



Monthly Mission Review

Project Status Overview

February 8, 2007

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LAT Project Status

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1/18	FSE B0-8-0 Available
1/22	Functional Test Complete
1/25	Successful Config 1 B0-8-0 Installation
1/26	Muon testing begins. Two reboots
1/27	Muon testing continues. One reboot.
1/31	Radiator Installation preparations complete.
2/2	FSW B0-8-1 installed.
2/7	Begin 32 hours tests. One reboot.
	Completed Functional Test data taking.



LAT Planned Milestones

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Activity	ECD
LAT FSW 0.9.0	2/20/07
LAT/SC Signal Characterization	2/19/07
Observatory CPT Completion	3/6/07
LAT Radiator Integration	3/14/07
LAT FSW 1.0.0	5/1/07

I&T/Online Progress

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- □ Tools, configuration files, DAQ and analysis scripts updates and maintenance
- Fixed incorrectly decommed spacecraft telemetry
- LICOS to Astro-RT interface can now reconnect when PTP is rebooted
- Added a logging feature to the processing of LAT SSR-dump of VCDU science data to assist I&T operators in monitoring data completeness
- □ Addressed testing/V&V environment "versionitis"
- □ Supported I&T at GD
 - Functional tests
 - Upload FSW B0-8-0 1/25/07
 - Upload FSW B0-8-1 2/2/07
- □ Diagnosed science data problems that showed up with FSW B0-8-0
- MOOT-based Register & Software Configuration Tools development (Panetta, Charles, Decotigny)
 - Used to populate the configuration database
 - Alpha release made
- DFI "plug-in" development
 - Supports science data types in addition to LPA and LCI
- Various JIRAed bug fixes

JIRA issues (as of 2/6)

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Package	Issues opened since 1/9	Issues closed since 1/9	Total # of issues currently open		
LICOS	8	6	21		
LICOS_Config	6	8	8		
LICOS_ETC	16	12	23		
LICOS_Scripts	30	59	24		
INT	5	10	20		
LDF	0	0	1		
LSF	0	0	0		
E-Logbook	2	0	22		
Totals	67	95	119		

□ Note that some issues were moved between packages since last month

Top I&T Online JIRA issues

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- □ LCS-247: FMX file resolution is broken as of FMX V3-2-0
- LCS-240: Verify the FSW modules used against the current FSW build
- □ LS-195: LatPowerOn calculating power consumption incorrectly
- □ Register & Software Configuration Tools
- □ DFI integration into analyses (LS-88, LCS-72, LE-40, LE-38, LE-37, LE-36, LS-214)



MECH January Accomplishments

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- Released procedures for Radiator installation and LAT Final Close-Out
- Completed minor rework of Radiators in preparation of Radiator installation
 - Patched FOSR (reflector) cut-outs on outboard surface from LAT thermal vacuum testing
 - Re-install thermocouples and accelerometers required for OBS testing
 - Calibrated above accelerometers
- Updated LAT venting analysis to include MLI venting
- □ Supported SC LAT MLI blanket mock-up efforts on OBS at GD
- Supported Thermal Working Group meetings at GD
 - Presented details of LAT leveling techniques used at NRL

LAT Issues and Concerns

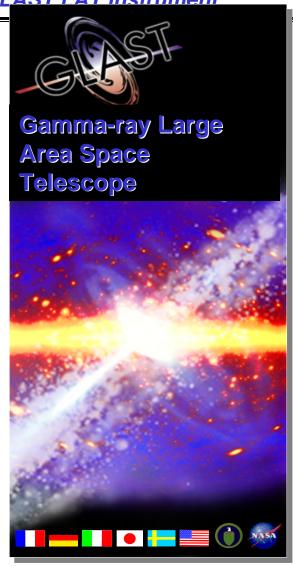
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□ LAT Reboots

- LAT team looking at test stand upgrades to incorporate flight spares for additional reboot test capability.
- □ Spacecraft Schedule
 - 32 hours continuous testing this week is helpful.
- Dropped telemetry packets
 - Causes DAQ script instability
- □ SSR capture issues
 - Delays data transfer/test completion



