

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

ORNL-1 Strong Tight Container (STC)

ORNL-PKG-46, Rev. 0

Issued: 5/14/2003

Revised:

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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 ORNL-1 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. (It should also be noted that older ORNL container Butterfly clip closures were rated at only 8,000 pounds of gross weight.)

NOTE 3: The bottom forklift channels are removable.

**A. ORNL-1 Painted 90 cu. ft. Container
Stores Catalog No. 02-119-4600**

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 now 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](#) above-- Maximum allowable gross weight per marked tare (empty) weight.

- _____ 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.

- _____ 5. Place the lid on the container using the four retractable hand handles.

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.

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- _____ 6. Close the STC lid securely by inserting and tightening down the 12 each (3 per side) bolts and nuts furnished with each container.

NOTE 1: Older ORNL-1 containers in the system have different closure systems:

- (a) Butterfly clamp closures;
- (b) Swing T-bolt closures.

All of which must be inspected to ensure they are closed properly, and are not damage or missing.

NOTE 2: For containers from Philotechnics, recommended torque value for bolt closure is 25 – 30 ft-lbs.

NOTE 3: For containers from CTI, recommended torque value for bolt closure is 30 ft-lbs, \pm 5.

- _____ 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. Ensure all removable forklift channels are securely in place on bottom of the container.
- _____ 11. Sign and date the checklist in the appropriate signature block verifying that the activities have been performed and checklist has been completed.
- _____ 12. Submit this completed checklist to the Operations Supervisor for approval for shipment.

FOR INTERNAL USE ONLY

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**Operations
Supervisor**

- _____ 13. Verify that all defined activities have been successfully completed.
- _____ 14. 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: [signature on file] May 14, 2003
Jeff Shelton, Manager (576-6401)
ORNL TPM - Packaging Operations