuclear Material Control and Accountability Chg A

PCB – Polychlorinated Biphenyls

PPE – personal protective equipment

PSS – Plant Shift Superintendent

RFD – Request for Disposal

TSR – Technical Safety Requirements

DEFINITIONS

HANDLING - Any movement of waste containers from one location to another. Handling of waste containers may involve only manual movements or be performed using specially equipped powered lifting devices, such as a forklift, powered lift, or a crane. In many cases, handling involves a combination of manual and powered methods.

RATCHET STRAP - A portable hand-held strap used to secure waste containers to each other and/or to secure waste containers to the mast of a forklift truck for transport.

SPOTTER - A designated person whose function is to direct industrial equipment operators under or near overhead installations or other hazardous travel obstructions or areas in order to ensure that required safe clearance is maintained.

SUPPORT EQUIPMENT - Any item or equipment that is used to perform waste management activities. These items include, but are not limited to new containers, personal protective equipment (PPE), emptied containers, new or used equipment, etc.

WASTE CONTAINER - Any packaging, can bottle, bag, barrel, drum, tank, or other device that contains waste. The waste article itself may also be the container.

WINCH STRAP - A strap attached to the transport vehicle used for securing pallets or containers to the vehicle.

Appendix B – Estimated Weights of Full Containers Lacking Weight Information

Container Type	Estimated Maximum Weight (Pounds)
5-gallon drum	80
10-gallon drum	200
30-gallon drum	400
55-gallon drum	880
85-gallon drum	1,500
110-gallon drum	2,000
B-25 Box	5,000
20 foot SeaLand Container	35,000

NOTE: The figures above represent the normally expected maximum weight of waste containers filled with typical waste material. Higher estimates are appropriate if such containers are known to contain concrete, gravel, lead, or uranium. Such containers may exceed rated capacities.

CP4-WM-0019-F01 - Container Verification and Inspection Form

Container Information

RFD/Container #_____ Barcode #_____ Date _____

Building/Grid_____ Project_____ Number of items on RFD _____

Container Type _____ Size _____UN Spec #(DOT #) _____
(drum, box, etc.) (5-gal, 55-gal, etc.) (AI/XI.42501076/USA, IA/IA2/X400/S98/USA, etc.)

Packaging is : ☐ Single container ☐ Lab Pack ☐ Overpack ☐ Seal # _____

Marking & Labeling (Check all boxes that apply)

☐ Markings are legible and in contrasting color from the container. _____
☐ Markings have been applied on the uppper on third of the container. _____
☐ Markings have been applied on the right of the drum seam. _____
☐ Required marking are on the container. (RFD#, contents, source, date, weight). _____
☐ Required markings are on the lid. (container number, contents). _____
☐ The correct date prefix has been applied to the container. _____
(RCRA, Hazardous "AB," PCB, " DTS," LLW, "GD")
☐ Labels have been appied on the upper on third of the container. _____
☐ Labels have been applied on the left of the drum seam. _____
☐ Information on the Waste container labels is accurate and complete. _____
☐ all marking and lables agree with the information supplied on the RFD and/or attachments. _____

Check all labels that appear on the container.

☐ Waste Container label ☐ DOE ☐ Hazardous ☐ PCB ☐ Detectable PCB ☐ Radioactive
☐ Confidential RD ☐ Transuranic ☐ NCS Spacing Exempt ☐ Fissionable ☐ Asbestos ☐ Tank label
☐ Acid ☐ Base ☐ Flammable ☐ Combustible ☐ Oxidizer ☐ Other _____
Marking and lableing is: ☐ Acceptable ☐Unacceptable

Name _____ Date _____

Container Condition and contents (Check all boxes that apply)

☐ Bulging top, bottom or sides ☐ Dents, holes or cracks ☐ Corrosion, paint deterioration
☐ Dirt or debris on container ☐ Loose bolt, ring, bung or lid ☐ Misaligned bolt and ring assembly
☐ Missing lid or bung gasket ☐ Lid without bungs (drums only) ☐ Missing or inadequate liner
☐ Inadequate void space ☐ Free liquids present (soils) ☐ No absorbent added (soils)
☐ Physical state matches RFD ☐ Other. _____
☐ Pallet used with this container is acceptable for storage.
☐ Container contents match with the information supplied on the RFD, attachments, or container log sheets.

List Nonconforming items, resolutions and correction:

NOTE: If contents are aquous liquid, check pH: _____
Container condition and contents are: ☐ Acceptable ☐ Unacceptable

Name _____ Date _____