LMSSC PACKAGING STANDARD

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STANDARD PACKAGING MATERIAL LIST FOR LMSSC SHIPPING FACILITIES

1.0 SCOPE

1.1 This packaging standard identifies the commercial materials that may be called out on packaging designs and instructions at LMSSC Shipping Facilities. This standard is for LMSSC internal use only.

2.0 REFERENCES

- 2.1 LMSSC Manufacturing Process Instruction MPI-931051-010, Packaging, Handling, Storage and Transportation (PHST)
- 2.2 LMSSC Manufacturing Process Instruction MPI-931051-020, Packaging and Handling of Contamination-Controlled Hardware
- 2.3 LMSSC Manufacturing Process Instruction MPI-441008, Protection of Electrostatic Sensitive Discharge Sensitive (ESDS) Devices
- 2.4 LMSSC Command Media, N2.3-T1-ProdProt-1.0-S1, Packaging, Handling, Storage and Transportation (PHST) Standard
- 2.5 LMSSC Command Media, N2.3-T1-ProdProt-1.0-G1, Packaging, Handling, Storage and Transportation (PHST) Guidebook

3.0 GENERAL REQUIREMENTS

- 3.1 Packaging material restrictions are identified in command media N2.3-T1-ProdProt-1.0-S1 and –G1, as well as Manufacturing Process Instruction MPI-931051-010.
- 3.2 Contracts should be reviewed for Military and NASA packaging restrictions. Contact Product Protection if you are unable to access the Electronic Contracting Environment Database. Material manufacturers may be required to provide a Certificate of Conformance (CoC) if Military or NASA packaging standards are invoked by contract. Military and NASA packaging is typically invoked by MIL-STD-2073 and NPR6000.1. The FBM Program invokes a hybrid of military packaging through OS8244. In these cases, commercial materials will have to be separated from materials bought to a CoC.
- 3.3 Packaging materials for the primary preservation of ESD and contamination sensitive items (visibly clean and precision clean) are not listed in this standard. These preservation methods are usually performed prior to the items arrival in a Shipping Facility and require materials that were bought to the restrictions imposed by the PMP Database Code (this includes specific suppliers). Refer to MPI-441008 and MPI-931051-020.
- 3.4 Materials used to package hazardous materials are not listed in this standard.

4.0 DETAILED PACKAGING INSTRUCTIONS

- 4.1 Packaging materials approved by this standard are listed in Table I.
- 4.2 Shipping Facilities may carry an inventory of additional materials based on the programs they support and the types of products they package.

TABLE I – STANDARD PACKAGING MATERIALS FOR SHIPPING FACILITIES

Г	TABLE I – STANDARD PACKAGING MATERIALS FOR SHIPPING FACILITIES			
Env.	Description	Reference	PMP Database	
Friendly		Specification	Code	
	WRAPPING MATERIALS			
	Plastic Sheet, Polyolefin	A-A-3174, Type I,	LM-YC10700 Series	
		Class 1, Grade A		
X	Wrapping Paper, Chemically Neutral (Non-Corrosive), Flat	MIL-DTL-17667,	LM-YC10571A or B	
	(Kraft)	Type I		
	Plastic Film, Cushioning, Flexible, Cellular (Regular Non-	PPP-C-795, Class 1,		
	Anti-Static Bubble Wrap)	Thin to Thick (1/4" to		
		1/2" Thick)		
	Sheet, Closed Cell Polypropylene Foam	A-A-59135, Class 1 or		
		2, Grade A (White),		
		1/8" to ¼" Thick)		
X	Kraft Paper, 3-Ply Flexible (requires leasing a Ran Pak, Paper	A-A-59311		
	Plus or similar converter).			
	Note: this is a good substitute for loose fill peanuts.			
	WATERVAPOR BARRIER MATERIALS) (III) DDF 101 (II	X 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
	Barrier Materials, Watervaporproof, Greaseproof, Flexible,	MIL-PRF-131, Class	LM-YC10685A	
	Heat-Sealable State of the Stat	1	X 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
	Barrier Material, Transparent, Flexible, Heat-Sealable	MIL-PRF-22191,	LM-YC10693A	
	D. J. M. C. I. Fl. 111 Fl. C. C. I. F. C. I. I. C. C. I.	Type I, Class 1	1.14 MD 10707 A	
	Barrier Materials, Flexible, Electrostatic Protective, Heat-	MIL-PRF-81705,	LM-YB10707A	
	Sealable Sea	Type I, Class 1		
	DESICCANT AND HUMIDITY INDICATORS	M. D. 2464	1.14.14G10740.4	
	Desiccants, Activated, Non-Dusting, Bagged, Packaging Use	MIL-D-3464,	LM-YC10748A	
	and Static Dehumidification	Type II	14020002 2	
	Indicator, Humidity, Card, Three Spot, Impregnated Areas	MS20003	MS20003-2	
	(Cobaltous Chloride)			
17	CUSHIONING MATERIALS Cushioning Metainly Callulatin Backgring	A A 1000 C 1. T		
X	Cushioning Material, Cellulosic Packaging	A-A-1898, Grade I,		
	Note: this is a good substitute for loose fill peanuts.	Optional Class, Size		
	Cushioning Material, Packaging, Closed Cell Foam Plank,	and Style		
	Polyethylene, Density: 2.0 pcf, 1" and 2" thick sheets.	A-A-59136, Class 1,		
	Also known as Ethafoam or T-Lam.	Grade A (White),		
	Polyurethane Foam, Rigid or Flexible, for Packaging,	Type I MIL-PRF-26514,		
	Polyurethane Ether or Ester, Density: 2.0pcf, 1" and 2" thick	Type I, Class 2, Grade		
	sheets	B or C		
X	Earth Cell 1450, Manufactured from Bio-based Polyols (i.e.	Commercial Source:		
Λ	Soy), 1" and 2" thick sheets	American Excelsion		
	Soy), 1 and 2 tinck sheets	Company		
	CORRUGATED FIBERBOARD CONTAINERS	Сопрану		
X	Domestic Corrugated Fiberboard Boxes, Single Wall	ASTM D5118, Type:		
Λ	Domestic Corrugated Floerboard Doxes, Single wall	ASTM D3118, Type:		

