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CP3-WM-0022 **FRev. 1**	**TITLE:** Waste Water Accumulation, Storage, and Disposal	Page 1 of 18

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1.0 PURPOSE AND SCOPE

1.1 Purpose

This procedure describes the requirements and steps to be followed for all waste water activities conducted by Four Rivers Nuclear Partnership, LLC (FRNP), which includes the proper accumulation, storage, and disposal of waste water. Users are to comply with state and federal regulations, U.S. Department of Energy (DOE) orders, and FRNP policies and procedures.

1.2 Scope

This procedure applies to all FRNP personnel involved in using or supporting operation for the interim storage, transportation, and discharge of waste water on and off site.
Waste waters that can be directly discharged on-site without interim storage may be addressed under CP3-ES-0007, *Approval to Discharge Air or Water,* without following this procedure. Examples for current waste streams exempted from this procedure include:

- Continuous flow systems (i.e. C-400 Remedial Action, Southwest Plume)
- Waste water samples exempted under 40 *Code of Federal Regulations (CFR*) 261.4(a)(1) and 40 *CFR* 261.4(a)(2)
- Storm water discharges

2.0 REFERENCES

2.1 Use References

- 40 *CFR* 261, *Identification and Listing of Hazardous Waste*
- CP2-SM-1000, *Activity Level Work Planning and Control Program*
- 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*
- CP3-ES-0003,*Environmental Incident Reporting*
- CP3-WM-0437, *Waste Characterization and Profiling*
- CP3-WM-3015, *Waste Packaging*
- CP3-WM-3030, *Commercial Motor Vehicle Operations*
- CP4-ES-0038, *Sampling Containerized Waste*
- CP4-WM-0034, *PCB Spill Management – Waste Management*

2.2 Source References

- Hazardous Waste Facility Permit (KY88900008982)
- Kentucky Pollutant Discharge Elimination System (KPDES) Permit (KY0004049)
- 401 *Kentucky Administrative Regulations* (*KAR*) 10:031, Surface Water Standards
- DOE Order 458.1, *Radiation Protection of the Public and the Environment*
- CP2-WM-0661, *Transportation Safety Document for On-Site Transportation Within the Paducah Gaseous Diffusion Plant*
- CP3-ES-0007, *Approval to Discharge Air or Water*
- CP3-QA-2500, *Procurement, Inspection and Management of Items Critical for Paducah Off-Site Waste Shipments*
- CP3-WM-0015, *Management of Fissile Waste Materials*
- CP3-WM-0016, *Waste Handling and Storage in DOE Waste Storage Facilities*
- CP3-WM-0019, *On-Site Transfer and Movement of Waste Containers and Other Support Equipment*
- CP3-WM-1017, *Safe Handling and Opening of Sealed Containers*
- CP3-WM-3028, *Off-Site Shipping*
- PAD-REG-1005, *Spill Prevention, Control, and Countermeasure Plan for the U.S. Department of Energy Paducah Site, McCracken County, Kentucky*

3.0 COMMITMENTS

None

4.0 PRECAUTIONS AND LIMITATIONS

4.1 Precautions

None

4.2 Limitations

4.2.1 According to 40 *CFR* 261.7, *Residues of Hazardous Waste in Empty Containers*, containers that have held hazardous waste are not considered emptied until all liquid that can practicably be removed has been and either 1) there is no more than 1 inch of residue remaining, or 2) no more than 3% by weight of container total capacity remains in a container sized 110 gallons or less, or 3) no more than 0.3% by weight of total capacity of the container remains in containers > 110 gallons. If waste water is placed in a container that previously held listed hazardous waste and the container was not emptied, then the mixture is a listed hazardous waste.

4.2.2 Polychlorinated biphenyl (PCB) PCB containers are required to be decontaminated according to 40 *CFR* 761.79 - Decontamination Standards and Procedures, in order to be considered empty.

4.2.3 Waste water intended for storage in locations other than Waste Storage Facilities must have Facility Manager (FM) written approval prior to movement into those locations.

4.2.4 The position titles used to identify responsible individuals in this procedure are understood to also include their designees.

4.2.5 Treatment of waste shall only be performed at facilities permitted to treat waste. The approval of the Facility Manager is required prior to performing any treatment of waste.

4.2.6 Low-level wastes cannot be stored or treated in units (e.g., treatment canisters, poly containers, filters, pumps, hoses) previously containing hazardous PCB Toxic Substance Control Act (TSCA) regulated wastes that have not been adequately removed/cleaned from the units without written authorization from Waste Management.

