

GLAST Large Area Telescope

LAT Flight Software

System Checkout

Test Readiness Review

September 16, 2005

Dick Horn

FSW Manager

Sergio Maldonado

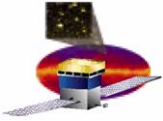
FSW Test Team Lead

Stanford Linear Accelerator Center



Agenda

- **Intro - Dick**
 - **Comments/Recommendations**
 - **Scope & Objectives**
 - **Summary of current status**
 - **Schedule**
- **Systems Engineering - Mike**
- **FSW Overview - Sergio**
- **Test Process - Sergio**
- **Test Environment - Sergio**
- **Current Status - Sergio**
- **SQA - Kelly**
- **Safety - Dick**
- **Wrap-up – Dick**



Comments/Recommendations

- Forms available for recommendations
- Indicate recommended closure milestone
 - System Checkout FQT
 - System Checkout Post-Test Review
 - System Test TRR
 - Etc.
- Will review at end of TRR



Scope and Objectives

- **System Checkout FQT Goal**
 - **Verify functionality before running in I&T System Checkout environment (not a “run for the record”)**
 - **Formal run of test scripts prior to delivery**
 - **All scripts will be re-run during pre-System Test run for the record**
- **System Checkout TRR Goals**
 - **Demonstrate thoroughness and completeness of test program**
 - **Show clear mapping of requirements to procedures**
 - **Describe test environment**
 - **Identify open issues**
 - **Communicate action plan to address open issues, identifying clear entrance/exit criteria for System Checkout FQT**
- **Verification of GRB-related requirements and standards requirements deferred to System Test FQT**



Summary of Current Status for System Checkout FQT Readiness

- **Development**
 - **Major known liens:**
 - **Command/control/telemetry/mode interface to event data (LPA)**
 - **Implementation of output to the Science Data Interface**
 - **Minor open items detailed later**
- **EGSE**
 - **VSC science data decoder**
- **Test procedures and scripts**
 - **All test procedure documents are complete**
 - **7 of 46 test scripts ready to go**
 - **17 of 46 need to incorporate recent updates**
 - **22 of 46 dependent on outstanding development items**



Schedule

- **Test Readiness Review (TRR) -September 16**
- **Close all required action items**
- **FSW build V0-5-0 –September 22**
- **Script Dry Runs/Closure September 23 – October 5**
- **System Checkout FQT– October 3 - 7**
- **Post Test Review (PTR) – October 11 (TBR)**
- **Delivery – ASAP after PTR**
- **System Checkout begins – October 15**