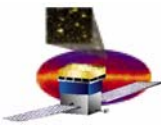


GLAST Large Area Telescope:

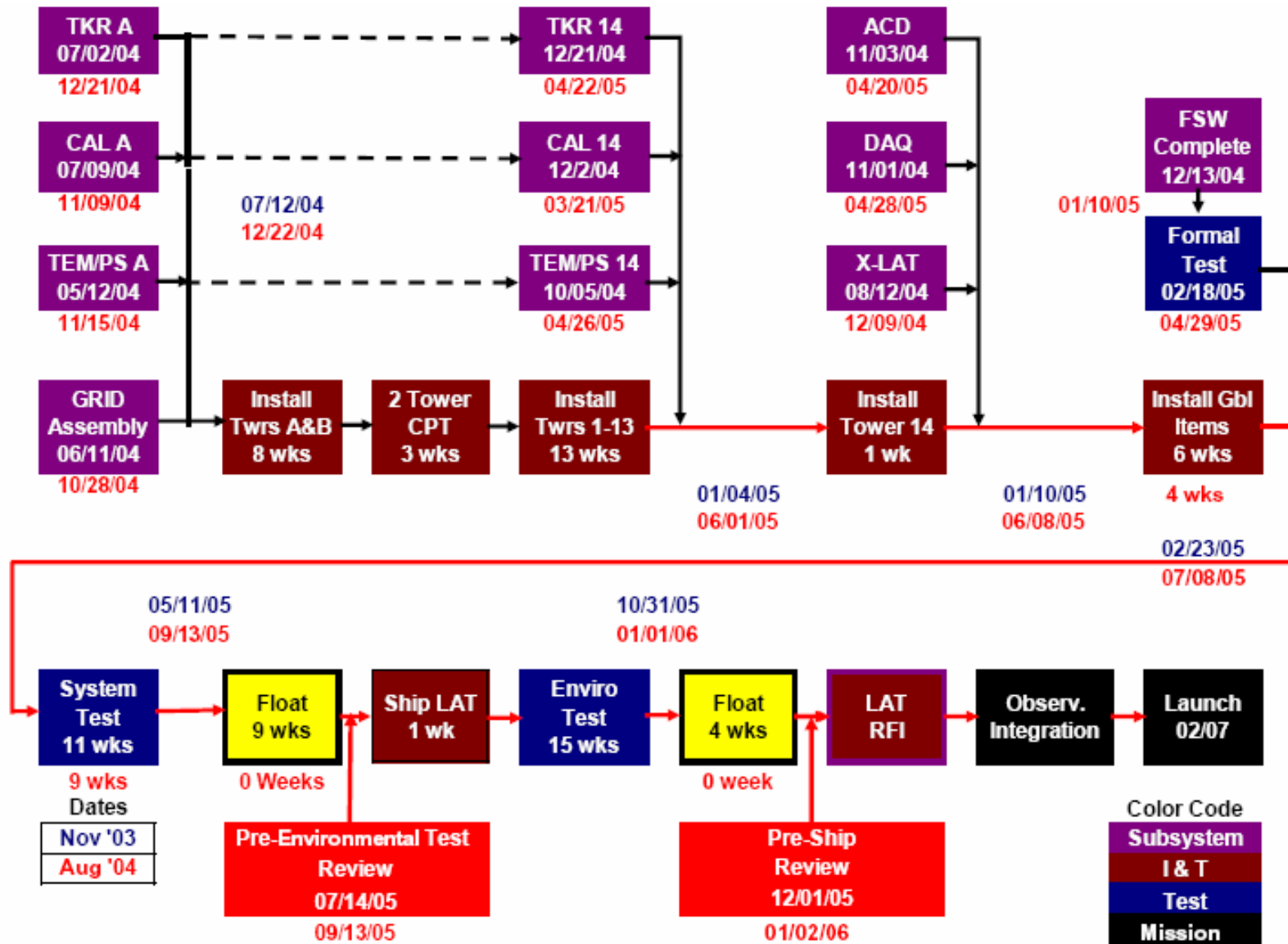
Project Status Overview

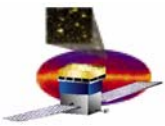
Lowell A. Klaisner
Stanford Linear Accelerator Center
Project Manager