F-	<u> </u>		
		CF, Class: Domestic,	
		Variety: Single Wall,	
		Style: RSC, Grade: 44	
		ECT or 250 Burst,	
		Size: Optional, Color:	
		Optional	
X	Domestic Corrugated Fiberboard Boxes, Double Wall	ASTM D5118, Type:	
		CF, Class: Domestic,	
		Variety: Double Wall,	
		Style: RSC, Grade: 61	
		ECT or 350 Burst,	
		· · · · · · · · · · · · · · · · · · ·	
		Size: Optional, Color:	
		Optional	
X	Weather Resistant Corrugated Fiberboard Boxes, Single Wall	ASTM D5118, Type:	
		CF, Class: Weather	
		Resitant, Variety:	
		Single Wall, Style:	
		RSC, Grade: V or W	
		· ·	
		grades per ASTM	
		D5118 Table 3, Size:	
		Optional, Color:	
		Optional	
X	Weather Resistant Corrugated Fiberboard Boxes, Double Wall	ASTM D5118, Type:	
		CF, Class: Domestic,	
		Variety: Double Wall,	
		Style: RSC, Grade: V	
		or W grades per	
		ASTM D5118 Table	
		3, Size: Optional,	
		Color: Optional	
	TAPING MATERIALS		
	Pressure-Sensitive Tape for Packaging, Box Closure and	ASTM D5486, Type I,	
	Sealing, Waterproof, Weather-Resistant, Polyester Backed,	Class 2, Source: 3M	
	2" and 3" widths	#351, #355 or similar	
	Pressure-Sensitive Tape for Packaging, Box Closure and	ASTM D5486, Type	
	Sealing, Water-Resistant, Polyester Backed, 2" and 3" widths	II, Class 2, Source:	
		3M #355 or similar	
	Pressure-Sensitive Tape for Packaging, Box Closure and	ASTM D5486, Type	
	Sealing, Water-Resistant, Polypropylene, 2" and 3" widths	III, Source: 3M #375	
		or similar	
	Pressure-Sensitive Tape for Packaging, Box Closure and	ASTM D5486, Type	
	Sealing, Water-Resistant Woven Cloth Backed, 2" and 3"	IV, Source: Polyken	
	widths, Color: Olive Drab	#231 or similar	
	Reinforced Gummed Tape for Sealing and Securing, 3" width	ASTM D5749, Type I,	
		Class 2, Source:	
		Shurtape WP400 or	
		similar	
	STRAPPING MATERIALS		
	Strapping, Flat Steel, Heavy Duty, 3/4" wide x 0.031" thick	ASTM D3953, Type	
	Strapping, Flat Steel, Heavy Duty, 74 wide x 0.031 tillex	1, Heavy Duty, Finish	
		A A GENT P 20 72 G	
	Strapping Seals, Snap on or Open, for ¾" wide x 0.031" thick	ASTM D3953, Class	
	Heavy Duty Strapping	H, Finish B, Grade 3,	<u>-</u> -
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	Style 1	
 Strapping, Flat Steel, Heavy Duty, 1 1/4" wide x 0.031" thick	ASTM D3953, Type	
	1, Heavy Duty, Finish	
	A	
 Strapping Seals, Snap on or Open, for 1 1/4" wide x 0.031"	ASTM D3953, Class	
thick Heavy Duty Strapping	H, Finish B, Grade 3,	
	Style 1	
 Strapping, Polypropylene, ½" wide x 0.030"	ASTM D3950, Type	
	II, 810 lb Breaking	
	Strength	
 Seals for Polypropylene Strapping, Open Style, for ½" wide x	ASTM D3950,	
0.030"	Galvanized Steel	

6.0 QUALITY ASSURANCE

6.1 This section is not applicable.

REVISION HISTORY

Release Date	Rev	Change Description	Responsible Engineer
04-07-2014	0.0	Original Release	Bill Manning

APPROVALS

Approvers	Disciplines	Date: MM-DD-YYYY
Tom Shanley	PHST (Denver - Lead)	04-07-2014
Rick Dumlao	PHST (SV-Lead)	04-07-2014
John Machann	Shipping Manager (Denver)	04-07-2014
Scott Givens	Shipping (SV-Lead)	04-07-2014
Pat O'Donnell	Transportation Manager (SV)	04-07-2014
Marcus Ruddy	Process Engineering Manager	04-07-2014