

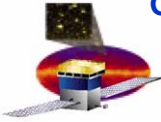
# GLAST Large Area Telescope

## Systems Engineering

# NCRs and Waivers Verification Status

Pat Hascall  
Systems Engineering  
Joe Cullinan  
Quality

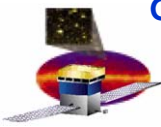
Stanford Linear Accelerator Center



# LAT Test Status

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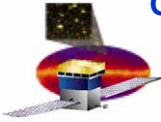
- **The LAT functional test status**
  - **Current liens include:**
    - Retests completed
    - One checksum error during a file upload that has been moved to a QAR (SC issue- dropped commands)
  - **Flag status**
    - **Nearly complete on flag closure**
      - 222 were opened (many duplicates)
      - 1 still open, can close
        - » Limit check caused by script timing – fix completed per LS-211
- **Absolute time test with muon telescope**
  - **Observed unexpected sawtooth in the delta between the the SC time and the reference muon telescope GPS time**
  - **Drifts were also higher than expected when GPS was not locked**
  - **Working with Jim Joseph to resolve**



# NCR Summary Status

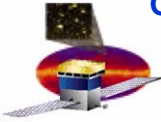
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Closure Plan	Definition	Count
Issue resolved, closure plan in place or no impact to LAT		
Closing	Issue resolved, documentation required to close or EGSE issue to be closed "used as is"	8
Work continuing		
B1.0.0	Resolved with FSW release B1.0.0 or later	2
QAR	CND or other issue transferred to a QAR	9
In process	Investigation ongoing	2



## Status of NCRs Promoted to QARs

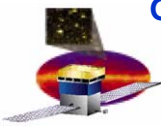
Open NCR	Corresponding QAR	Description	Resolution
880, 881, 902, 948, 949	1196-4894	EPU, SIU Reboots	CND, hold open
942	1196-4895	+X, -X LAT blanket replacement and final closeout	Close post TV at final closeout
946	1196-4876	ACD FREE board 5 power up	CND, no repeats
855, 894	1196-4894	LATC verify and dump errors	CND, no repeats



# NCR Progress

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- **NCRs closed**
  - 958 (phasing errors), 922 (LHK stopped), 975 and 989 (4 second time jump)
- **NCRs in process**
  - **NCR 983 LTC file size changed**
    - New LTC files generated and in FMX, still need to integrate with script/MOOT
    - Expected completion by end of week
  - **NCR 990 Watchdog timer**
    - Script change to accommodate watchdog timer settings is completed and will be rolled in at the next available opportunity
- **NCRs closing**
  - **NCR 992 (TEM phasing errors)**
    - LAT work is done, still need changes to on-line analysis – will close that part to the JIRAs to update the analysis
  - **EGSE NCRs (852, 884, 933, 936, 959, 960, and 967) will be reviewed with Bernie and closed to “use-as-is” where appropriate**



# LAT Level Verification Status

Category	Verification Method					Totals	
	Test	Demo	Analysis	Inspection	Children	Complete	% Comp
	# Comp	# Comp	# Comp	# Comp	# Comp		
Requirement Identified	120	73	206	37	22	458	100.0%
Flow Down Complete	120	73	206	37	22	458	100.0%
Draft Verification Plans	120	73	206	37	22	458	100.0%
Final Verification Plans	120	73	206	37	22	458	100.0%
Verification Plans Executed	101	63	188	35	15	402	87.8%
Verification Reports Submitted	101	63	187	35	15	401	87.6%
Requirements Sold	82	58	158	22	13	333	72.7%
Expect Compliance	0	0	0	0	0	0	0.0%
Verifications Plan Deferred	19	10	18	2	7	56	12.2%
Requirements Issues	0	0	0	0	0	0	0.0%
<b>Total VPs</b>	<b>120</b>	<b>73</b>	<b>206</b>	<b>37</b>	<b>22</b>	<b>458</b>	

- **Progress this month**
  - All 458 VPs are Final
  - 401 of 402 VPs planned for execution to this point are submitted, last one expected this week (thermal distortion model – STOP analysis)
  - 16 VPs sold this month
  - 48 VPs just submitted to GSFC on 23 Feb in the TV Test Report
- **Status**
  - VCRM version 25 released
  - All deferred GRB reqts will be sold post FSW B1.0 installation