Klaisner@slac.stanford.edu
650-926-2726

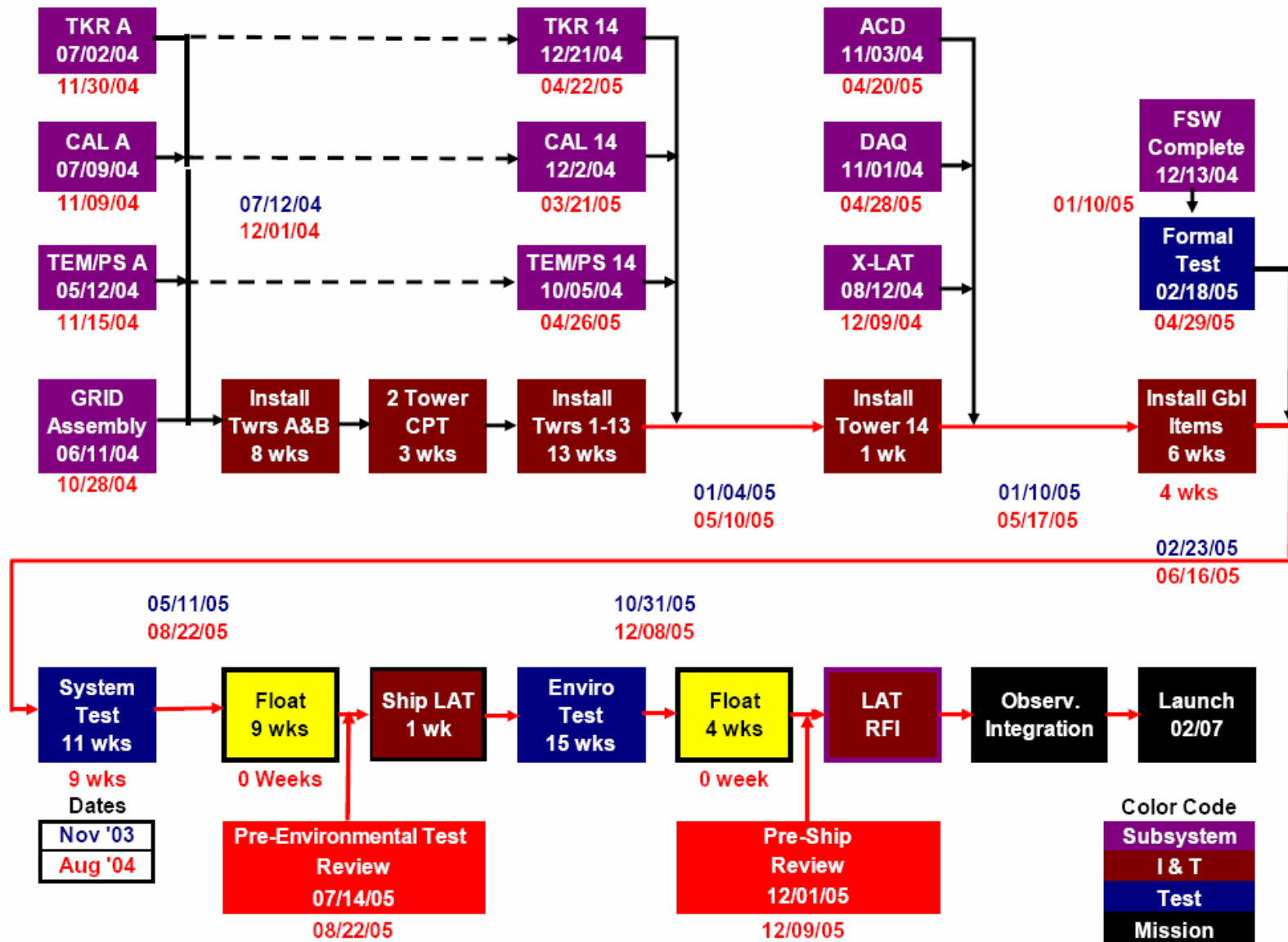


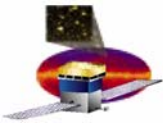
August PMCS Schedule





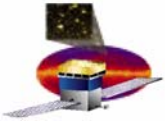
LAT Schedule – TKR Current Schedule



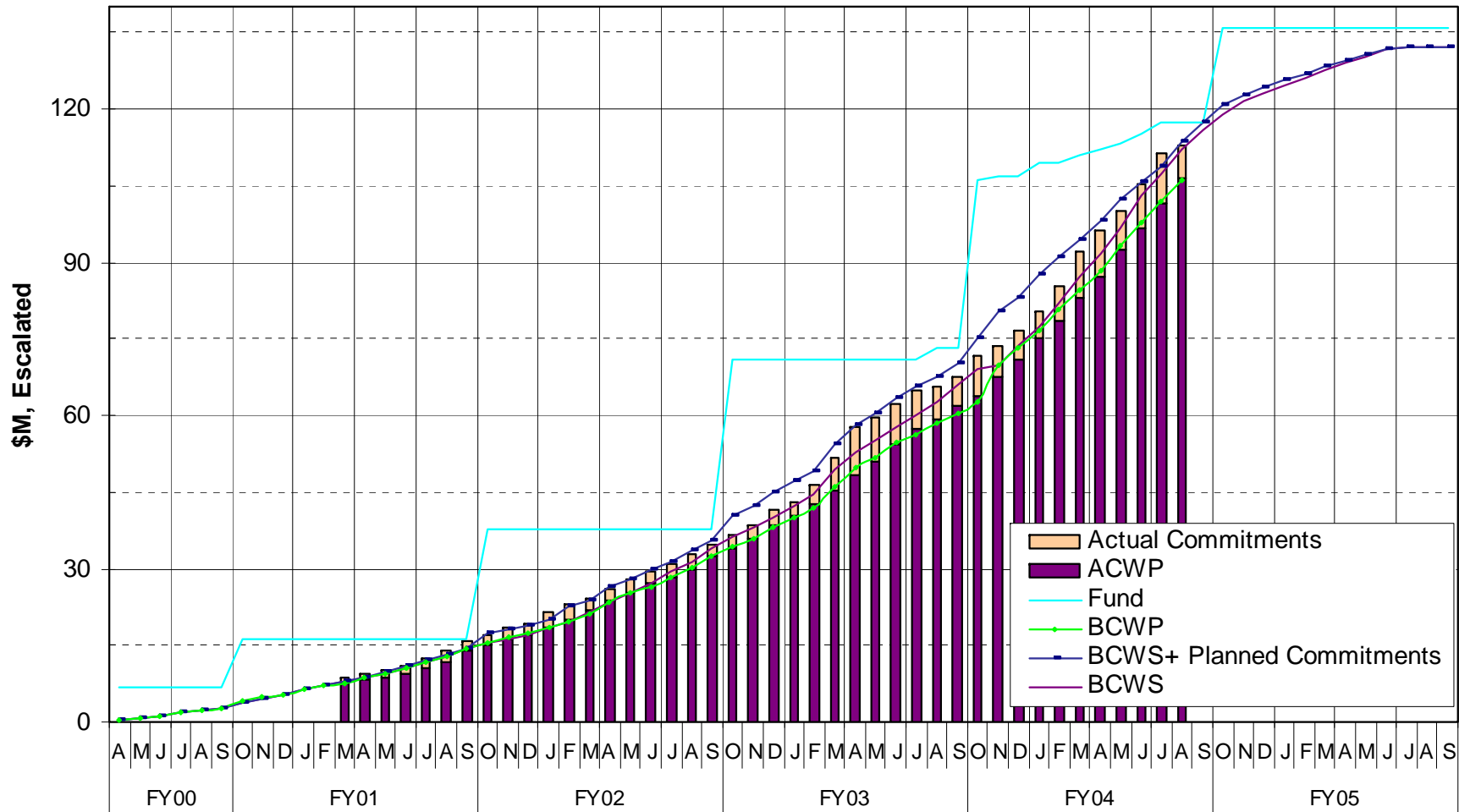


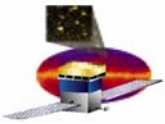
Level 1 & 2 Milestones

Activity ID	Activity Description	Baseline Finish	Bsln Var	Early Finish	Timeline											
					FY01	FY02	FY03	FY04	FY05	FY06						
DOE/NASA Joint Oversight Group (Level 1)																
1M1P000000	DOE Critical Decision (CD) 0 Approval	06/25/01A	0	06/25/01A	▼											
1M1P000010	CD-1 Approval	07/23/02A	0	07/23/02A			▼									
1M1P000020	CD-2 Approval	11/08/02A	0	11/08/02A				▼								
1M1P000030	CD-3 Approval	09/03/03A	0	09/03/03A					▼							
1M1P000060	Flight GRID Complete	09/15/04*	-14	10/05/04							▼					
1M1P000040	CD-4 Approval	03/15/06*	0	03/15/06*												▼
DOE/NASA Federal Project Managers (Level 2)																
1M1BF00000	Launch Balloon Flight	08/01/01A	0	08/01/01A	▼											
1M1000100	Instrument Preliminary Design Review	01/08/02A	0	01/08/02A			▼									
1M1000110	I-CDR (Critical Design Review)	05/16/03A	0	05/16/03A					▼							
1M1000740	Start LAT Integration	08/24/04*	-82	12/21/04								▼				
1M1000700	Pre Environmental Testing Review	07/14/05*	-42	09/13/05											▼	
1M1000120	PSR-(Instrument Pre-Ship Review)	12/01/05*	0	12/01/05*												▼
Run Date: 09/24/04 07:54					GLAST LAT PROJECT					LT-T1: Level 1 && 2 Milestones					Sheet 1	
Data Date: 09/01/04					Level 1&&2 Milestones					FL-T1: Level 1 && 2 Milestones						
© Primavera Systems, Inc.																

