



LAT MECHANICAL MATERIALS & PARTS LIST ACD

Inorganic															Materials		Evaluation		
ID Number	Drawing/Document Number	Subsystem	Responsible Party	Type	Material identification	Function/Application	Quantity	Fab Method	Title of Drawing	Type of Part	Fastener	Procurement Spec #	Details	Press.	Comments/Details	SLAC IPO	Comments	GSFC	Comments
IN-1	GSFC 2054501	ACD, BEA	Glenn Unger	Metallic	Aluminum 6061 T6	Channel	4		TBA		No						Need More Information (Type of Alum., Function, Fastener...)		
IN-2	GSFC 2054502	ACD, BEA	Glenn Unger	Metallic	Aluminum 6061 T6	Fitting, Corner	4		TBA		No						Need More Information (Type of Alum., Function, Fastener...)		
IN-3	GSFC 2054503	ACD, BEA	Glenn Unger	Metallic	Aluminum 6061 T6	Backplane, Event Board	8		TBA		No						Need More Information (Type of Alum., Function, Fastener...)		
IN-4	GSFC 2054504	ACD, BEA	Glenn Unger	Metallic	Aluminum 6061 T6	Cover, Closeout	8		TBA		No						Need More Information (Type of Alum., Function, Fastener...)		
IN-5	GSFC 2054505	ACD, BEA	Glenn Unger	Metallic	Aluminum 6061 T6	Boss, Threaded	8		TBA		Yes	TBD		No			Need More Information (Type of Alum., Function, Fastener...)		
IN-6	GSFC 2054506	ACD, BEA	Glenn Unger	Metallic	Aluminum 6061 T6	Nut, Jam	8		TBA		Yes	TBD		No			Need More Information (Type of Alum., Function, Fastener...)		
IN-7	GSFC 2054507	ACD, BEA	Glenn Unger	Metallic	Aluminum 6061 T6	Cover, High Voltage	12		TBA								Need More Information (Type of Alum., Function, Fastener...)		
IN-8	GSFC 2054626	ACD, BEA	Glenn Unger	Metallic	Aluminum 6061 T6	Holder, PMT	194		TBA								Need More Information (Type of Alum., Function, Fastener...)		
IN-9	GSFC 2054627	ACD, BEA	Glenn Unger	Metallic	Aluminum 6061 T6	Light Baffle, PMT	194		TBA								Need More Information (Type of Alum., Function, Fastener...)		
IN-10		ACD, BEA	Glenn Unger	Metallic	NAS1352-08 A-286 CRES	Screw, 8-32, Corner	80		TBA		Yes	TBD	Screw 8-32 UNC (TBD)	No		Provisionally Accepted	Need More Information.		
IN-11		ACD, BEA	Glenn Unger	Metallic	NAS1352-06 A-286 CRES	Screw, 6-32, Corner	264		TBA		Yes	TBD	Screw 6-32 UNC (TBD)	No		Provisionally Accepted	Need More Information.		
IN-12		ACD, BEA	Glenn Unger	Metallic	NAS1352-04 A-286 CRES	Screw, 4-40, Event Board	120		TBA		Yes	TBD	Screw 4-40 UNC (TBD)	No		Provisionally Accepted	Need More Information.		
IN-13		ACD, BEA	Glenn Unger	Metallic	NAS1352-02 A-286 CRES	Screw, 2-56, HV Cover	48		TBA		Yes	TBD	Screw 2-56 UNC (TBD)	No		Provisionally Accepted	Need More Information.		
IN-14		ACD, BEA	Glenn Unger	Metallic	NAS1351-4 A-286 CRES	Screw, 1/4-28, Corner LAT/ACD	12		TBA		Yes	TBD	Screw 1/4-28 UNF (TBD)	No		Provisionally Accepted	Need More Information.		
IN-15		ACD, BEA	Glenn Unger	Metallic	NAS1351-4 A-286 CRES	Screw, 1/4-28, Side LAT/ACD	8		TBA		Yes	TBD	Screw 1/4-28 UNF (TBD)	No		Provisionally Accepted	Need More Information.		
IN-16		ACD, BEA	Glenn Unger	Metallic	NAS1351-3 A-286 CRES	Screw, 10-32, TSA Flexure	28		TBA		Yes	TBD	Screw 10-32 UNF (TDB)	No		Provisionally Accepted	Need More Information.		
IN-17		ACD, BEA	Glenn Unger	Metallic	NAS1352-04 A-286 CRES	Screw, 4-40, Bulkhead Connector	96		TBA		Yes	TBD	Screw 4-40 UNC (TBD)	No		Provisionally Accepted	Need More Information.		
IN-18		ACD, BEA	Glenn Unger	Metallic	NAS1352-02 A-286 CRES	Screw, 2-56, PMT Holder	776		TBA		Yes	TBD	Screw 2-56 UNC (TBD)	No		Provisionally Accepted	Need More Information.		
IN-19		ACD, BEA	Glenn Unger	Metallic	NAS1352-02 A-286 CRES	Screw, 2-56, PMT Dynode	388		TBA		Yes	TBD	Screw 2-56 UNC (TBD)	No		Provisionally Accepted	Need More Information.		
IN-20		ACD, BEA	Glenn Unger	Metallic	NAS 1102E02-3, CBS	PMT Housing Screws 3/16 flathead, Pilgrim					yes		Store Stock S/N: 5310-00-E97-0996						



