

GLAST LAT Mechanical Parts Review Board Meeting Minutes

Title:	Date:	Document #
Mechanical Parts Review Board Meeting Minutes	September 6, 2002	LAT-LR-01013-1
Reference:		
<p>GLAST00110, "Mission Assurance Requirements (MAR) for Gamma-Ray Large Area Telescope (GLAST) Large Area Telescope (LAT)", June 9, 2000, Section 7.1.1. LAT-PS-00635, "LAT Tracker SSD Ladder Assembly Procedure", Draft August 13, 2002.</p>		
Use:		
Review Document LAT-DS-00405-2 Mechanical Materials & Parts List for Tracker Ladder Assembly		
Related Documents:		
<p>GLAST00110, "Mission Assurance Requirements (MAR) for Gamma-Ray Large Area Telescope (GLAST) Large Area Telescope (LAT)", June 9, 2000</p>		
Place/Time/Purpose of Delivery:		
SLAC / 9:30 am PST / To record the minutes of the Mechanical Parts Review Board Meeting		
Attendees Present:	Attendees Not Present:	
Lowell Klaisner SLAC Jim Martin SLAC David Lung ONE Martin Nordby SLAC Jeffrey Tice SLAC	Darren Marsh SLAC Dick Horn SLAC	
Preparation Information:		
Review of Tracker Ladder Assembly materials for the Production Readiness Review (PRR) that will be held on September 12, 2002. These materials need approval before CDR because of the long lead-time to fabricate the Tracker Ladder Assembly that will be used for flight hardware.		
Tracker Inorganic:		
1). IN-87 (Silicon) is for the silicon strip detectors (SSD)		
<u>Issues:</u> Quantities for the SSD's: 18 (gaps per tower) x 2 (sides) x 16 (SSD's) x 16 (towers) = 9,216 total SSD's.		
This material was accepted by all members present (SLAC IPO accepted).		
2). IN-88 (Aluminum 99% Si 1%) is for the wire to electrically connect the SSD's.		
<u>Issues:</u> The drawing number should be the Procurement Spec Number; this information will be supplied from Robert Johnson or Tom Borden. The quantity for this material will be "As Required". The title of drawing "Ladder Assembly procedure" will reflect the Procurement Spec Number title.		

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This material was accepted by all members present (**SLAC IPO accepted**)

Tracker Polymer & Composites:

1). **PC-61** (Scotchweld 2216 B/A Grey) bonding of edges of SSD wafers to each other.

Issues: Need procurement spec number from Robert Johnson and or Tom Borden.

This material was accepted by all members present (**SLAC IPO accepted**)

2). **PC-77** (GE RTV615) adhesive for encapsulation fill.

Issues: Drawing/Document Number will be the Procurement Spec Number from Robert Johnson or Tom Borden. This material does not pass outgassing specs (ASTM-E-595) for either TML or CVCM. If this material is used a Material Usage Agreement (MUA) must be submitted to SLAC IPO and GSFC Code 541.

This material was provisionally accepted by all members present (**SLAC IPO provisionally accepted**).

3). **PC-78** (Dow Corning 3145 RTV) adhesive for encapsulation dam.

Issues: Drawing/Document Number will be the Procurement Spec Number from Robert Johnson or Tom Borden. This material does not pass outgassing specs (ASTM-E-595) for either TML or CVCM. If this material is used a Material Usage Agreement (MUA) must be submitted to SLAC IPO and GSFC Code 541.

This material was provisionally accepted by all members present (**SLAC IPO provisionally accepted**)

Tracker Process:

The review for this was delegated to the PRR, scheduled for 12 September 2002.

Other Issues:

Jim Martin recommends that the GLAST LAT Mechanical Materials & Parts List change some of the headings and formatting for ease of use: (1) Move "Title of Drawing" next to "Drawing/Document Number" for all lists. (2) For the Process list delete "Drawing/Document Number" and replace it with "Process Specification Number". (3) For Inorganic list add "Fastener" to "Procurement Spec Number" and "Details". (4) For Inorganic list, add "Raw Material" to "Fab Method". (5) For Polymer & Composites list add "Total Surface" to "Area". (6) For Process list move "Process Identification" next to "Process Specification Number".

All members present agreed upon these changes.

The LAT Mechanical Materials & Parts List with the Help menu will reflect all changes mentioned above.