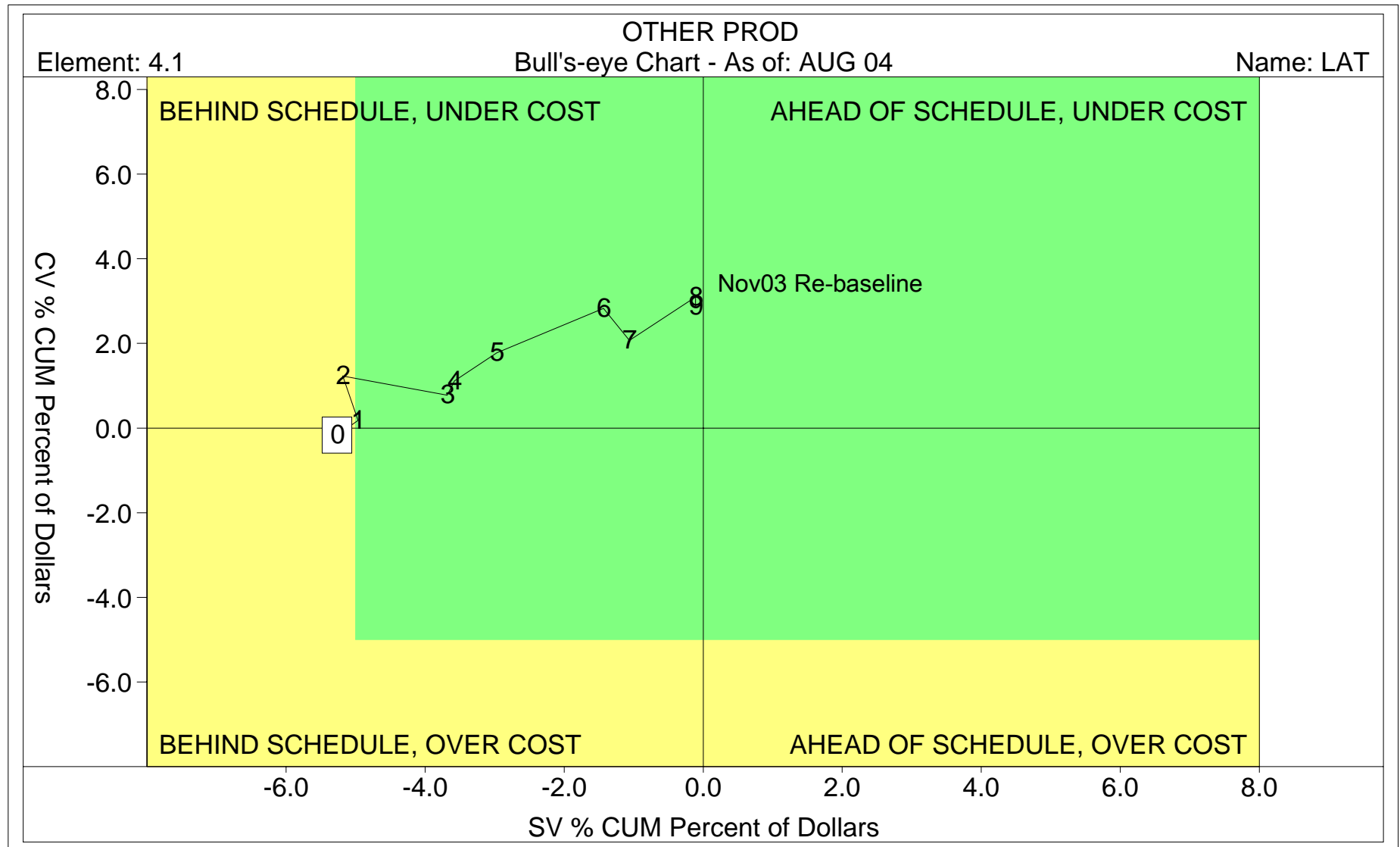


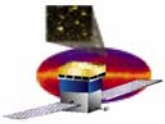
Budget, Cost, Funding