GLAST Large Area Telescope

LAT Systems Engineering

Acceptance Test Data

Package Requirements
Acceptance Test Data Package Summary

This information is deliverable with each unit

Described in LAT-MD-00408:

- **ID Information** (per LAT-MD-00466)

- **Mechanical Summary Data**
  - Show conformance to the subsystem component ICD

- **Electrical Interface Data**
  - Show conformance to the subsystem component ICD
  - Results of unit dependant Electrical Interface Tests
    - Isolation
    - Insulation resistance
    - Hi-Pot
    - CSCM/CECM Tests

- **Unit Calibration Data**
  - Data required to operate the unit properly

- **Unit Performance Data**
  - Data necessary to determine like or degrading performance
  - Functional Test Performance Summaries
Acceptance Test Data Package (continued)

• Unit Support Data is required
  – to successfully operate the unit at the next level of assembly
  – to support spot verifications of unit acceptance test data
  – Supports unit Configuration
    • Internal component Cal Curves (like thermistors)
    • Dead Channel Lists

• Operational Support Data
  – Processes
  – Procedures
  – Test Scripts

• Quality Data
  – Certifications
  – NCR summary
  – Failure Free Power On Time
  – Installation, Mate/de-Mate Logs
Acceptance Test Data Package - Actions

• ATDP requirements will be
  – Updated against ICD contents
  – made compliant to current program requirements
  – Designed to capture necessary flow of information as required by the program plan

• Systems Engineering will
  – Provide a matrix or ATDP requirements by subsystem (1 week)
  – Update the LAT-MD-00408 LATPVP (mid-August)