



GLAST Large Area Telescope

LAT Flight Software
TRR

Software Quality Assurance

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SQE TRR Assessment

- **FSW Documentation up to date**
 - **LAT-SS-00399 FSW Requirements Specification**
 - **LAT-TD-00786 FSW Test Plan**
 - **LAT-MD-00104 FSW Management Plan**
- **FSW-related Quality Documentation up to date**
 - **LAT-MD-00091 LAT Quality Manual**
 - **LAT-MD-00472 Corrective & Preventive Action**
- **Test Procedures are complete and in LATDocs, Test Scripts are in CVS and all are under CCB control**
- **Requirements Matrix has been verified for completeness**
- **Participation in FSW CCB and regular auditing of JIRA items verifies that FSW CCB and corrective action processes are being followed per LAT-MD-03082 and LAT-MD-00472**
- **SQE Test Procedure Dry Runs with the Test Team provided feedback to streamline and successfully execute formal tests**



SQE Post TRR Activities

- Track open action items and lien list
- Help to drive items to closure
- Track JIRA Items
- Provide Build verification support
- FQT runs
 - Validate configuration prior to test execution
 - Witness and approve test execution
- Participate in normal FSW CCB activities to support any needed software cycles
- Help prepare final documentation package to include:
 - DID 335; Flight Software Requirements Specification
 - DID 336; Software Test Plan
 - DID 337; Software Test Procedures and Software Test Reports
 - DID 339; Software Management Plan
 - DID 340; Software/Algorithm Design Document
 - Version Description Document
 - Complete Code and Test Script Package
- Prepare archival of Quality Records



NASA/GSFC SQA Assessments

- **Successfully completed software quality assessments by GSFC SQA, Randy Worden**
 - **Engineering Peer Review**
 - **Requirements Management Process**
 - **Project Planning**
 - **Risk Management**
 - **Software Problem Reporting**