, Performance



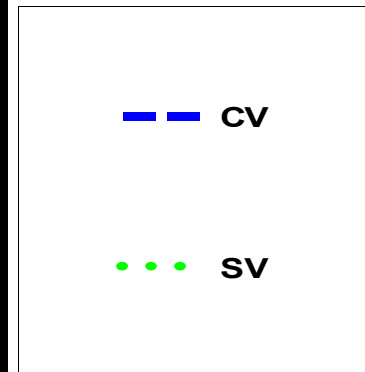
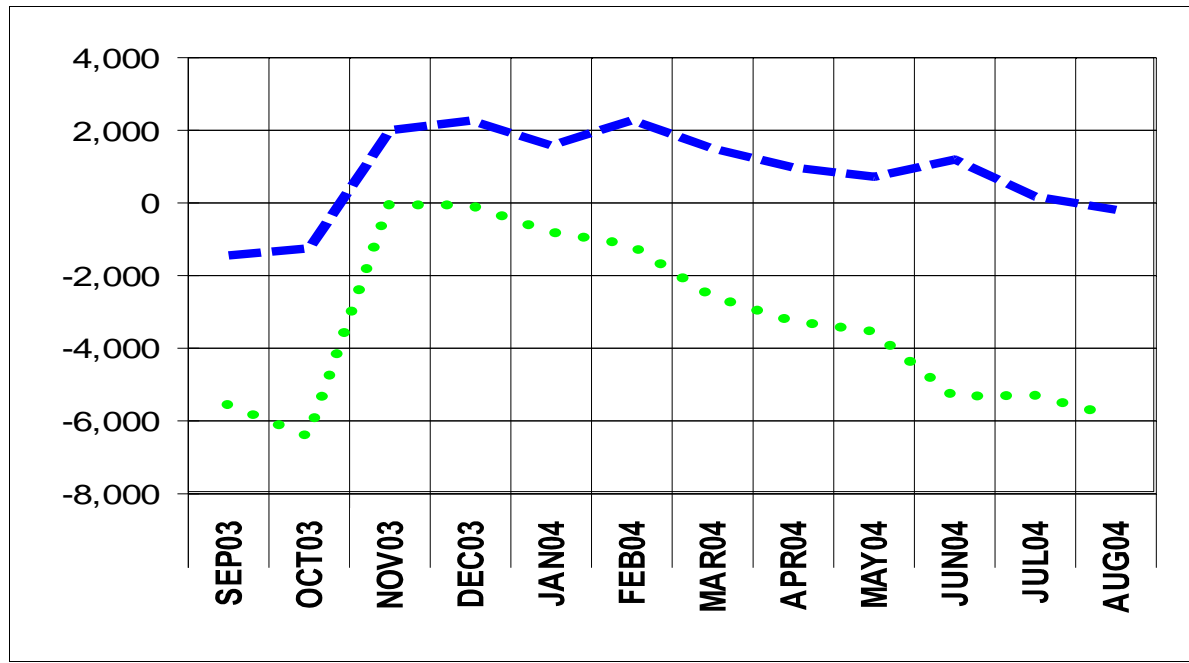


