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

Type A 7A Drums – 30 Gal	lon Size, Lever Lock Closure	ORNL-PKG-53, Rev. 0
Issued: 03/01/2004	Revised:	Page 1 of 3

INSTRUCTIONS: Complete the activities requested below following the instructions in Section A.

NOTE 1: Type A 7A Drums are used for solid material only, any particle size (e.g., Form Nos. 1, 2,&3.)

- NOTE 2: The maximum gross weight for UN1A2 is 235 kilograms (517 lbs.) for Type A use.
- **NOTE 3:** The drum needs to retain its original configuration as purchased.

NOTE 4: Complete Type A documentation must be kept on file one (1) year after latest shipment of packaging. It is necessary for the shipper to compare the physical characteristics of the planned load with the test load to show compatibility. See <u>Attachment A</u>.

A. UN1A2 (30 Gallon Size, Lever Lock Closure) Stores Catalog No. 02-112-6530

Operating Personnel



7 - Expanded ring being placed on Drum



8 - Lever being closed slowly

- 1. Visually inspect the drum, lid, and lever lock ring for rust, damage, dents, and defects.
- 2. Visually inspect the lid gasket for wearing or tears.
- 3. Report any deficiencies to the Packaging Supervisor.
- 4. Securely position the contents.
- 5. Ensure that the gasket is properly fitted into the cover groove.
- 6. Position the cover on to the drum curl, being careful to ensure that the gasket sits around the bead.
- 7. Fully open the Toggle Lever and place the expanded ring on to the drum cover with the vertical-skirt hugging the drum body.
- 8. Slowly close the Toggle Lever so that the out ring engages the cover / body juncture.
- 9. Downward pressure along with tapping the outside of the ring may assist in an even closure.
- 10. Once closed for shipment, engage latch to lock the lever into place.
- 11. Mark the drum to indicate "Radioactive Material, USA DOT 7A TYPE A."

	Container Preparation and Filling Instruction	s/Checklist
Type A 7A Di Issued: 03/01/2	rums – 30 Gallon Size, Lever Lock Closure 004 Revised:	ORNL-PKG-53, Rev. 0 Page 2 of 3
	A. UN 1A2 (30 Gallon Size, Lever Lock Stores Catalog No. 02-112-6530	Closure)
Operating Personnel	12. Attach a plain wire seal for nonaccountabl numbered seal for accountable materials, if re	-
	Seal wires should be threaded through the lu holes provided in the bolt and/or lugs as appr seal must be installed so that it has to be brok	opriate for each container. The
	13. Record the controlled, numbered seal inform applicable.	ation on the Seal Log Sheet, if
Prepared by:	ORNL TPM Organization	
Approved by:	J.H. Switter Jeff Shelton, Manager (576-6401) ORNL TPM - Packaging Operations	March 1, 2004

Container Preparation and Filling Instructions/Checklist

Type A 7A Drums – 30 Gallon Size, Lever Lock Closure Issued: 03/01/2004 Revised: ORNL-PKG-53, Rev. 0 Page 3 of 3

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E SUA	INDUSTRIES, INC.		Chicago, I	inoi:
		alification Test Rep	port	
		SF036		
Part# :	CQ30			
Date Tested:	May 1,	2003		
Drum Description:		and a subsection of the state o		
Drum Type:	Open Head	Rolling Hoops:	Two 30 Gallons	
Material:	CRCQ Carbon Steel	Capacity: Ring:	W.C. "C" Lever-Lock, UK	
Head Thickness: Body Thickness:	1.2mm (0.047")	Nut/Bolt Type:	N/A	
Bottom Thickness:	1.2mm (0.047")	Gasket:	EPDM In-Cover "D"	
Inside Diameter:	18.25	Chime Type:	Double Seam/Box	
Overall Height:	29.125	Fittings:	N/A	
Packaging Group:	7A, II	Nuclear Vent:	<u>N/A</u>	
Specific Gravity:	1.2 225 Kg	Seam Construction: Ring gap:	N/A	
Solids Gross Weight: Hydro Test Pressure:	235 Kg N/A	Bolt Torque:	N/A N/A	
nyato lest riessure.		-		
U.N. MARKING:	1A2/X235/S & 1A2/Y1.5/150			
Pre-Testing Conditio	ne : :		and the second	
	ed and deemed satisfacto	rv		
according to section		Yes		
	e the drums filled to?	98%	······································	
		Sodium Bic	arbonate & Steel Scrap	
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