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LAT MECHANICAL MATERIALS & PARTS LIST ACD																				
Polymer & Composites																	Materials		Evaluation	
	ing/Document	Subsystem	Responsible Party	Type	Material identification	Function/Application	Quantity	Mix Formula	Cure	Limited Life	TML	CVCM	Area	Volume	Weight	Comments/Details	SLAC IPO	Comments	GSFC	Comments
	Number																			
PC-1	TBD	ACD, BEA	Glenn Unger	Polymer	Uralane 5753	Staking Compound (ACD Base Electronic Assembly)	As Require (A/R)	A/B (LV) as 1/5	7 Days @ RT	yes	0.62	0.01				A/B (moisture sensitive) before mix shelf live at 25C of 6 months	Provisionally Accepted	Need More Information (Limited Life, Area...)		
PC-2		ACD, BEA	Glenn Unger	Polymer	Parylene C	Conformal coating, RN	A/R				0.15	0.03								
PC-3		ACD, BEA	Glenn Unger	Polymer	5753-40B Black	PMT Mu Metal/Housing	A/R	A/B, as 1/5	3D @ 25°C air		0.66	0.01								
PC-4		ACD, BEA	Glenn Unger	Polycarbonate	Lexan	Grommet	196				0.11	0.00								
PC-5		ACD, BEA	Glenn Unger	Silicone	Nusil CV 2500	PMT Optical Gasket	A/R	A/B As 1/1	7 day @ RT		0.50	0.01								
PC-6		ACD, BEA	Glenn Unger	Polymer	Eccobond 56C	PMT Conductive Epoxy	A/R		60M @ 65°C and 1hr @ 102°C		0.24	0.03								
PC-7		ACD, BEA	Glenn Unger	Polycarbonate	Unicorp, 0.312L, ID ,OD?	Spacers			N/A		0.10	0.00								
PC-8		ACD, BEA	Glenn Unger	Polycarbonate	Craftech, 0.25" Male to Female	Screws					0.10	0.00								
PC-9		ACD, BEA	Glenn Unger	Polycarbonate	Craftech, 0.25" Female to Male	Screws					0.10	0.00								
PC-10	GSFC 2054581	ACD, Micro/MLI	Tom Johnson	Composite	Polyimide Foam AC-530	Solimide Foam (Micrometeoroid Shield)	A/R				1.50	0.01	36 m2		1.95 kg	WVR 1.04%		Need More Information (Limited Life, Area, TML, CVCM...)		
PC-11	GSFC 2054581	ACD, Micro/MLI	Tom Johnson	Composite	Kevlar CS-705	Kevlar KM2 Fabric (Micrometeoroid Shield)	A/R				?		36 m2		8.3 kg	Need to be test for outgassing		Need More Information (Limited Life, Area, TML, CVCM...)		
PC-12	GSFC 2054582	ACD, Micro/MLI	Tom Johnson	Composite	Vapor Deposited Germanium Black Kapton	Germanium Kapton (Thermal Blanket)	A/R						9 m2					Need More Information (Limited Life, Area...)		
PC-13	GSFC 2054582	ACD, Micro/MLI	Tom Johnson	Polyimide Film	VDA-1Kapton	Aluminized Kapton (Thermal Blanket)	A/R				0.73	0.01	9x# of Layers					Need More Information (Limited Life, Area, TML, CVCM...)		
PC-14	GSFC 2054582	ACD, Micro/MLI	Tom Johnson	Polymer	Dacron Netting	Dacron Netting (Thermal Blanket)	A/R				0.19	0.06	9x# of Layers					Need More Information (Limited Life, Area, TML, CVCM...)		
PC-15	GSFC 2054582	ACD, Micro/MLI	Tom Johnson	Other Adhesive	Kapton Acrylic ADH	Tape K102 (Thermal Blanket)	A/R				0.60	0.02					Provisionally Accepted	Need More Information (Limited Life, Area...)		
PC-16	GSFC 2054582	ACD, Micro/MLI	Tom Johnson	Polyamide/Acrylic Adh	Aluminum Foil Tape ADH only, 427	Transfer Adhesive (Thermal Blanket)	A/R				0.64	0.04					Provisionally Accepted	Need More Information (Limited Life, Area...)		
PC-17	GSFC 2054583	ACD, Micro/MLI	Tom Johnson	Acetal	DuPont Delrin	Holdown (Thermal Blanket)	A/R				0.43	0.02					Provisionally Accepted	Need More Information (Limited Life, Area...)		
PC-18	GSFC 2054582	ACD, Micro/MLI	Tom Johnson	Metallic/Polyester Film	VDA-2 Mylar	Aluminized Mylar (Thermal Blanket)	A/R				0.13	0.01	9x# of Layers				Provisionally Accepted	Need More Information (Limited Life, Area...)		
PC-19	GSFC 2054531	ACD, Shell	Ken Segal	Graphite/Epoxy	M46J/EX 1522	Face sheets (ACD Shell Assembly)	A/R		300°F		0.09	0.01			4.25 kg		Provisionally Accepted	Need More Information (Limited Life, Area...)		

