I&T&C Organization Chart

I&T&C Manager
Elliott Bloom
WBS 4.1.9

I&T Engineer
B. Grist
WBS 4.1.9.1

Reliability & QA
D. Marsh
WBS 4.1.9.2

Instrument Operations
Coordinator
S. Williams

Mechanical Ground
Support Equipment
TBD

Online Manager
R. Claus

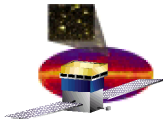| Integration, Facilities, Configuration, and Test O.Millican (Acting)	Particle Test Manager G.Godfrey	Environmental Test Manager M. Lovellette	Science Verification, Analysis, and Calibration E. do Couto e Silva
I&T Preparation 4.1.9.3	I&T Preparation 4.1.9.3	I&T Preparation 4.1.9.3	I&T Preparation 4.1.9.3
EM1 Model I&T&C	EM1 Model I&T&C		EM1 Model I&T&C
Calibration Unit I&T 4.1.9.4	Calibration Unit I&T 4.1.9.4		Calibration Unit I&T 4.1.9.4
Flight LAT I&T 4.1.9.6	Flight LAT I&T 4.1.9.6	Flight LAT I&T 4.1.9.6	Flight LAT I&T 4.1.9.6
Mission I&T Support 4.1.9.7	Mission I&T Support 4.1.9.7	Mission I&T Support 4.1.9.7	Mission I&T Support 4.1.9.7

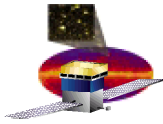# Performance & Safety Assurance

- ## Requirements Summary
  - **The LAT I & T activities will be conducted in accordance with:**
    - **GLAST LAT MAR, GSFC 433-MAR-0001**
    - **GLAST LAT PAIP, LAT-MD-00039**
    - **GEVS-SE, Dated June 1996**
    - **GLAST LAT System Safety Program Plan**
  - **The LAT ground data system assurance program will be developed in accordance with LAT MAR/PAIP**
  - **Lessons learned from other programs will be utilized through-out the program**
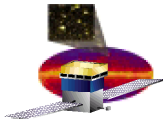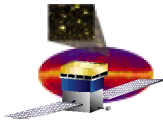
Performance & Safety Assurance

- **Quality Assurance Activities**
  - **Process control system**
  - **Test and inspection of hardware & software**
  - **Training and certification of personnel**
  - **Measuring and test equipment calibration**
  - **Review test plans and procedures**
  - **Review quality program records**
  - **Monitor LAT Team Member I & T activities**
  - **Contamination Control**
  - **Configuration control as detailed in the LAT Configuration Management Plan**

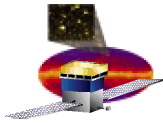# Performance & Safety Assurance

- ## I & T Controls
  - Items maintain identity by drawing number and serial number
  - Material Review Board action required for non-conforming material
  - I & T processes continually monitored
  - Controlled storage for assemblies in I & T
  - Contamination control
    - Facility certified by an outside organization
    - Class 10,000 maintained by monitoring and cleaning
    - Continuous monitoring for particle counts and hydrocarbons
    - Surface cleanliness verification of flight hardware by optical witness samples, particle fallout plates, and/or tape lifts
    - Use of cleanroom garments and equipment required
  - Calibration and QA monitoring of critical equipment, tooling, jigs, and fixtures

Performance & Safety Assurance

- **<u>Deliverable Documentation</u>**
    - **Nonconformance Reports**
    - **Failure Analysis Reports upon request**
    - **Material Review Board actions if cost, schedule, or performance affected**
    - **Verification Test Plan**
        - **Performance**
        - **Environmental**
        - **Verification Matrix**
    - **Test Procedures and Reports**
    - **Contamination Control Plan**
    - **Hazard analyses as required**

Performance & Safety Assurance

- ## <u>Test and Inspection Summary</u>
  - Test and inspection performed on all assemblies
  - System of controlling and approving documents in place
  - Specific procedures govern system level testing
  - Records of test and inspection are maintained
  - Use of workmanship standards
  - Use of nonconformance reporting system