4.2.7 Filtering to only remove suspended solids from liquids is not considered treatment of waste.

4.2.8 Water treated through or sludge/media removed from a unit that previously treated listed hazardous waste is also listed hazardous waste under the derived from rule (40 *CFR* 261.3(c)).

4.2.9 Water treated through or sludge/media removed from a unit previously used to treat PCB waste is to be managed as PCB Remediation Waste (40 *CFR* 761.79(g)(1)).

4.2.10 Water placed in a container must be compatible with the previous and/or current contents of the container.

4.2.11 All drips/spills must be promptly cleaned up and reported according to CP3-ES-0003, *Environmental Incident Reporting.*

4.2.12 For waste water being transferred to non-bulk containers (e.g., ≤ 110 gallon drums and totes), do not exceed 90% of the container's capacity.

4.2.13 Waste water with listed hazardous waste codes (F001, F002 and U228) must be treated at an approved treatment Facility, such as C-612 Pump, Treat Facility, C-752-A, etc., to remove listings prior to discharging an approved Outfall . This treatment must be approved by Regulatory Compliance, 458.1 Compliance Manager and C-612 FM prior to treatment.

5.0 PREREQUISITES

5.1 Prior to using a commercial motor vehicle for the transport of waste water, drivers and vehicles must meet the requirements according to CP3-WM-3030, *Commercial Motor Vehicle Operations*.

6.0 INSTRUCTIONS

6.1 Collection and Storage Requirements for Waste Water

Project Manager/Field EngineerFLS

NOTE:
The following steps may be performed out of sequence as necessary.

6.1.1 Notify the appropriate Waste Engineer in writing of the need to accumulate or discharge waste waters **and** include the following information:

- estimated volume
- waste stream source
- project number
- charge code
- primary point of contact

Waste Engineer

6.1.2 Assign container(s) (if applicable) from those available that are compatible with the waste generator's volume needs, waste type, and estimated duration of accumulation.

6.1.3 When possible, select Resource Conservation Recovery Act (RCRA) compatible containers for known or suspected RCRA waste and TSCA containers for known or suspected TSCA waste.

6.1.4 For reusable waste containers, check the container database to ensure the previous contents of the containers have been sufficiently removed and the containers are compatible with the proposed content.

6.1.5 **If** storing waste water in Waste Storage Facilities, **then** manage inventory control according to CP2-WM-0006, *Facility Safety Basis Inventory Control Plan for Paducah Waste Storage Facilities*.

6.1.6 During storage, segregate waste containers known to have the potential of being RCRA waste from non-RCRA waste and PCB waste from non-PCB waste.

6.1.7 **When** applicable **and when** post-treatment data analysis and/or evaluation warrant such action, combine waste waters for disposition. Track waste waters in electronic format, including: volumes, container numbers, waste identifications (WIDs), locations, etc.

Project Manager/Waste Engineer/Field Engineer

6.1.8 Complete the appropriate sections of CP2-WM-0011-F02, "Request for Disposal" (RFD [from this point forward will be referred to as the RFD]) and CP3-WM-3015-F01, "Waste Item Container Log Sheet" (WICL [from this point forward will be referred to as the WICL]) according to CP2-WM-0011, *Waste Acceptance Criteria for the Treatment, Storage, and Disposal Facilities at the Paducah DOE Site* and CP3-WM-3015, *Waste Packaging* **and** submit it to the Waste Engineer.

Waste Engineer

6.1.9 Review the RFD for accuracy and completeness.

6.1.10 **If** the RFD is inaccurate and/or missing appropriate information, **then** return it to the Waste Generator for correction.

6.1.11 Obtain Authorization Basis (AB) approval prior to relocating waste water to a Waste Storage Facility.

6.1.12 **If** available, **then** review data to determine if Nuclear Criticality support is needed for radioactive waste.

Database Administrator

6.1.13 Enter the RFD information into the waste tracking system **and** complete all appropriate fields.

6.1.14 Return the RFD to the Operator/Frontline Supervisor (FLS) if it is in collection status, **or** file it in Document Control at C-743-T15.

Operator

6.1.15 Process the container(s) by marking, labeling, etc., according to CP2-WM-0011.

Waste Engineer/FLS

6.1.16 Prior to transfer of waste water to containers, review previous equipment use to determine if decontamination between waste streams is required to prevent incompatible reactions and/or inadvertent generation of regulated waste (PCB and/or RCRA).

