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

**ST-90 Strong Tight Container (STC)** [*available at Y-12 only*]

**ORNL-CHK-07, Rev. 1**

Issued: 5/15/1997

Revised: 3/15/2000

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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 Strong Tight Container (STC) is for *solid material only*.

**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.

**NOTE 4:** A waiver has been granted to LMES-LMER/DOE by the DOT (*DOT letter of February 14, 1997*) eliminating the requirement for the lid lifting channel to be made inoperative prior to shipment [per 49 CFR, &173.410(b)], as it has been deemed it could not reasonably be considered as a means to lift the container.

**A. STC-90 Painted 90 cu. ft. Container (Stores No. 02-119-4500)**  
**STC-90 Galvanized 90 cu. ft. Container (Stores No. 02-119-4510)**

*Note: Items marked (#) are solely generator's/filler's responsibility.*

**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 by the manufacturer.

- \_\_\_\_\_ 2. (#) Inspect the gasket to ensure that it is in good condition and adhered to the lid completely around the lid edge and that there are no gaps at the corners.
- \_\_\_\_\_ 3. Fill the container in accordance with **NOTE 2**. [Gross maximum weight per tare (empty) weight markings in ID plate.]
- \_\_\_\_\_ 4. (#) Ensure that the material being filled into the container is compatible with (will not react, soften, or attack) the internal steel construction of the container.

**FOR INTERNAL USE ONLY**

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- \_\_\_\_\_ 5. Place the lid on the container using the forklift lid lifting channel. The lid should fit the container so that there is no severe binding that would interfere with the alignment and bolting of the lid to the body of the container.

**NOTE:** The ST-90 design will have a limited number of containers in the field with a non-permanent type lid lifting attachment mounted to the lids with a quick release pin.

Prior to lifting with these lifting channels - Inspect and replace any damaged quick release self-locking pins (from Stores inventory or operating plant stock) or with permanent bolts.

- \_\_\_\_\_ 6. 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.

- \_\_\_\_\_ 7. Inspect container to ensure gasket has not come loose and is not hanging out from lid.

- \_\_\_\_\_ 8. Label, mark, and identify the container per the current WMO operating directives, if applicable.

- \_\_\_\_\_ 9. **IF** instructions are not found in the WMO procedures, **THEN** Contact the ORNL Transportation and Packaging Management Organization for the appropriate Department of Transportation (DOT) determinations.

- \_\_\_\_\_ 10. Sign and date the checklist in the appropriate signature block verifying that the activities have been performed, and the checklist has been completed.

- \_\_\_\_\_ 11. Submit this completed checklist to the Operations Supervisor for approval for shipment.

**Operations  
Supervisor**

- \_\_\_\_\_ 12. Verify that all defined activities have been successfully completed.

- \_\_\_\_\_ 13. Sign and date the checklist in the appropriate signature block, approving the container for shipment.

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**APPROVED FOR SHIPMENT:**

<b>Operating Personnel:</b>	<b>Date:</b>
<b>Operations Supervisor:</b>	<b>Date:</b>

**Prepared by:** ORNL TPM Organization

**Approved by:** Jeff Shelton April 24, 2000  
Jeff Shelton, Manager (576-6401) Date  
ORNL TPM - Packaging Operations