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Polymer & Composites																	Materials	Evaluation		
	ing/Document	Responsible	Type	Material identification	Function/Application	Quantity	Mix Formula	Cure	Limited Life	TML	CVCM	Area	Volume	Weight	Comments/Details	SLAC IPO	Comments	GSFC	Comments	
	Number	Subsystem														Party	SLAC IPO	Comments	GSFC	Comments
PC-20	GSFC 2054531	ACD, Shell	Ken Segal	Epoxy	FM-73U	Film Adhesive (ACD Shell Assembly)	A/R		1H, 121°C air		0.70	0.05			0.76 kg		Provisionally Accepted	Need More Information (Limited Life, Area...)		
PC-21	GSFC 2054531	ACD, Shell	Ken Segal	Epoxy	EY3010	Edge Filler (ACD Shell Assembly)	A/R		7D, 25°C air		0.82	0.01					Provisionally Accepted	Need More Information (Limited Life, Area...)		
PC-22	GSFC 2054532	ACD, Shell	Ken Segal	Graphite/Epoxy	M46J/EX1522	Face sheets (ACD Shell Assembly)	A/R		300°F			0.01			3.9 kg		Provisionally Accepted	Need More Information (Limited Life, Area...)		
PC-23	GSFC 2054532	ACD, Shell	Ken Segal	Epoxy	FM-73U	Film Adhesive (ACD Shell Assembly)	A/R		1H, 121°C air		0.70	0.05			0.6 kg		Provisionally Accepted	Need More Information (Limited Life, Area...)		
PC-24	GSFC 2054532	ACD, Shell	Ken Segal	Epoxy	EY3010	Edge Filler (ACD Shell Assembly)	A/R		7D, 25°C air		0.82	0.05					Provisionally Accepted	Need More Information (Limited Life, Area...)		
PC-25	GSFC 2054533	ACD, Shell	Ken Segal	Graphite/Epoxy	M46J/EX1522	Corner Support, Top Out (ACD Shell Assembly)	4		300°F		0.09	0.01			5.0 kg	Needs to be tested for outgassing	Provisionally Accepted	Need More Information (Limited Life, Area...)		
PC-26	GSFC 2054534	ACD, Shell	Ken Segal	Graphite/Epoxy	M46J/EX1522	Corner Support, Top In (ACD Shell Assembly)	4		300°F		0.09	0.01			5.0 kg		Provisionally Accepted	Need More Information (Limited Life, Area...)		
PC-27	GSFC 2054535	ACD, Shell	Ken Segal	Graphite/Epoxy	M46J/EX1522	Corner Support, Side Out (ACD Shell Assembly)	4		300°F		0.09	0.01			5.0 kg		Provisionally Accepted	Need More Information (Limited Life, Area...)		
PC-28	GSFC 2054536	ACD, Shell	Ken Segal	Graphite/Epoxy	M46J/EX1522	Corner Support, Side In (ACD Shell Assembly)	4		300°F		0.09	0.01			5.0 kg		Provisionally Accepted	Need More Information (Limited Life, Area...)		