6.1.17 **If** equipment required for transfer needs to be decontaminated prior to use, **then** contact Radiological Controls (RADCON) for support and guidance for decontaminating, **and** contact Regulatory Compliance for decontamination of RCRA and/or TSCA items.

6.1.18 Prior to accepting it into a waste storage facility or discharging it, ensure waste water has been adequately characterized according to CP2-WM-0011, **or** obtain an approved CP2-WM-0011-F01, "Waste Variance Request."

Operator/FLS

6.1.19 Prior to handling potentially radiologically contaminated liquids and equipment, Ensure RADCON has determined whether or not a Radiological Work Permit (RWP) is required.

6.1.20 **When** transferring or treating radioactively-contaminated waste water, **and when** breaking connections and/or dismantling equipment, follow RADCON guidance.

6.1.21 **If** waste water is known or suspected to contain PCB regulated waste or carries an F039 EPA code, **then** use dedicated equipment.

6.1.22 **If** a gas-powered pump is to be used, **then** position the pump in a well-ventilated area to dissipate any fuel and/or exhaust vapors, **and** connect the hoses to the container(s) and the gas-powered pump.

6.1.23 Check tightness of transfer equipment connections **and** secure hoses to minimize the chance of spills during transfer.

6.1.24 Carefully transfer the waste water to the storage container(s).

6.1.25 During transfer, inspect the area for signs of leaks and/or spills.

6.1.26 **If** leakage has been detected, **then** shut pump off, close valves, **and** contact the FLS for proper disposition.

6.1.27 **If** a spill occurs, **then** follow Steps **6.1.29** through **6.1.31**.

6.1.28 Notify Waste Operations, Regulatory Compliance and the Plant Shift Superintendent (PSS) where the spill has occurred and the approximate volume.

6.1.29 Initiate spill tracking information according to CP3-ES-0003.

6.1.30 **If** required by the PSS and PCB regulated waste is involved in the spill, **then** initiate occurrence reporting and spill cleanup activities in accordance with CP4-WM-0034, *PCB Spill Management- Waste Management*.

6.1.31 At completion of transfer **and if** large poly containers are utilized, **then** verify the discharge/drain and fill valves are shut, as applicable, on the containers used.

6.1.32 At completion of transfer, record the following data on form WICL:

- Source of waste water (e.g., associated drum, well numbers, project number, facility, runoff area, pit, dike, sump, etc.)
- Date(s) of transfer
- Total volume following transfer(s) (measured in gallons).

6.1.33 Record the generation date on the waste container label using a permanent marker.

6.1.34 **If** the container will remain in collection status, **then** place the WICL in a plastic sleeve **and** attach it to, or in close proximity of, the container.

6.1.35 **If** no other transfers of liquid are to be made to a container, **then** complete the appropriate information on the RFD and WICL **and** return them to the FLS.

FLS

6.1.36 Provide RFD and WICL to the Waste Engineer/Field Engineer

Field Engineer

6.1.37 Visually verify the appropriate sections of the RFD and WICL(s) have been completed.

6.1.38 Provide the RFD and WICL(s) to the Database Administrator.

6.1.39 When containers are either full or waste collection is complete, notify the Waste Engineer within five (5) working days of final container generation.

Waste Engineer

6.1.40 Review the RFD form and WICL(s) to ensure the Waste Generator/Waste Operator has supplied all required information.

6.1.41 **If** needed, **then** issue further instructions to the FLS/Field Engineer/Field Coordinator for the handling and storage of the waste water.

6.1.42 **If** the appropriate information has been included, **then** sign **and** date the WICL(s).

6.1.43 **If** the RFD package (including WICL(s)) has been properly completed, **then** sign **and** date at the bottom of the first page of the RFD.

Database Administrator

6.1.44 Update database waste tracking documentation within five (5) days of receipt of initial RFD or changes/additions to the RFD.

Waste Operations Manager

6.1.45 Direct further movement of the waste water from instructions provided by the Waste Engineer.

6.2 Waste Water Sampling and Disposition

Waste Engineer

NOTE:

Well development and or Decon water which are project specific may have a project specific Sample and Analysis Plan written.

6.2.1 For waste water requiring sampling, complete form CP2-WM-0307-F01, "Blanket Sample Request Form", according to CP2-WM-0307, *Paducah Waste Characterization Sampling and Analysis Plan,* **and** submit it to the Database Administrator.

Sampler

NOTE:

Sampling of non-routine waste water should be discussed with Regulatory Compliance to determine analytical requirements.

