Monthly Mission Review
LAT Shipping Plan
January 5, 2006

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Baseline Shipping Agreements

GLAST LAT I&T

Jan 5, 2006

- 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
- 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