GLAST Large Area Telescope

Instrument Flight Software

Monthly Status Review
September 30, 2004

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September activities

• Prepared for and conducted the Flight Unit Peer Review
  – Held on September 16th
  – Successfully completed
  – 6 RFAs generated
September activities (2)

- **ISIS Development**
  - Science Data interface is working
  - Development build is undergoing extensive testing

- **Primary and Secondary Boot**
  - EPU boot coding underway

- **Intertask Communication System (ITC)**
  - Continued coding of ITC
September Activities (3)

- LAT Communications Board Driver
  - New driver successfully running all test cases
  - Driver design is stable and implementation virtually complete

- LAT Communications Board Test
  - Added new tests to exercise the new LCBD driver

- LAT Electronics Module Package
  - Conducting unit testing with new LCBD
September activities (4)

• Housekeeping
  – Completed unit testing with new LCBD driver and released package

• FES
  – Code added to support new ACD data files
  – Bug fixing activities continue
FSW Test

- Weekly progress meetings to review progress vs. schedule will be held
  - Number of procedures (pseudo code) written
  - Number of scripts (code) written
  - Coordination of test stand availability to support test needs
- Offer in process for physics test engineer
Monthly Demonstration Schedule

- Jun  Telemetry
- July ITC/Housekeeping packages integrated
- Aug  ISIS
- Sept LCB/Command & Telemetry
- Oct  EPU Boot/LCB Service/Power/Init GASU
- Nov  File Mgt/SC Interfaces/ITC
- Dec  C&T Data Dictionary/Thermal/Charge Injection Calibration
- Jan  Housekeeping/Event Integrity, Delivery, Filtering
- Feb  Mode Control/Diagnostics
• ~13% requirements will be demonstrated as of this Friday’s demo
  – 4 new requirements covering science data interface; command, configuration, and data collection interfaces
• Additional 15% of requirements partially demonstrated
• Only fully demonstrated requirements shown in graph
Next 3 Month’s activities:

• ISIS Build and Test scripts, TRR, FQT & Delivery
• Development of Flight Unit modules
• Development of Flight Unit test scripts
• Start developing formal release process
• Make PROM go/no-go decision