GLAST Large Area Telescope

GSFC Monthly Review
2 December 2004

ISIS Development Status

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ISIS Progress

- Hardware delivered
  - Fully tested
  - Assembled in black enclosure
  - Cables dressed
  - Grounding complete
  - Temperature interlock installed for safety
  - Final checks of hardware and internal cables pending
- Software build delivered
  - ITC Command Verification added
  - Fully tested: expect final build by 12/3
- Documentation (see next slide for details)
  - See LAT-Docs (preliminary)
  - Documentation essentially complete
    - Documents undergoing internal review this week
- Test scripts
  - Progressing...
ISIS Documentation (completed!)

• SPECIFICATIONS/PLANS
  - LAT-TD-03975: LAT ISIS Requirements Specification
  - LAT-MD-04086: LAT ISIS Acceptance Test Plan
    - LAT-TD-TBD: LAT ISIS Design Specification (not released yet)

• PROCEDURES
  - LAT-TD-3541: LAT Safe Connection Procedure (Draft – internal review)
  - LAT-TD-TBD: LAT ISIS Acceptance Test Procedure (Internal review)

• OTHER
  - LAT-TD-TBD: ISIS FSW Build Description (Internal review)
  - LAT-TD-02659: FSW Telecommand and Telemetry Formats

• DRAWINGS
  - LAT-DS-05244: ISIS Enclosure Assembly EGSE
  - LAT-DS-05297: ISIS Grounding Diagram
    - LAT-DS-04439: ISIS DAQ Hardware Mounting Plate
    - LAT-DS-04440: ISIS GASU Mounting Rail
    - LAT-DS-04441: ISIS PDU Mounting Rail
    - LAT-DS-04461: ISIS Connector Panel +X
    - LAT-DS-04489: ISIS -X Connector Panels
    - LAT-DS-04593: ISIS Temperature Sensor Enclosure
    - LAT-DS-04594: ISIS PDU Test Box Front Panel
    - LAT-DS-04610: ISIS Heater Control Box and VHCP Load Box Mounting and Front Panels
    - LAT-DS-05147: ISIS SIU Adapter Plate EGSE
    - LAT-DS-05235: ISIS Enclosure Blank Panel EGSE
    - LAT-DS-05245: ISIS Enclosure Panel Temp Monitor EGSE
Action items

11/29 (Monday)
• Pre-ITC documentation completed and distributed for internal review. Documents include:
  ✓ ISIS safe-to-mate
  ✓ FSW build description
  ✓ Acceptance test procedures (encompassing completed test scripts)
  ✓ Mechanical drawings
• ITC command verification completed
• Miscellaneous mechanical issues resolved
  ✓ Cables dressed
  ✓ Grounding completed and documented
  ✓ Temperature interlock installed for safety

12/1 (Wednesday)
✓ ITC command verification integrated into ISIS packaged and tested
• Pre-ITC test scripts completed

12/3 (Friday)
• Review of pre-ITC documentation
• Pre-ITC test scripts fully integrated into documentation
• ISIS build complete

12/8 (Wednesday)
• All documentation complete
• Comments from review integrated into documentation
• Final hardware checks complete
• All test scripts complete

12/13 (Monday)
• Test Readiness Review
ISIS Schedule

- **ISIS Acceptance Test Development**
  - Schedule driven by test script development
  - Stumbling block: decommutation of packets by AstroRT interface
    - AstroRT ITOS translation buggy
    - Implementing work-around
    - SpectrumAstro has been informed of issues

- **Schedule Concerns**
  - Test script development slower than expected
  - Acceptance test procedures written as test script development completes; lags by 1 day
  - Anticipated delivery of SIIS (12/14) impacts schedule
# Schedule

## Dec 2004

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