

SUPPLIER/SELLER SHIPPING INSTRUCTIONS

- 5.0 MARKING
 - 5.1 Container Marking
 - 5.2 Material Safety Data Sheet (MSDS) Information
 - 5.3 Electrostatic Discharge (ESD) Sensitive Labels
 - 5.4 Marking for Buyer Procured Tooling
 - 5.5 Warning Labels
 - 5.6 Special Labels or Markings
 - 5.7 Bar Code Markings
 - 5.7.1 Bar Code Data Elements for Standard Purchase Orders
 - 5.7.2 Additional Bar Code Data Elements for F-16 Block 60 – Shipments Direct to UAE
 - 5.7.3 LM eCat Marking
 - 5.7.4 Bar Code Data Elements for Team Furnished Equipment Purchase Orders
 - 5.7.5 Bar code data elements for F35 LRIP and Beyond Purchase Orders
 - 5.8 Radio Frequency Identification Data (RFID) Requirements for F35 Low Rate Initial Production (LRIP) Items
 - 5.8.1 RFID Tags
 - 5.8.2 Construct Standards
 - 5.8.3 Advance Ship Notice (ASN) Requirements
- 6.0 SHIPMENT DOCUMENTATION
 - 6.1 Packing Sheets
- 7.0 CLASSIFIED AND COMSEC SHIPMENTS
 - 7.1 Classified Shipments
 - 7.2 COMSEC Shipments
- 8.0 TRANSPORTABILITY
 - 8.1 Transportability Criteria
 - 8.1.1 Physical Characteristics of End Items
- APPENDIX I Standard PO Label Example
- APPENDIX II Additional Label for F35 LRIP Shipments Destined for Location Other Than Buyer
- APPENDIX III Additional Label for F-16 Block 60 – Shipments Direct to UAE or CONUS Inventory Accumulation (Non-Production Support) Shipments Example
- APPENDIX IV LM eCat Label Example
- APPENDIX V Team Furnished Equipment Label Example
- APPENDIX VI Raw Stock Packaging
- APPENDIX VII Special Markings High Risk Shipments
- APPENDIX VIII Critical Supplier/Seller Parts Packaging
- APPENDIX IX F35 General Packaging Information (Repairable Items Only)

1.0 GENERAL

1.1

7. Outside/Undercarriage

- D. Seller shall store ocean containers in a secure area to prevent unauthorized access and/or manipulation.

2.0 APPLICABLE DOCUMENTS

The following documents in effect at the time of shipment shall form a part of this shipping instruction to the extent specified herein:

2.1 Specifications/Standards

- § A-A-55057 – Panels, Wood/Wood Based; Construction and Decorative
- § A-A-59736 – Boxes, Shipping, Reusable with Cushioning
- § ASTM D4727 – Standard Specification for Corrugated and Solid Fiberboard Sheet
- § Stock (Container Grade) and Cut Shapes
- § ASTM D5118 – Standard Practice for Fabrication of Fiberboard Shipping Boxes
- § ASTM D3951 – Standard Practice for Commercial Packaging
- § ISO/PSA 17712 – Freight Containers – Mechanical Seals
- § Tool Manufacturing Specification – Material Control – 002 (TMS-MC-002)
- § Tool Manufacturing Specification – Material Control – 015 (TMS-MC-015)
- § MIL-STD-129P, Change 3, dated 29 October 2004
- § MIL-STD-2073-ID
- § National Industrial Security Program Operating Manual (NISPOM), Sections 5-408 and 5-409
- § NSA Industrial COMSEC Manual (NSA Manual 90-1, Section 6 – latest version)
- § Incoterms – Uniform International Rules for Trade Terms

3.0 DEFINITIONS

Buyer's Packaging Engineering Address:

Lockheed Martin Aeronautics Company – Fort Worth
P.O. Box 748
Fort Worth, TX 76101
Attn: Packaging Engineering
Mail Zone: 6888

Lockheed Martin Aeronautics Company – Marietta

86 South Cobb Drive
Marietta, GA 30063
Attn: Packaging Engineering
Mail Zone: 0664

Lockheed Martin Aeronautics Company – Palmdale
15 Street E. & Avenue P
Palmdale, CA 93550
Attn: General Receiving