Variance Analysis





CV and SV Chart



	SEP03	OCT03	NOV03	DEC03	JAN04	FEB04	MAR04	APR04	MAY04	JUN04	JUL04	AUG04
BCWS	66,122	69,093	69,801	73,433	77,394	81,916	87,277	91,518	96,621	103,131	107,062	111,988
BCWP	60,548	62,648	69,724	73,353	76,574	80,742	84,687	88,243	93,063	97,784	101,746	106,092
ACWP	61,990	63,894	67,721	71,081	74,989	78,460	83,184	87,264	92,340	96,584	101,567	106,275
CV	-1,443	-1,246	2,003	2,271	1,585	2,281	1,503	979	723	1,199	179	-183
SV	-5,574	-6,445	-76	-80	-820	-1,175	-2,590	-3,274	-3,558	-5,348	-5,316	-5,895



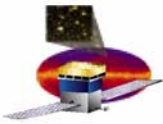
CPR Level 3

Total project schedule variance

Cumulative Variance > +/-10%
(will be reported to DOE/NASA)

Notable current period variances

Cost Performance Report - Work Breakdown Structure													
Contractor: Location:						Contract Type/No:			Project Name/No: LAT		Report Period: 7/31/2004 8/31/2004		
CAPW[3] Item (1)	Current Period					Cumulative to Date					At Completion		
	Budgeted Cost		Actual Cost	Variance		Budgeted Cost		Actual Cost	Variance		Budgeted	Latest Revised Estimate	Variance
	Work Scheduled	Work Performed	Work Performed	Schedule	Cost	Work Scheduled	Work Performed	Work Performed	Schedule	Cost			
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
4.1.1 INSTRUMENT MANAGEMENT	772	771	319	0	452	13,510	13,510	13,480	0	29	16,911	16,911	0
4.1.2 SYSTEM ENGINEERING	192	192	371	0	-179	5,475	5,475	5,190	0	285	7,047	7,047	0
4.1.4 TRACKER	624	543	480	-81	63	14,761	14,045	13,808	-716	237	16,573	16,573	0
4.1.5 CALORIMETER	646	424	540	-222	-116	19,213	17,451	17,338	-1,762	113	22,022	22,022	0
4.1.6 ANTICOINCIDENCE DETECTOR	531	679	350	148	330	14,568	14,170	14,305	-398	-135	15,595	15,595	0
4.1.7 ELECTRONICS	1,092	803	1,530	-289	-727	20,048	17,936	19,296	-2,112	-1,360	22,055	22,055	0
4.1.8 MECHANICAL SYSTEMS	722	618	574	-104	44	11,440	10,936	10,869	-504	67	14,179	14,179	0
4.1.9 INTEGRATION & TEST	129	102	279	-26	-177	4,977	4,598	4,643	-379	-45	7,764	7,764	0
4.1.A PERFORMANCE AND SAFETY ASSURANCE	123	123	144	0	-21	2,206	2,206	2,088	0	118	2,935	2,935	0
4.1.B LAT INSTRUMENT SCIENCE OPERATIONS CENTER	4	4	11	0	-8	292	292	293	0	0	328	328	0
4.1.C EDUCATION AND PUBLIC OUTREACH	74	69	45	-5	25	1,913	1,889	1,542	-24	346	2,448	2,448	0
4.1.D SCIENCE ANALYSIS SOFTWARE	18	18	66	0	-48	2,261	2,261	2,098	0	162	3,020	3,020	0
4.1.E SUBORBITAL FLIGHT TEST	0	0	0	0	0	1,325	1,325	1,325	0	0	1,325	1,325	0
Gen. and Admin.	0	0	0	0	0	0	0	0	0	0	0	0	0
Undist. Budget											0	0	0
Sub Total	4,926	4,346	4,708	-579	-362	111,988	106,092	106,275	-5,895	-183	132,202	132,202	0
Contingency											3,823	3,823	0
Total	4,926	4,346	4,708	-579	-362	111,988	106,092	106,275	-5,895	-183	136,025	136,025	0



