
Oak Ridge National Laboratory (ORNL)
Transportation and Packaging Management (TPM)
Container Preparation and Filling Instructions/Checklist

RCM ST-90 Strong Tight Container (STC) [for information only]

ORNL-CHK-09, Rev. 0

Issued: 5/15/1997

This item is not available through Stores

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INSTRUCTIONS: Complete the activities below following the instructions in Section A. Activities should be checked off as performed. The completed checklist should then be signed by the Operating Personnel completing the checklist and submitted to the Operations Supervisor for approval for shipment.

NOTE 1: The RCM Strong Tight Container (STC) is for **solid material only**. However, **it must be specifically controlled due to its RAD contamination**.

NOTE 2: The maximum gross weight for the STC is 10,000 pounds. However, at certain Waste Management Organization (WMO) storage areas, a lower weight limitation is imposed. This should be verified based on the receiving facility's operating instructions prior to loading.

NOTE 3: The forklift lid lifting bracket on each STC lid is NOT designed to lift the weight of the entire container (empty or loaded). The bottom forklift channels **MUST** be used for movement of the containers.

A. RCM STC-90 Painted (Stores #02-119-4501) 90 cu. ft. Container

**Operating
Personnel**

- _____ 1. Inspect the container, prior to filling, to ensure that it is in good physical condition; that there are no forklift blade punctures, that the forklift base and lid lifting channel is not seriously damaged; that the lid fits the container, and that no severe corrosion, etc. exist that could cause or develop into a leak during normal storage or in transportation.

NOTE: The STC lid gasket is installed in each container lid prior to being shipped.

- _____ 2. Inspect the gasket to ensure that it is in good condition and adhered to the lid completely around the lid edge with that there are no gaps at the corners.

- _____ 3. Fill the container in accordance with **NOTE 2**.

- _____ 4. Place the lid on the container using the forklift lid lifting channel.

The lid should fit the container such that there is no severe binding that would interfere with the alignment and bolting of the lid close to the body of the container.

- _____ 5. Close the STC lid securely by inserting and tightening down the 12 each (3 per side) 3/8 inch (1/2 inch minimum) bolts and nuts furnished with the container.

- _____ 6. Label, mark, and identify the container per the current WMO operating directives.

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A. RCM STC-90 Painted (Stores #02-119-4501) 90 cu. ft. Container (cont'd)

Operating
Personnel

- _____ 7. **IF** instructions are not found in the WMO procedures, **THEN** Contact the ORNL Transportation and Packaging Management organization for the appropriate Department of Transportation determinations.

NOTE: The container must have markings which identify the Specific Activity of each RCM container.

- _____ 8. Remove (pull) the ring-grip quick release self-locking pins (4 each) from the forklift lid lifting bracket.

- _____ 9. Invert the lid lifting bracket, placing the bracket inside the holding angle, and align with the holes for the locking pins.

- _____ 10. Reinsert the quick release self-locking pins through the holding angle and the lifting bracket until the spring-loaded ball engages.

NOTE: Initial shipments of the RCM containers were equipped with machine screws which were to be replaced in the field with the quick release self-locking pins (requires re-drilling for a 3/16 inch hole).

Any RCM containers to be shipped still containing the machine screws in the lid lifting channel require that the screws be removed and the lifting channel be inverted in the same manner as for the self-locking pins.

- _____ 11. Replace any damaged quick release self-locking pins or machine screws (from Stores inventory or operating plant stock).

- _____ 12. Sign and date the checklist in the appropriate signature block verifying that the activities have been performed, and checklist has been completed.

- _____ 13. Submit this completed checklist to the Operations Supervisor for approval for shipment.

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**A. RCM STC-90 Painted (Stores #02-119-4501) 90 cu. ft. Container
(cont'd)**

**Operations
Supervisor**

- _____ 14. Verify that all defined activities have been successfully completed.
- _____ 15. Sign and date the checklist in the appropriate signature block, approving the container for shipment.

APPROVED FOR SHIPMENT:

Operating Personnel:	Date:
Operations Supervisor:	Date:

Prepared by: ORNL TPM Organization

Approved by: Jeff Shelton April 24, 2000

Jeff Shelton, Manager (576-6401)

ORNL TPM - Packaging Operations

[Note: Original checklist approved by Mark Hawk, 5/15/1997; only heading format and signature block revised April 24, 2000 and signed by Jeff Shelton.]