- 4.2.1 Packaging Standards – Seller shall prepare Item packaging in accordance with ASTM D3951-98 Standard Practice for Commercial Packaging (except as modified herein) for shipment and storage for a minimum of 90 days from the time of receipt at destination. Unless otherwise directed by the PO, Seller shall prepare Quantity per Unit Pack (QUP) in accordance with ASTM D3951-98. If the packages of this standard will not provide the protection required for the type of material being shipped, Seller shall use other materials, containers, or processes provided that they meet or exceed the applicable container requirements as specified in ASTM D3951-98.
- 4.2.2 Packaging of Line Items – Seller shall individually enclose each Line Item (Part Number) in a carton segregating it from other Line Items. Seller shall place appropriate bar code label on the outside of carton. Consolidation of these cartons for shipment purposes is acceptable. Further, Seller shall mark the consolidation box "Contains multiple bar coded Line Items inside box". Seller shall place paperwork (packing list) for each individual Line Item on the outside of the consolidation box.
- 4.2.3 Hardware Packaging – Seller shall package hardware type Items, including O-rings, gaskets and seals in bulk in their normal quantity of unit package (which for O-rings, for example, is 1 each). Seller shall then package units in intermediate packages of 25, 50 or 100 per box, depending upon the size of the parts. Seller shall mark each intermediate container depicting the quantity inside and the Buyer part number. Seller shall package rivets and other parts that have a unit of measure of pounds in one-pound packages. Any package quantities already established between Buyer and Seller shall continue unless a change in quantities is incorporated into the PO. Seller shall not exceed container weight limits. When shipping small, heavy, hardware type parts, Seller shall use appropriate packaging material and containers to protect the hardware and prevent distortion and splitting of carton sides. Whenever multiple pieces make up one part, e.g. a resistor, a washer and a nut, Seller shall package one each, p15vets pre carton sides(smt diackageEirb7 d5vetiplcEaggd in A)9(u)1(ltiple)TJ-

- 4.2.8 Buyer Procured Tooling Packaging – Seller shall comply with the shipping and packaging requirements specified in TMS-MC-002 and TMS-MC-015.
- 4.2.9 Composite Part Packaging – Seller shall protect composite edges from bending or delaminating. Seller shall individually enclose each Line Item (Part Number) in a carton segregating it from other Line Items. Seller shall place appropriate bar code label on the outside of carton. Consolidation of these cartons for shipment purposes is acceptable. Further, Seller shall mark the consolidation box “Contains multiple bar coded Line Items inside box”. Seller shall place paperwork (packing list) for each individual Line Item on the outside of the consolidation box.
- 4.2.10 Critical Supplier/Seller Parts Packaging – Seller shall protect parts with chevron, beveled, pointed and/or sharp edges. Appendix VIII shows examples of preferred packaging. Seller shall individually enclose each Line Item (Part) in a carton segregating it from other Line Items. Seller shall place appropriate bar code label on the outside of each carton. Consolidation of these cartons for shipment purposes is acceptable. Further, the Seller shall mark the consolidation box “Contains multiple bar coded Line Items inside box”. Place paperwork (packing list) for each individual Line Item on the outside of the consolidation box.
- 4.2.11 F35 Low Rate Initial Production (LRIP) Packaging – Seller shall package F35 assets in accordance with Commercial Standard ASTM D3951 or a recognized equivalent commercial packaging standard such as BS1133 (British Standard-Commercial). If Seller determines a Commercial Packaging Standard cannot meet the known distribution and environment requirements associated with the delivery, storage and end-use, Seller shall pack in accordance with MIL-STD-2073-1D or Def Stan 81-41. Repairable Items will require a general packaging information form completed, by Seller, in accordance with Appendix IX and forwarded to Buyer’s appropriate Packaging Engineering Address.
- 4.2.12 F22 Non-Production Packaging – Seller shall package F22 consumable and hardware Items in accordance with Commercial standards. Seller shall package Repairable / Spares in accordance with MIL-STD-2073-1D.
- 4.3 Shipping Containers – Seller shall provide containers constructed to provide for handling and shall afford the Item protection. Seller shall utilize shipping containers uniform in size whenever possible. Seller shall utilize containers of minimum tare weight and size consistent with the protection required. Seller shall utilize containers that meet the minimum packaging requirements of the common carriers (if so shipped) for acceptance for safe transportation at the lowest rate applicable. Disassembly of Items to conserve size is desirable when reassembly can be done by unskilled labor using common hand tools and at no risk to the finish or function of the part. Seller shall make maximum use of corrugated fiberboard containers which meet or exceed those specifications of ASTM D 5118, and which shall be closed by taping or banding so they may be opened without damaging the packaged Item. If Seller determines the capacity of fiberboard containers is exceeded, Seller shall use wood packaging material “WPM”, crates/pallets/skids/etc.

integrity of the tools and container by stenciling the following three (3) statements on all four (4) sides and top of the shipping container with the same size lettering:

1. "NOT FOR OUTSIDE STORAGE"
2. "CONTAINER MUST BE COVERED AT ALL TIMES DURING SHIPPING"
3. "CONTAINER IS NOT WATER TIGHT"

Note: Tooling shipping and storage containers are neither designed to be, nor intended to be water tight.