PC-29	GSFC 2054537	ACD, Shell	Ken Segal	Graphite/Epoxy	M46JEX1522	Doubler, Lower Outside (ACD Shell Assembly)	4		300°F		0.09	0.01			5.0 kg		Provisionally Accepted	Need More Information (Limited Life, Area...)		
PC-30	GSFC 2054538	ACD, Shell	Ken Segal	Graphite/Epoxy	M46J/EX1522	Doubler, Lower Inside (ACD Shell Assembly)	4		300°F		0.09	0.01			5.0 kg		Provisionally Accepted	Need More Information (Limited Life, Area...)		
PC-31	TBD	ACD, Shell	Ken Segal	Epoxy	EA9309.3NA	Paste Adhesive (ACD Shell Assembly)	A/R		7 Days @ 20 C		1.41	0.01			5.0 kg			Does Not Pass Outgassing ASTM-E-595, Will Need a MUA	Ok	MUA is not used for outgassing. Allow to used if passes CVCM
PC-32		ACD, Shell	Ken Segal	Composite	Tefzel	Fiber Cable Tie down (ACD Shell Assembly)	A/R				0.08	0.02					Provisionally Accepted	Need More Information (Limited Life, Area...)		
PC-33	GSFC 2054521	ACD, Shell	Ken Segal	Composite	T300/EX-1522	Flexure, TDA (ACD Shell Assembly)	340				0.09	0.01						Need More Information (Limited Life, Area, TML, CVCM...)		
PC-34	GSFC 2054560	ACD, TDA	Tom Johnson	Polymer	BC-408 PVT	Tile, Scintillating (ACD Tile Detector Assembly)	89				0.74	0.01			93.00	Low temperature annealing after bending and/or machining processes	Provisionally Accepted	Need More Information (Limited Life, Area, Weight needs Unit Values...)		
PC-35		ACD, TDA	Tom Johnson	Polymer	BCF-91AMC Plastic	Waveshifting Fiber (ACD Tile Detector Assembly)	A/R				0.17	0.00			0.90		Provisionally Accepted	Need More Information (Limited Life, Area, Weight needs Unit Values...)		
PC-36	GSFC 2054556	ACD, TDA	Tom Johnson	Polymer	Ultem-1000	Connector, WSF (ACD Tile Detector Assembly)	65				0.40	0.00			0.96		Provisionally Accepted	Need More Information (Limited Life, Area, Weight needs Unit Values...)		
PC-37	TBD	ACD, TDA	Tom Johnson	Epoxy	BC-600	Clear optical Cement (ACD Tile Detector Assembly)	A/R	100 to 28	7 days @ 25 C Air	Yes	1.40	0.04				BC-600 has a shelf life of 6 months and it shall be stored < 25 C		Does Not Pass Outgassing ASTM-E-595, Will Need a MUA		