GLAST I AT Instrument



Cost/Schedule Reports for 4.1 LAT Presentation November 2006 Month End



CPR Level 3

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	Current Period		Cumulative to Date			At Completion			
DEC 2006 MONTH-END	Budgeted	Actual	Cost	Budgeted	Actual	Cost	Budgeted	Latest	Variance
By WBS Level 3	Cost	Cost	Variance	Cost	Cost	Variance		Estimate	
(1)	(2)	(4)	(6)	(7)	(9)	(11)	(12)	(13)	(14)
4.1.1 INSTRUMENT MANAGEMENT	186	316	-130	22,970	22,119	851	25,533	25,533	0
4.1.2 SYSTEM ENGINEERING	91	108	-18	10,977	10,993	-17	12,165	12,165	0
4.1.4 TRACKER	0	171	-171	21,486	21,443	43	21,486	21,486	0
4.1.5 CALORIMETER	0	1	-1	21,554	21,552	2	21,554	21,554	0
4.1.6 ANTICOINCIDENCE DETECTOR	0	1	-1	18,164	18,164	0	18,164	18,164	0
4.1.7 ELECTRONICS	57	851	-794	31,705	32,091	-387	32,455	32,455	0
4.1.8 MECHANICAL SYSTEMS	0	758	-758	17,463	17,438	25	17,463	17,463	0
4.1.9 INTEGRATION & TEST	142	232	-90	14,626	16,092	-1,467	16,130	16,130	0
4.1.A PERFORMANCE AND SAFETY ASSURANCE	36	195	-159	5,624	5,467	156	6,028	6,028	0
4.1.B LAT INSTRUMENT SCIENCE OPERATIONS CENTER	0	0	0	317	316	0	317	317	0
4.1.C EDUCATION AND PUBLIC OUTREACH	40	64	-24	3,463	3,223	241	3,988	3,988	0
4.1.D SCIENCE ANALYSIS SOFTWARE	71	21	49	4,178	3,841	337	5,114	5,114	0
4.1.E SUBORBITAL FLIGHT TEST	0	0	0	1,325	1,325	0	1,325	1,325	0
Gen. and Admin.	0	0	0	0	0	0	0	0	0
Undist. Budget							0	0	0
Sub Total	622	2,718	-2,096	173,851	174,065	-214	181,722	181,722	0
Contingency							6,333	6,333	0
Total	622	2,718	-2,096	173,851	174,065	-214	188,055	188,055	0



Cost by Organization

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	Current Period			Cumulative to Date			At Completion		
DEC 2006 MONTH-END	Budgeted	Actual	Cost	Budgeted	Actual	Cost	Budgeted	Latest	Variance
By Institution	Cost	Cost	Variance	Cost	Cost	Variance		Estimate	
(1)	(2)	(4)	(6)	(7)	(9)	(11)	(12)	(13)	(14)
DG *** GSFC	43	79	-36	20,884	20,360	524	21,489	21,489	0
DH *** HEPL	110	83	26	10,625	10,187	439	12,029	12,029	0
DL *** SLAC	313	2,247	-1,934	103,512	103,621	-110	107,311	107,311	0
DN *** NRL	88	216	-129	32,159	33,642	-1,483	33,311	33,311	0
DO *** Financial Plan Transfer/Sub Out	0	0	0	59	59	0	59	59	0
DS *** SSU	40	63	-23	3,421	3,186	235	3,937	3,937	0
DT *** Texas A&M	0	0	0	15	15	0	15	15	0
DU *** UCSC	21	24	-3	2,746	2,650	96	3,034	3,034	0
DW *** UW	8	5	3	429	344	85	538	538	0
Gen. and Admin.	0	0	0	0	0	0	0	0	0
Undist. Budget							0	0	0
Sub Total	622	2,718	-2,096	173,851	174,065	-214	181,722	181,722	0
Management Resrv.							6,333	6,333	0
Total	622	2,718	-2,096	173,851	174,065	-214	188,055	188,055	0

FTE Report (DOE/NASA-funded only)

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