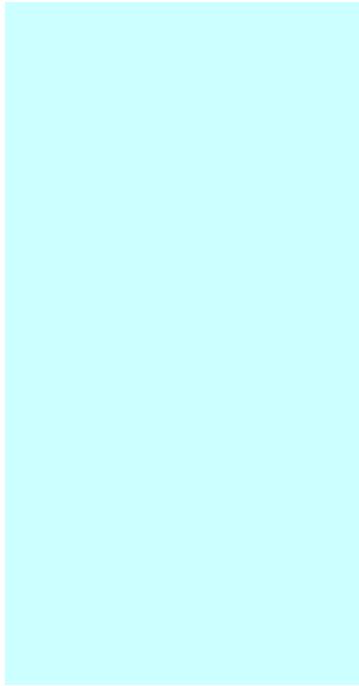
- 5.5 Warning Labels – Seller shall label shipping and storage containers for cadmium, cadmium compounds, cadmium containing materials or articles (such as cadmium plated mechanical fasteners) that are capable of releasing cadmium during Buyer's manufacturing processes as required by the Occupational Safety & Health Administration regulations found in 29CFR1910.1027. As a minimum, these warning labels shall include the following information: Danger, Contains Cadmium, Cancer Hazard, Avoid Creating Dust, Can Cause Lung and Kidney Disease.

8.1.1 Physical Characteristics of End Items

- A. Dimensions exceed 8 feet in height, 8 feet in width, 32 feet in length, and/or gross weight is in excess of 11,200 pounds (domestic)
- B. Dimensions exceed 7 feet in height, 6.5 feet in width, 18.5 feet in length, gross weight is in excess of 10,000 pounds (international)
- C. Item requires temperature, pressure, shock, or vibration isolation in containers and fixtures
- D. Unusual and/or abnormal Item configuration

Appendix I

Standard PO Label Example



Appendix II

Additional Label for F35 LRIP Shipments Destined for Locations other than Buyer

NATO/National Stock Number

1234567890

12340101010109

Description/Nomenclature

Prime CAGE Code

0001

81755

F35 Part Number (Current)

1234567890

123456789012345

Contract Number

Method of Preservation

Date of Preservation/Packaging

Weight

Quantity/Unit of Issue

Shelf Life

Serial Number (if applicable)

100

0102030405

PO Number

PO Line Item Number

Mfr CAGE Code

MSDS Number

Lot/Batch Number (if applicable)

Appendix IV

LM eCAT Label Example

Direct Delivery

LM eCAT Order Number

EC123456789

Packing Sheet Number

1234567890

1234567890

Deliver To Address

00050186

00050186J

User: Joe

Telephone 817-555-1234

Building 5

Floor 1

Column 86

n

Appendix V

Team Furnished Equipment Label Example

Team Furnished Equipment

Receiving PO
1234567890
1234567890

Receiving PO Line Number
0001
0001

Packing Sheet Number
1234567890
1234567890

Line Item Quantity in Shipment
100
12

Total PC
5
5

MSDS Number
442678
442678

LM Part Number
567890123
567890123

Procuring PO & Line Number
1234560789012
1234560789012

Appendix VI

Raw Stock Packaging

Appendix VI (Continued)

Seller's External Packaging Requirements:

- Steel banding to be placed against the runners between top slats
- Steel banding shall be a minimum of 3/4" wide
- Steel banding shall be tensioned adequately to prevent damage and/or shifting of contents
- Solid wood products shall be Heat Treated (HT) or Kiln Dried (KD)
- All packing lists, text reports, etc. must be securely attached to the skid/material.
- Cut shapes to be stacked so the heat lot and purchase order number are visible from the outside without cutting the retaining bands
- Legible skid identification on each end to include, at a minimum, the following:

LOCKHEED MARTIN P.O. _____
LOCKHEED MARTIN P.O. LINE ITEM _____
LOCKHEED MARTIN P/N _____
QTY _____ UOM _____
PACKING SLIP NUMBER NO. _____