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Polymer & Composites		Materials	Evaluation

GLAST																
Ordering Document Number	Subsystem	Responsible Party	Type	Material Identification	Function/Application	Quantity	Mix Formula	Cure	Limited Life	TML	CVCM	Area	Volume	Weight	Comments/Details	

SLAC IPO	Comments	GSFC	Comments
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GSFC	Comments
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LAT MECHANICAL MATERIALS & PARTS LIST ACD

Lubricants

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LAT MECHANICAL MATERIALS & PARTS LIST ACD

Process

Materials

Evaluation

Process													
ID Number	Drawing/Document Number	Subsystem	Responsible Party	Type	Process Identification	Function/Application	Process Specification Number	Process Description	Material Identification	SLAC IPO	Comments	GSFC	Comments
IN-1	GSFC 2054501	ACD, BEA	Tom Johnson	Metallic	Surface treatment in accordance with Mil-C-5541, Class 1A and Mil-A-8625 Type II, Class 2	Channel	Mil-C-5541Class 1A/Mil-A-8625 Type II, Class	Chromate conversion coating (Iridite) and black anodize	Aluminum 6061 T6				
IN-2	GSFC 2054502	ACD, BEA	Tom Johnson	Metallic	Surface treatment in accordance with Mil-C-5541, Class 1A	Fitting, Corner	Mil-C-5541, Class 1A	Chromate conversion coating (Iridite)	Aluminum 6061 T6				
IN-3	GSFC 2054503	ACD, BEA	Tom Johnson	Metallic	Surface treatment in accordance with Mil-C-5541, Class 1A and Mil-A-8625 Type II, Class 2 Black	Backplane, Event Board	Mil-C-5541Class 1A/Mil-A-8625 Type II, Class	Chromate conversion coating (Iridite) and black anodize	Aluminum 6061 T6				
IN-4	GSFC 2054504	ACD, BEA	Tom Johnson	Metallic	Surface treatment in accordance with Mil-C-5541, Class 1A and Mil-A-8625 Type II, Class 2	Cover, Closeout	Mil-C-5541Class 1A/Mil-A-8625 Type II, Class	Chromate conversion coating (Iridite) and black anodize	Aluminum 6061 T6				
IN-5	GSFC 2054505	ACD, BEA	Tom Johnson	Metallic	Surface treatment in accordance with Mil-C-5541, Class 1A	Boss, Threaded	Mil-C-5541, Class 1A	Chromate conversion coating (Iridite)	Aluminum 6061 T6				
IN-6	GSFC 2054506	ACD, BEA	Tom Johnson	Metallic	Surface treatment in accordance with Mil-C-5541, Class 1A	Nut, Jam	Mil-C-5541, Class 1A	Chromate conversion coating (Iridite)	Aluminum 6061 T6				
IN-7	GSFC 2054507	ACD, BEA	Tom Johnson	Metallic	Surface treatment in accordance with Mil-C-5541, Class 1A and Mil-A-8625 Type II, Class 2	Cover, High Voltage	Mil-C-5541Class 1A/Mil-A-8625 Type II, Class	Chromate conversion coating (Iridite) and black anodize					
IN-8	GSFC 2054508	ACD, BEA	Tom Johnson	Metallic	Surface treatment in accordance with Mil-A-8625 Type II, Class 2 Black	Holder, PMT	Mil-A-8625 Type II, Class 2	Chromate conversion coating (Iridite)					
IN-9	GSFC 2054509	ACD, BEA	Tom Johnson	Metallic	Surface treatment in accordance with Mil-A-8625 Type II, Class 2 Black	Light Baffle, PMT	Mil-A-8625 Type II, Class 2	Chromate conversion coating (Iridite)					
IN-25	GSFC 2054526	ACD, Shell	Tom Johnson	Metallic	Anodize in accordance to AMS-2488	Inserts	AMS-2488	Anodize					