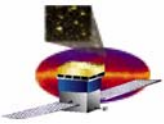**Gamma-ray Large Area Space Telescope**

GLAST Large Area Telescope:
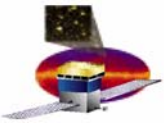
Performance & Safety Assurance

Darren Marsh
SLAC
Performance & Safety Assurance Manager

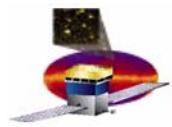**Marsh@SLAC.Stanford.Edu**
650-926-4577

LAT NCR Metrics

Subsystem	Open NCR's	Closed NCR – Last 20 days	# Over 30 Days Open
DAQ	9	19	3
Tracker (SLAC)	28	21	11
Mechanical	5	2	3
Calorimeter	*	*	*
ACD	*	*	*
I&T	3	4	1
* No metrics provided			

NCR Activities

- **Good progress on addressing subsystem NCR's**
  - **46 NCRs closed in past 20 days!**
  - **Need to improve on <u>timely</u> closure of NCR's**
- **Specific Subsystem NCR activities**
  - **Tracker**
    - **MCM and flex cable NCRs account for 22 of the open NCRs**
      - **These NCR are activity being addressed and closure plan is in place**
      - **Flex cable problems continue to be troublesome**
        - » **Error-free workmanship from Parlex appears doubtful**
      - **Rework of flex cable resistor has become responsibility of QA**
        - » **Resource issue**
    - **Unknown closure plan for the following NCRs:**
      - **318 – Shims not marked with incorrect revision**
      - **315 – Sidewall inserts have paint obstructing screw movement**
      - **297 - ~10% of channels could be out of spec for trigger jitter req.**
      - **281 – Tower A discrepancy between INFN test script and engineering document**
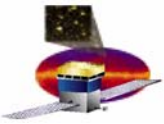
3

NCR Activities (Con't.)

- DAQ
  - Closure plan in place for 5 TEM/TPS NCRs
  - Critical NCRs pertains to EEPROMs and EPU/SIU LCB coupons failures
- Mechanical
  - Need to converge on closure of 5 open NCRs
- I&T
  - NCR No. 278 open over 30 days and needs to be addressed
    - "Test SW hung up while taking a snapshot at the end of the calf_mu_optical test script, part of the CAL CPT"

Inter-dependency with I&T

- **I&T Planning**
  - **Shift work and plan of the day activities are extremely fluid**
    - **Short notice for weekend and second shift activities**
      - **QA support requirements are unclear for this weekend**
    - **Weekend work is unplanned in QA budget**
    - **Twice daily I&T meetings occur but *Plan of the Day (Shift)* e-mail would be useful**
      - **Plan should address "on-call" subsystem personnel for swing shift**
        - » **LAT QA needs ability to call for immediate MRB**
  - **Call List for "off-shift" activities**
    - **QA Call List Distributed**
    - **Request I&T publish key personnel call list**