Appendix VIII

Critical Supplier/Seller Parts Packaging

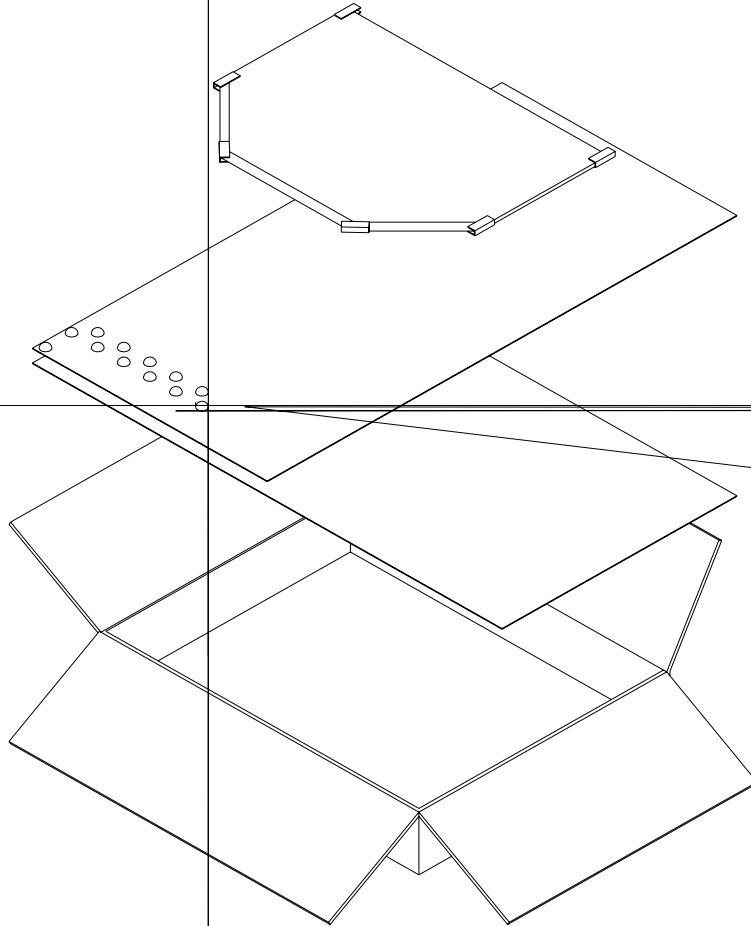
Packaging Requirements:

1. All parts will have Red Tubing (Grainger P/N 8PR03) or Blue foam (Grainger P/N SF49423) covering bevel, sharp, or chevron edges. Material used will extend a 1/2" minimum past the part. Not required for Example Two shipments.
2. Parts will then be wrapped with a 6 mil polyethylene sheeting material.
3. All parts will be surrounded by a minimum of two inches of approved cushioning material. See Table below and proceeding pages for examples of acceptable packaging solutions.
4. Packaging should prevent the part from moving or shifting vertically or laterally within the container.
5. Container construction / selection will be in accordance with section 4.3.
6. Seller shall individually enclose each Line Item (Part) in a carton segregating it from other Line Items. Consolidation of these cartons for shipment purposes is acceptable.

<u>Example</u>	<u>Description</u>	<u>Specification</u>
One	Bubble Wrap	PPP-C-795C , Class 1 or equivalent
Two	Polyethylene Foam	A-A-59136, Class 1, Grade A, Type 1
Three	Semi-Flexible Foam-In- Place	Semi-Flexible, 1.0 lb density, i.e., Sealed Air Instapak

See following pages (27, 28, and 29) for examples of acceptable packaging solutions.

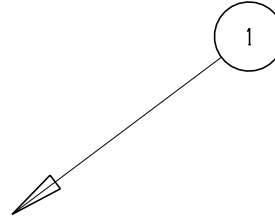
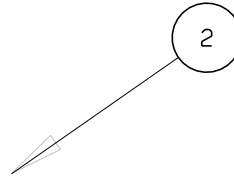
Appendix VIII (Continued)



Appendix VIII (Continued)

EXAMPLE # 3

3



4. Close container and seal with tape.

APPENDIX IX

F35

GENERAL PACKAGING INFORMATION (REPAIRABLE ITEMS ONLY)

PART NUMBER _____

NATIONAL STOCK NUMBER (NSN) _____

NOMENCLATURE (DESCRIPTION) _____

CAGE (SUPPLIER/SELLER) _____

ITEM DIMENSIONS (INCHES)

LENGTH _____ WIDTH _____ HEIGHT _____