GLAST LAT Mechanical Parts Review Board Meeting Minutes

Title: Mechanical Parts Review Board Meeting Minutes
Date: September 6, 2002
Document #: LAT-LR-01013-1

Reference:

GLAST00110, “Mission Assurance Requirements (MAR) for Gamma-Ray Large Area Telescope (GLAST) Large Area Telescope (LAT)”, June 9, 2000, Section 7.1.1.

Use:

Review Document LAT-DS-00405-2 Mechanical Materials & Parts List for Tracker Ladder Assembly

Related Documents:

GLAST00110, “Mission Assurance Requirements (MAR) for Gamma-Ray Large Area Telescope (GLAST) Large Area Telescope (LAT)”, June 9, 2000

Place/Time/Purpose of Delivery:

SLAC / 9:30 am PST / To record the minutes of the Mechanical Parts Review Board Meeting

Attendees Present:

Lowell Klaisner   SLAC
Jim Martin   SLAC
David Lung   ONE
Martin Nordby   SLAC
Jeffrey Tice   SLAC

Attendees Not Present:

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)

Issues: 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.

Issues: 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.
This material was accepted by all members present (SLAC IPO accepted)

**Tracker Polymer & Composites:**

1. **PC-61** (Scotchwell 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:**


All members present agreed upon these changes.

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