Performance Analysis

	WBS	Description	BAC	BCWS	BCWP	ACWP	SV \$	CV \$	%BCWS	%BCWF	%ACWF	SPI	CPI	SPI	CPI	Cpi_Fcst	CpiSpi_Fcst
1	4.1	LAT	132,202	111,988	106,092	106,275	-5,895	-183	84.71	80.25	80.39	↔	↓	0.947	0.998	132,430	133,883
2	4.1.1	Instr Mgmt	16,911	13,510	13,510	13,480	0	29	79.89	79.89	79.71	↔	↑	1.000	1.002	16,874	16,874
3	4.1.2	System Engr	7,047	5,475	5,475	5,190	0	285	77.68	77.68	73.64	↔	↓	1.000	1.055	6,680	6,680
4	4.1.4	Tracker	16,573	14,761	14,045	13,808	-716	237	89.06	84.74	83.31	↔	↑	0.951	1.017	16,294	16,421
5	4.1.5	Calorimeter	22,022	19,213	17,451	17,338	-1,762	113	87.25	79.25	78.73	↓	↓	0.908	1.007	21,879	22,338
6	4.1.6	ACD	15,595	14,568	14,170	14,305	-398	-135	93.41	90.86	91.73	↑	↑	0.973	0.991	15,744	15,785
7	4.1.7	Electronics	22,055	20,048	17,936	19,295	-2,112	-1,360	90.90	81.32	87.49	↔	↓	0.895	0.930	23,727	24,249
8	4.1.8	Mechanical	14,179	11,440	10,936	10,869	-504	67	80.68	77.13	76.66	↓	↑	0.956	1.006	14,092	14,241
9	4.1.9	I&T	7,764	4,977	4,598	4,643	-379	-45	64.10	59.22	59.80	↔	↓	0.924	0.990	7,840	8,104
10	4.1.A	PSA	2,935	2,206	2,206	2,088	0	118	75.17	75.17	71.15	↔	↓	1.000	1.056	2,778	2,778
11	4.1.B	ISOC	328	292	292	293	0	0	89.11	89.11	89.14	↔	↓	1.000	1.000	328	328
12	4.1.C	EPO	2,448	1,913	1,889	1,542	-24	346	78.13	77.14	62.99	↓	↔	0.987	1.225	1,999	2,005
13	4.1.D	SAS	3,019	2,261	2,261	2,098	0	162	74.86	74.86	69.49	↔	↓	1.000	1.077	2,803	2,803
14	4.1.E	Balloon Flight	1,325	1,325	1,325	1,325	0	0	100.00	100.00	99.98	↔	↔	1.000	1.000	1,325	1,325

LEGEND

BAC: Budget At Complete

BCWS: Budgeted Cost of Work Scheduled (to date)

BCWP: Budgeted Cost of Work Performed (to date)

ACWP: Actual Cost of Work Performed (to date)

SV \$: Schedule Variance = BCWP - BCWS

CV \$: Cost Variance = BCWP - ACWP

SPI: Schedule Performance Index = BCWP/BCWS

CPI: Cost Performance Index = BCWP/ACWP

% BCWS: Percent Scheduled = BCWS/BAC

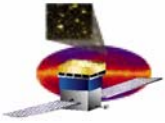
% BCWP: Percent Complete = BCWP/BAC

% ACWP: Percent Spent = ACWP/BAC

Cpi_Fcst: CPI (to date) EAC Forecast = BAC / CPI

CpiSpi_Fcst: Combination CPI and SPI EAC Forecast = ACWP + (BAC - BCWP) / (CPI * SPI)

CPI and SPI Change Thresholds	
■	Worse than 0.85
■	Between 0.85 and 0.95
■	Between 0.95 and 1.10
■	Better than 1.10



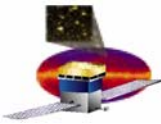
August 04 Status

Total Project Budget: \$132.2M

Actual cost through Aug. 04: \$106.3M

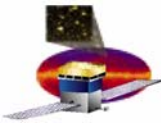
Cost of remaining work: \$26.1M

Contingency: \$3.8M
(as % of remaining work): (15%)



