



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 of ATDP requirements by subsystem (1 week)
 - Update the LAT-MD-00408 LATPVP (mid-August)