6.2.2 Sample the waste water according to CP4-ES-0038, *Sampling Containerized Waste*.

6.2.3 Provide sample(s) to the appropriate laboratory.

Radiological Control Technician

6.2.4 Survey tools and items used for sampling of radioactive waste water.

Waste Engineer

6.2.5 **When** available, review the appropriate data assessment information after sampling data has been assessed.

6.2.6 Add an electronic copy of the assessed sampling data to the appropriate characterization folder according to CP3-WM-0437, *Waste Characterization and Profiling*, **and** complete a base characterization package or verification into an existing characterization package.

6.2.7 For waste water that is a candidate for on-site treatment and/or discharge, complete Section A of CP3-WM-0022-F01, "Waste Water Discharge Approval Form", sign on the appropriate line in Section C, add appropriate analytical data (if available), and forward the approval form to the Regulatory Compliance Manager/Regulatory Compliance Specialist for review.

Regulatory Compliance Manager/Regulatory Compliance Specialist

6.2.8 Review CP3-WM-0022-F01 and any attached analytical data and/or process knowledge information.

6.2.9 **If** the waste water is determined to be unacceptable for discharge, **then** check the "disapproved" box, provide an explanation of disapproval in the comments section, sign the approval form on the appropriate line in Section C, return the form to the Waste Engineer, **and** proceed to Step **6.2.17**.

6.2.10 **If** the waste water is determined to be acceptable for discharge based on meeting regulatory requirements, **then** designate the appropriate disposition path, sign the form on the appropriate line in Section C, **and** forward it to the FRNP DOE O 458.1 Compliance Manager.

FRNP DOE O 458.1 Compliance Manager

6.2.11 Review the CP3-WM-0022-F01 and any attached analytical data and/or process knowledge information.

6.2.12 **If** the waste water meets applicable radiological standards for discharge to the designated location, **then** sign **and** date on the appropriate line in Section C, return the form to the Waste Engineer, **and** proceed to Step **6.2.20**.

6.2.13 **If** the waste water does not meet radiological standards for discharge to the designated location, **then** consult with Regulatory Compliance to determine if there is an acceptable alternate location.

6.2.14 **If** an alternate location is agreed to with Regulatory Compliance, **then** obtain written concurrence from Regulatory Compliance, indicate the appropriate discharge location on the form, sign **and** return the form to the Waste Engineer, **and** proceed to Step **6.2.20**.

6.2.15 **If** an acceptable location for discharge is not available, **then** check the "disapproved" box, provide an explanation in the comments section, **and** return the form to the Waste Engineer.

Waste Engineer

6.2.16 **If** Regulatory Compliance and/or the FRNP DOE O 458.1 Compliance Manager have determined the waste water is not a candidate for on-site discharge, **then** decide whether or not it should be treated on site or transported off site for disposition.

6.2.17 For waste water requiring on-site treatment, follow CP4-WM-0700, *C-752-A Waste Water Treatment Instructions*, for carbon treatment at C-752-A, or follow other applicable work control according to CP2-SM-1000, *Activity Level Work Planning and Control Program.*

6.2.18 For waste water requiring off-site transfer via shipping tanker or bulk container, perform Steps **6.3.1** through **6.3.22**, or follow or other applicable work control according to CP2-SM-1000.

6.2.19 **If** on-site discharge approval has been obtained, **then** forward a copy of the approval form to the Waste Operations Manager **and** provide direction on where **and** how to discharge the waste water.

FLS/Operator

6.2.20 **If** necessary, **then** transfer the waste water to be discharged into a mobile poly container, **and** transfer the mobile container or original effluent container to the discharge point indicated on the discharge approval form.

6.2.21 Open the release valve on the waste water container to commence gravity flow. **If** required, **then** the valve should be adjusted to control flow rate as directed by Regulatory Compliance and/or Waste Engineer.

6.2.22 Verify the container is empty **and** close the discharge valve after completion of transfer.

6.2.23 Write the date of discharge **and** initial at the bottom of the discharge approval form.

6.2.24 Return the completed discharge approval form to the Data Administrator.

6.3 Off-Site Transfer via Transport Tanker or Bulk Container

Waste Engineer

NOTE:

Off-site transportation of listed hazardous waste requires transportation personnel to placard vehicle, label containers and manifest the transport of waste.

6.3.1 Notify Waste Transportation personnel of intent to transfer bulk quantities of waste water to an off-site facility.

6.3.2 Specify the receiving off-site facility, approximate volume, waste stream source, project number, charge code, RFD number and other applicable information as outlined according to CP3-WM-3015.

