

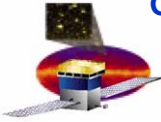
GLAST Large Area Telescope

Systems Engineering

Test Status, NCRs and Verification Status

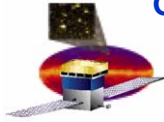
Pat Hascall
Systems Engineering
Joe Cullinan
Quality

Stanford Linear Accelerator Center



LAT Test Status

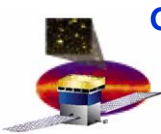
- Completed CPT 3
- Completed ARM rework RE102 testing
- End-to-End 3
- FSW B1.0.5 upload and regression test
- DITL
- GRB test
- Post ship aliveness test
- Issues seen
 - See FSW presentation for FSW issues
 - LATC register setting update was not consistent with current calibration data
 - Interim process for generating LATC files was used
 - » MOOT process not yet fully implemented
 - Manual step missed and one process step was incorrect
 - Providing additional crosschecks during regeneration
 - LAT CCB identified additional tools that will help manage the LATC files



Operating Hours

- As of Dec 4, 2007 the LAT is nearing 800 operating hours since the timer fix was installed
- B1.0.5 has 50 operating hours

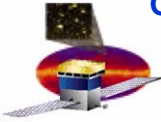
LAT Unit Operating Time (Hrs)												
SIU-P	SIU-R	GASU-P	GASU-R	EPU-P0	EPU-P1	EPU-R	CAL/TKR/TEM	ACD	ACD HV1	ACD HV2	PDU-P	PDU-R
2067	2114	2026	2155	2163	4048	2152	4182	4182	2050	2132	2073	2109



NCR Summary Status

- **Revisiting LATC verify failures, which could close one more QAR and 2 NCRs**

Closure Plan	Definition	Count
Work continuing		
QAR	CND or other issue transferred to a QAR	4



LAT Level Verification Status

Category	Verification Method					Totals	
	Test	Demo	Analysis	Inspection	Children	Complete	% Comp
	# Comp	# Comp	# Comp	# Comp	# Comp		
Requirement Identified	118	71	210	37	22	458	100.0%
Flow Down Complete	118	71	210	37	22	458	100.0%
Draft Verification Plans	118	71	210	37	22	458	100.0%
Final Verification Plans	118	71	210	37	22	458	100.0%
Verification Plans Executed	104	63	194	35	17	413	90.2%
Verification Reports Submitted	104	63	194	35	17	413	90.2%
Requirements Sold	104	63	193	35	15	410	89.5%
Expect Compliance	0	0	0	0	0	0	0.0%
Verifications Plan Deferred	14	8	16	2	5	45	9.8%
Requirements Issues	0	0	0	0	0	0	0.0%
Total VPs	118	71	210	37	22	458	

- **Progress this month**
 - All 458 VPs are Final
 - 410 of 413 VPs planned for execution have been approved by GSFC
 - 1 SRD VP (Background Rejection) in work by GSFC
 - 2 Observatory level Shock VPs recently submitted to GSFC for approval
- **Status**
 - VCRM version 28 released
 - All deferred GRB reqts will be sold post FSW B1.0.6 installation