

## **LOCKHEED MARTIN ENERGY SYSTEMS**

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**THE FOLLOWING DOCUMENT IS  
FOR INTERNAL USE ONLY**

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**LOCKHEED MARTIN TRANSPORTATION & PACKAGING MANAGEMENT  
CONTAINER PREPARATION & FILLING INSTRUCTIONS  
CHECKLIST**

**"UN" TRIPLE-WALL CORRUGATED FIBER BOX**  
**Revision 0**

**LMTPM-CHK-42**  
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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 "UN" marked triple-wall corrugated fiber boxes are authorized for use as single packagings only of solid hazardous materials.

**NOTE 2:** The maximum allowable gross weight is printed on the side of each corrugated box in kilograms [ex., 125kg (275 lbs)]. Allowable weight applies to Packaging Group II or III solid materials [PG I is not authorized.]

**NOTE 3:** If the triple-wall corrugated box is to be used as a DOE 7A Type A RAD packaging, YOU MUST refer to Y-12 Packaging System's packaging procedures for the Type A packaging requirements and documentation.

**NOTE 4:** Refer to Appendix A, *"UN" Triple-Wall Corrugated Fiber Boxes*, for sizes, markings, and catalog numbers of triple-wall corrugated fiber boxes.

**A. UN 4G/Y Triple-Wall Corrugated Fiber Box**  
**Stores Catalog No. 02-114-xxxx**

**Operating  
Personnel**

- \_\_\_\_\_ 1. Inspect the corrugated box to be filled to ensure it is in good physical condition and there are no critical damages, fiberboard tears/cuts, etc. that could develop into a leak or cause box failure during normal storage or in transportation.
  
- \_\_\_\_\_ 2. Ensure the material to be filled into the corrugated box is compatible with (will not wet, deteriorate, or generate fumes that will attack) the corrugated box's internal fiber surface.
  
- \_\_\_\_\_ 3. Assemble the corrugated box by folding all box flaps, top, and bottom along the score line and sealing the bottom flaps of the box securely with tape as specified below:
  - a. The boxes must be sealed with 3 inch wide, reinforced, water reactive-glue tape or tape of an equivalent or greater strength.
  - b. The outer bottom box flaps must tough when folded together (no gaps between flap edges).
  - c. The tape must overlap both ends of the box, at least 4 inches (minimum) up the side of the box. If the box is less than 4 inches outside height (OH), then tape the full height.

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**A. UN 4G/Y Triple-Wall Corrugated Fiber Box  
Stores Catalog No. 02-114-xxxx (cont.)**

**Operating  
Personnel**

- \_\_\_\_\_ 4. **IF** the material being filled into the corrugated box has a moisture content such that it could penetrate/wet through the fiber of the box or weaken the box closures, **THEN**  
Ensure that a polyethylene bag liner is inserted into the corrugated box prior to filling.
- \_\_\_\_\_ 5. **IF** the corrugated box is to be filled with solid hazardous materials/wastes, **THEN**  
Fill the box according to the requirements/limitations specified in NOTE 2.
- \_\_\_\_\_ 6. **IF** the box contains a plastic inside liner, **THEN**  
Ensure that the liner (bag) is securely closed (tied off with knot, band, string, etc.--no wire) and is still in good condition (no tears, punctures, etc.) **PRIOR** to closing the top box flaps of the double-wall corrugated box.
- \_\_\_\_\_ 7. Close and seal the top flaps of the double-wall corrugated fiber box in the same manner as the bottom flaps under Step A.3.
- \_\_\_\_\_ 8. Label and mark the corrugated box in accordance with current Lockheed Martin/Department of Transportation (DOT) requirements.
- \_\_\_\_\_ 9. **IF** the corrugated box is scheduled for off-site shipment, **THEN**  
Contact the Lockheed Martin Transportation & Packaging Management organization for appropriate DOT markings and labeling.
- \_\_\_\_\_ 10. Sign and date the checklist in the appropriate signature block verifying 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 corrugated fiber box for shipment.

**A. UN 4G/Y Triple-Wall Corrugated Fiber Box**  
**Stores Catalog No. 02-114-xxxx (cont.)**

**APPROVAL FOR SHIPMENT:**

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

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**Approved by:**

[Approval Signature on File]  
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Packaging Operations

**Date:** [10/1/97]

## APPENDIX A

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*"UN" Triple-Wall Corrugated Fiber Boxes*

SIZE	MARKINGS	CATALOG NO.
12 x 12 x 8	UN 4G/Y 45/S	02-114-5775
12 x 12 x 12	UN 4G/Y 68/S	02-114-5777
16 x 16 x 8	UN 4G/Y 80/S	02-114-5780
16 x 16 x 12	UN 4G/Y 125/S	02-114-5783
16 x 16 x 16	UN 4G/Y 150/S	02-114-5786
18 x 18 x 8	UN 4G/Y 100/S	02-114-5791
18 x 18 x 12	UN 4G/Y 125/S	02-114-5800
20 x 20 x 8	UN 4G/Y 100/S	02-114-5813
20 x 20 x 12	UN 4G/Y 150/S	02-114-5816
24 x 24 x 12	UN 4G/Y 150/S	02-114-5825
24 x 24 x 24	UN 4G/Y 150/S	02-114-5831
52 x 24 x 24	UN 4G/Y 200/S	02-114-5843

As of: 7/1/97 - wcn