6.3.3 **If** required, obtain AB approval prior to movement of any transport tanker to the FRNP site.

6.3.4 Relay information pertaining to any waste heels in transport tankers/containers prior to delivery to AB Inventory personnel.

6.3.5 Contact Site Security for permission to move the transport tanker/container inside the limited area.

NOTE:

When transferring radioactive liquids, an RWP may be required in certain cases. A Radiological Control Technician shall verify that all Hold Points and Limiting Conditions have **NOT** been exceeded through "in progress" surveys.

6.3.6 Provide analytical data to the Project Health Physicist for review prior to transferring radioactive liquids.

FLS

6.3.7 Coordinate movement of the transport tanker/container on site.

FLS/ Operator

6.3.8 Process the transport tanker/container for filling by marking, labeling, etc., in accordance with the receiving facility's waste acceptance criteria

6.3.9 Establish a diked area or ensure a containment is utilized that can accommodate the total volume of the waste water for each shipment.

NOTE:

If required, the transport carrier provides necessary grounding according to their company requirements .

6.3.10 **If** grounding is required for the transfer tanker/container, **then** contact Fire Services prior to transferring the liquid.

6.3.11 **If** applicable, **then** obtain AB approval prior to relocating waste container(s).

6.3.12 Relocate **and/or** stage the water that is to be pumped into the tanker.

6.3.13 Locate pump(s) in a well-ventilated area to dissipate any fuel and/or exhaust fumes.

6.3.14 **If** a transfer pump is used, connect hoses to the tanker **and** pump.

6.3.15 Verify tightness of the connections with proper tools, secure **and** wrap hoses and valves, **and** use absorbent pads/drip pans as needed to minimize the chance and severity of a spill during transfer.

FLS

6.3.16 **When** breaking connections and/or dismantling equipment, contact RADCON and Industrial Hygiene for support prior to pumping any radioactive liquids and/or hazardous liquids.

FLS/Operator

6.3.17 Carefully transfer the liquid from waste container(s) to the transport tanker or approved bulk shipping container(s).

6.3.18 Visually verify that no liquid has been spilled during transfer **and** verify all containers have been emptied to the greatest extent practical.

6.3.19 **If** a spill or leak occurs, **then** promptly clean it up **and** report it according to CP3-ES-0003.

6.3.20 Mark empty containers according to CP2-WM-0011.

6.3.21 **If** they are not required, **then** remove markings and labels from containers.

6.3.22 Unless they have been verified no longer PCB and/or radioactively contaminated, keep PCB M_L labels and/or radioactive labels on containers, **and if** necessary, **then** replace.

6.3.23 Prior to removing “RCRA” labels, confirm containers are “RCRA Empty.”

FLS

6.3.24 For RCRA containers required to be empty, consult with the Waste Engineer on proper method of achieving "RCRA Empty" status **and when** empty status has been achieved complete CP3-WM-0022-F02, "RCRA Empty Verification Form" . (See Step **4.2.1**).

FLS

6.3.25 Physically check to ensure the top opening on the emptied container is closed to prevent entry of contaminants (such as dust or rainwater). **If** required, **then** relocate the emptied container.

6.3.26 Complete the RFD and WICL(s) **and** return them to the Database Administrator.

6.3.27 Notify the Waste Engineer of the status of the containers.

Waste Engineer

6.3.1 **When** the waste water is relocated off-site, notify AB inventory personnel.

7.0 ACCEPTANCE CRITERIA

None

8.0 POST PERFORMANCE WORK ACTIVITIES

FLS/Operator

8.1.1 Complete local housekeeping activities after each task is performed and at the end of each work shift.

8.1.2 Visually check to ensure all items/equipment are surveyed by RADCON prior to removal from a radiologically controlled area.

8.1.3 **If** PCB waste is generated by the treatment process, **then** visually inspect it to ensure all waste is marked, inventoried, stored, and/or properly disposed.

8.1.4 For PCB dedicated equipment, visually inspect it to ensure it is marked properly and stored in an area kept locked or under other adequate administrative control.

8.1.5 Forward original copies of data sheets and/or completed forms to the Database Administrator.

Superintendent/FLS

8.1.6 Complete local housekeeping activities after each task is performed and at the end of each work shift.

8.1.7 Visually check to ensure all items/equipment are surveyed by RADCON prior to removal from a radiologically controlled area.

8.1.8 **If** PCB waste is generated by the treatment process, **then** visually inspect it to ensure all waste is marked, inventoried, stored, and/or properly disposed.

