

GLAST LAT I&T

*GLAST Monthly
Mission Review
Jan 5, 2006*

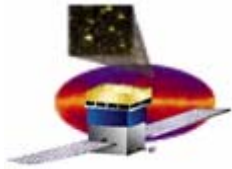


Monthly Mission Review

LAT Shipping Plan

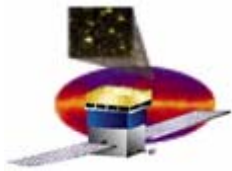
January 5, 2006

**W Neil Johnson
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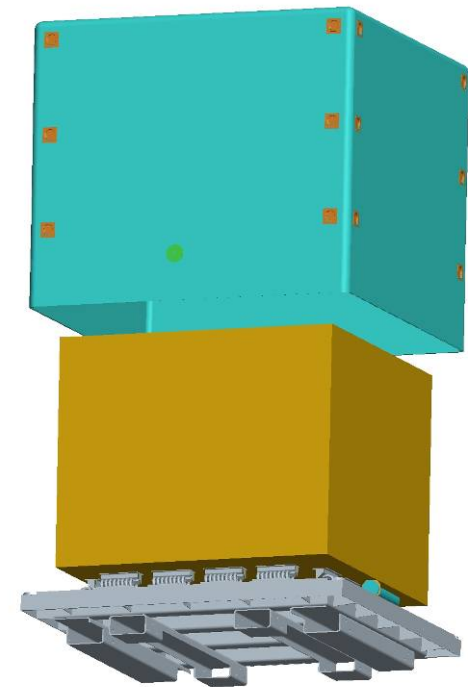
Baseline Shipping Agreements

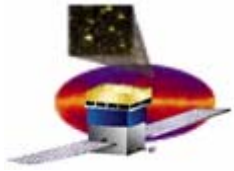
- **GLAST Project Office and GSFC Transportation Office will take responsibility for the shipping of LAT to NRL and to Spectrum Astro**
 - GPO will take lead responsibility in developing requirements, documentation, and schedule.
 - Ownership of LAT will temporarily transfer to GSFC during the shipping.
 - Final transfer of LAT to GSFC responsibility will occur at Spectrum Astro after completion of LAT post-ship testing by LAT team
- **Baseline shipping method is via C5A air transport arranged by GSFC Transportation Office.**
 - C5A will transport LAT in its shipping container and all required MGSE and EGSE in a single flight.
 - Currently holding March 10 - 11, 2006 for pickup of LAT at Moffet Field and delivery to Andrews AFB in DC.
- **Backup shipping method is via truck also arranged by GSFC Transportation Office.**



LAT Transport Container

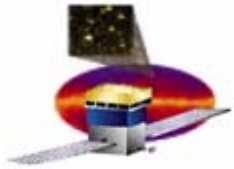
- ❑ **Manufacture: completed by 1/9/06**
 - **Weldment - subfloor: completed 12/29/05**
 - **Weldment - load frame: completed 12/29/05**
 - **Misc pieces: to be completed by 1/9/06**
 - Mounting plate, Guide Rods, WireRope assemblies
- ❑ **Base Assembly: completed by 1/16/06**
 - **Load Test: completed 1/20/06**
 - **Analyses Report: completed 1/13/06**
- ❑ **Container Assembly Complete 1/27/06**
- ❑ **Delivered to SLAC: 2/3/06**





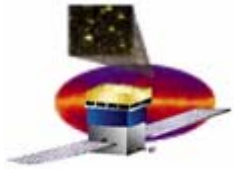
Transport Container Requirements

- ❑ **Handle loads per NASA HDBK 7005**
 - Air: +/-3 g vertical, +/- 1.25g horizontal
 - Grnd: +6 g vertical, +/-2 g, horizontal
 - ContainerDesign: +/-6 g vertical, +/-3.5 g longitudinal, +/-2 g lateral
- ❑ **Characteristics**
 - Cover has air-tight seal w/ 2 way overpressure valve – incorporates charcoal and HEPA filters
 - Dessicant container – provides up to 4 weeks of useable life
 - Active purge capability – but purge support is external to container.
 - Environmental monitoring – 3 axis shock, temperature, humidity



Manifest

- ❑ **Detailed Manifest is being developed by Jeff Tice**
- ❑ **LAT in Transport Container**
 - **~12,000 lbs**
 - **88 x 88 x 84 inches**
- ❑ **MGSE / EGSE**
 - **~40,000 lbs**
 - **1,800 cu. ft.**



Issues / Concerns

- ❑ **Develop detailed plan/schedule for the interchange of information and materials**
 - **Timescale for implementation of backup transport**
 - **Notification / reaction to improved (or degraded) schedule for shipments**
- ❑ **Process for transfer of responsibility for LAT between Stanford and GSFC**