GLAST Large Area Telescope

WBS 4.1.B IOC
GSFC Monthly Review

Period Ending: August 2003

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August Accomplishments

- Supported final review of Ground System Requirements Document (GSRD) with GSFC
- Completed draft update of IOC specifications with traceability to the GSRD
  - LAT-SP-00015 LAT Ground System Performance Specification – Level II(b) Specification
- Database
  - FSW prototype command and telemetry database schema and tools shows core functionality
  - Reviewed and plan to follow mnemonic naming convention received from GSFC
Open Issues/Concerns

- No significant technical threat at this time

- Concerns
  - Instrument performance and evaluation group
    - Concern: The function has been identified, but the formulation of the group’s role and responsibility has not been agreed upon.
    - Closure Plan: The PI is providing the leadership role in formulating the group’s role and responsibility. A preliminary study by the LAT team is underway.
Key Milestones

- **Next 3 months**
  - IOC Subsystem Peer Review – tentatively combine with CDR
    - Verification and Validation Plan (Preliminary release) – 9/5/03
    - Release updated IOC requirements with final GSRD inputs – 9/30/03
    - Establish internal IOC data interfaces – 10/15/03
    - Establish first draft of Operational Data Product ICD between LIOC/MOC/GSSC/GIOC and Science Data Product ICD between LIOC/GSSC – 10/31/03
    - LAT command and telemetry database definition (Preliminary) – 10/31/03

- **IOC readiness dates support the Ground Readiness Testing**
  - GRT# 1-4: IOC ready by August 2004
  - GRT# 5-7: IOC ready by September 2005
Cost & Schedule Status

- **Schedule & Cost threat**
  - There are no schedule and cost threats in IOC’s critical path

- **Cost & Schedule Variances (July)**
  - Currently, the IOC budget is transitioning from LAT budget to SLAC operations budget
  - The Cumulative Cost & Schedule Variance of +313K (Cost) and -95K (Schedule) is a snapshot prior to the rebaseline efforts
Cost Variance Analysis

- Cumulative Cost Variances (July): +313K
  - +103K, 4.1.B.1 Project Management – Under run continues as IOC manager (acting) is charged to SLAC operating budget
  - +127K, 4.1.B.4 LAT Operations Facility – The accumulative under run was due to lack of personnel to support this task. IOC engineer was hired, however charge is to SLAC operating budget
  - +50K, 4.1.B.6 LAT Performance Verification – see 4.1.B.4
  - Rebaselining will remove cost variances
Schedule Variance Analysis

- Cumulative Schedule Variances (July): -95K
  - -26K, 4.1.B.2 Performance Assurance – This is due to 50/50, as IOC has not completed the Verification Plan
  - -32K, 4.1.B.4 LAT Operations Facility – Significant portion of the schedule variance is due to M&S that will not be required.
  - -37K, 4.1.B.6 LAT Performance Verification – Development of the calibration procedures is behind schedule. IOC has corrected this situation by hiring an engineer/scientist to work with I&T to support the calibration effort