8.1.9 For PCB dedicated equipment, visually inspect it to ensure it is marked properly and stored in an area kept locked or under other adequate administrative control.

8.1.10 Forward original copies of data sheets and/or completed forms to the Database Administrator.

9.0 RECORDS

9.1 Records Generated

The following records may be generated by this procedure:

- CP3-WM-3022-F01, "Waste Water Discharge Approval Form"
- CP3-WM-3022-F02, "RCRA Empty Verification Form"

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

CFR – *Code of Federal Regulations*

DOE – U.S. Department of Energy

FLS – Frontline Supervisor

FM – Facility Manager

FRNP – Four Rivers Nuclear Partnership, LLC

PCB – Polychlorinated Biphenyl

PSS – Plant Shift Superintendent

RCRA– Resource Conservation and Recovery Act

RADCON – Radiological Control

RFD – Request for Disposal

RWP – Radiological Work Permit

TSCA – Toxic Substance Control Act

WICL – Waste Item Container Log

DEFINITIONS

Dike – An embankment or ridge of either natural or man-made materials used to prevent the movement of liquids, sludge, solids, or other materials.

FRNP DOE O 458.1 Compliance Manager – Person(s) designated to review, evaluate, and approve radiological releases for compliance with DOE Order 458.1, identify an appropriate dose model, calculate approximate dose to public and biota, assess impacts to cumulative site dose totals, and report doses and radiological release to the Department of Energy as required by DOE Order 458.1

Waste Generator – An individual (such as Facility Manager, supervisor of a waste-generating activity, or appointee) or organization whose act or process produces waste to be managed for the DOE.

CP3-WM-0022-F01 – Waste Water Discharge Approval Form

Section A **(Completed by Waste Engineer)**

Requestor: _____ **Waste ID (WID):** _____
Characterization Package Number: _____
Waste Water Storage Container: _____
Ongoing Discharges of Same Waste Stream?: ___ YES ___ NO

Section B **(Completed by Regulatory Compliance)**
Discharge Location:

☐ KPDES-001 Outfall ☐ Ditch Leading to KPDES-001 Outfall

☐ C-612 Pump and Treat Facility (Note: Facility Manager Approval Required)

☐ C-613 Stormwater Collection Basin (Note: Facility Manager Approval Required)

☐ Other _____

☐ **APPROVED FOR RELEASE** ☐ **DISAPPROVED**

COMMENTS: _____

_____

Section C

_____ _____
Waste Engineer Print/Sign Date

_____ _____
Regulatory Compliance Print/Sign Date

_____ _____
FRNP DOE O 458.1 Compliance Manager Print/Sign Date

_____ _____
Facility Manager (Required for C-612 and C-613) Print/Sign Date

Section D **(Completed by Front Line Supervisor)**

DATE OF DISCHARGE: _____ Verified: _____
Print/Sign Date

Note: Following discharge, provide original completed form to the Database Administrator and a copy to the Waste Engineer.

CP3-WM-0022-F02 – RCRA Empty Verification Form

Date_____ Waste ID # (s):_____
_____
_____
_____

Containers holding hazardous waste are not considered emptied until all liquid that can practicably be removed has been and no more than 1 inch of residue remains.

Verification and sign-off is required to validate that a "RCRA Empty" status has been achieved.

Per 40CFR261.7 container is empty if:

1 - All wastes have been removed that can be removed using the Practices commonly employed to remove materials from that type of container, e.g., pouring, pumping, and aspirating, and

2 - No more than 2.5 centimeters (one inch) of residue remain on the bottom of the container or inner liner, or

3 - No more than 3 percent by weight of the total capacity of the container remains in the container or inner liner if the container is less than or equal to 119 gallons in size; or

4 - No more than 0.3 percent by weight of the total capacity of the container remains in the container or inner liner if the container is greater than 119 gallons in size.

5 - A container or an inner liner removed from a container that has held an acute hazardous waste listed in Sec. Sec. 261.31, 261.32, or 261.33(e) is empty if:

a. The container or inner liner has been triple rinsed using a solvent capable of removing the commercial chemical product or manufacturing chemical intermediate;

b. The container or inner liner has been cleaned by another method that has been shown in the scientific literature, or by tests conducted by the generator, to achieve equivalent removal; or

c. In the case of a container, the inner liner that prevented contact of the commercial chemical product or manufacturing chemical intermediate with the container has been removed.

Inspected by:_____ Date:_____

Reviewed by:_____ Date:_____

Completed forms should be filed with the appropriate RFD.