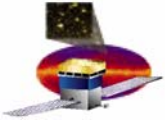
History of LAT Baseline Changes

WBS	Item	LAT Project Baseline					Baseline Change	
		Baseline May-02	CDR/CD-3 Mar-03	Rebaseline Nov-03	Feb-04	Current Aug-04	Rebaseline to Aug-04	
4.1	LAT Budget at Completion	\$99,973	\$107,462	\$119,504	\$124,383	\$132,202	\$12,698	12.7%
4.1.1	Instrument Management	11,602	15,357	15,502	15,945	16,911	1,409	12.1%
4.1.2	System Engineering	4,647	6,453	6,588	6,601	7,047	459	9.9%
4.1.4	Tracker	9,877	10,915	13,595	14,698	16,573	2,979	30.2%
4.1.5	Calorimeter	17,348	17,830	22,648	22,103	22,022	(627)	-3.6%
4.1.6	Anticoincidence Detector	10,280	11,557	13,870	14,022	15,595	1,725	16.8%
4.1.7	Electronics, Data Acquisition, Flight Software	15,738	16,672	18,733	20,350	22,055	3,323	21.1%
4.1.8	Mechanical Systems	11,850	10,373	13,384	13,478	14,179	795	6.7%
4.1.9	Integration & Test	6,654	6,588	6,384	7,373	7,764	1,380	20.7%
4.1.A	Performance & Safety Assurance	2,180	1,607	1,486	2,469	2,935	1,449	66.5%
4.1.B	Instrument Science Operations Center	2,552	2,512	326	328	328	3	0.1%
4.1.C	Education & Public Outreach	2,598	2,684	2,448	2,448	2,448	(0)	0.0%
4.1.D	Science Analysis Software	3,328	3,595	3,220	3,243	3,019	(200)	-6.0%
4.1.E	Suborbital Flight Test	1,321	1,321	1,321	1,325	1,325	4	0.3%
4.1	Budget at Completion	\$99,973	\$107,462	\$119,504	\$124,383	\$132,202	\$12,698	12.7%
	NASA	67,818	72,577	80,447	84,771	90,842	10,395	15.3%
	DOE	31,156	33,499	37,863	38,418	40,730	2,867	9.2%
	Japan	1,000	1,387	1,194	1,194	630	(564)	-56.4%
4.1	Contingency	\$21,266	\$14,251	\$14,345	\$12,447	\$3,823	(\$10,522)	-49.5%
	NASA	15,422	10,749	10,208	8,865	2,553	(7,655)	-49.6%
	DOE	5,844	3,501	4,137	3,582	1,270	(2,867)	-49.1%
	Japan	0	0	0	0	0	0	0.0%
	Contingency as % of Cost to Go	29%	24%	29%	29%	15%		
4.1	Total Estimated Cost	\$121,240	\$121,713	\$133,849	\$136,830	\$136,025	\$2,176	1.8%
	NASA	83,240	83,326	90,655	93,636	93,395	2,740	3.3%
	DOE	37,000	37,000	42,000	42,000	42,000	0	0.0%
	Japan	1,000	1,387	1,194	1,194	630	(564)	-56.4%

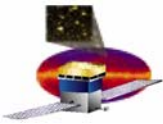


History of LAT Baseline Changes w/ liens

WBS	Item						Baseline Change including liens	
		Rebaseline Nov-03	Feb-04	Current Aug-04	Liens	Current w / liens		
4.1	LAT Budget at Completion	\$119,504	\$124,383	\$132,202	\$4,579	\$136,781	\$17,277	14.5%
4.1.1	Instrument Management	15,502	15,945	16,911		16,911	1,409	9.1%
4.1.2	System Engineering	6,588	6,601	7,047	297	7,344	756	11.5%
4.1.4	Tracker	13,595	14,698	16,573	950	17,523	3,929	28.9%
4.1.5	Calorimeter	22,648	22,103	22,022		22,022	(627)	-2.8%
4.1.6	Anticoincidence Detector	13,870	14,022	15,595	789	16,384	2,514	18.1%
4.1.7	Electronics, Data Acquisition, Flight Software	18,733	20,350	22,055	1,641	23,696	4,964	26.5%
4.1.8	Mechanical Systems	13,384	13,478	14,179	202	14,381	997	7.4%
4.1.9	Integration & Test	6,384	7,373	7,764	700	8,464	2,080	32.6%
4.1.A	Performance & Safety Assurance	1,486	2,469	2,935		2,935	1,449	97.5%
4.1.B	Instrument Science Operations Center	326	328	328		328	3	0.8%
4.1.C	Education & Public Outreach	2,448	2,448	2,448		2,448	(0)	0.0%
4.1.D	Science Analysis Software	3,220	3,243	3,019		3,019	(200)	-6.2%
4.1.E	Suborbital Flight Test	1,321	1,325	1,325		1,325	4	0.3%

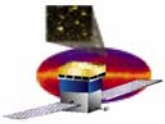


Backup Slides

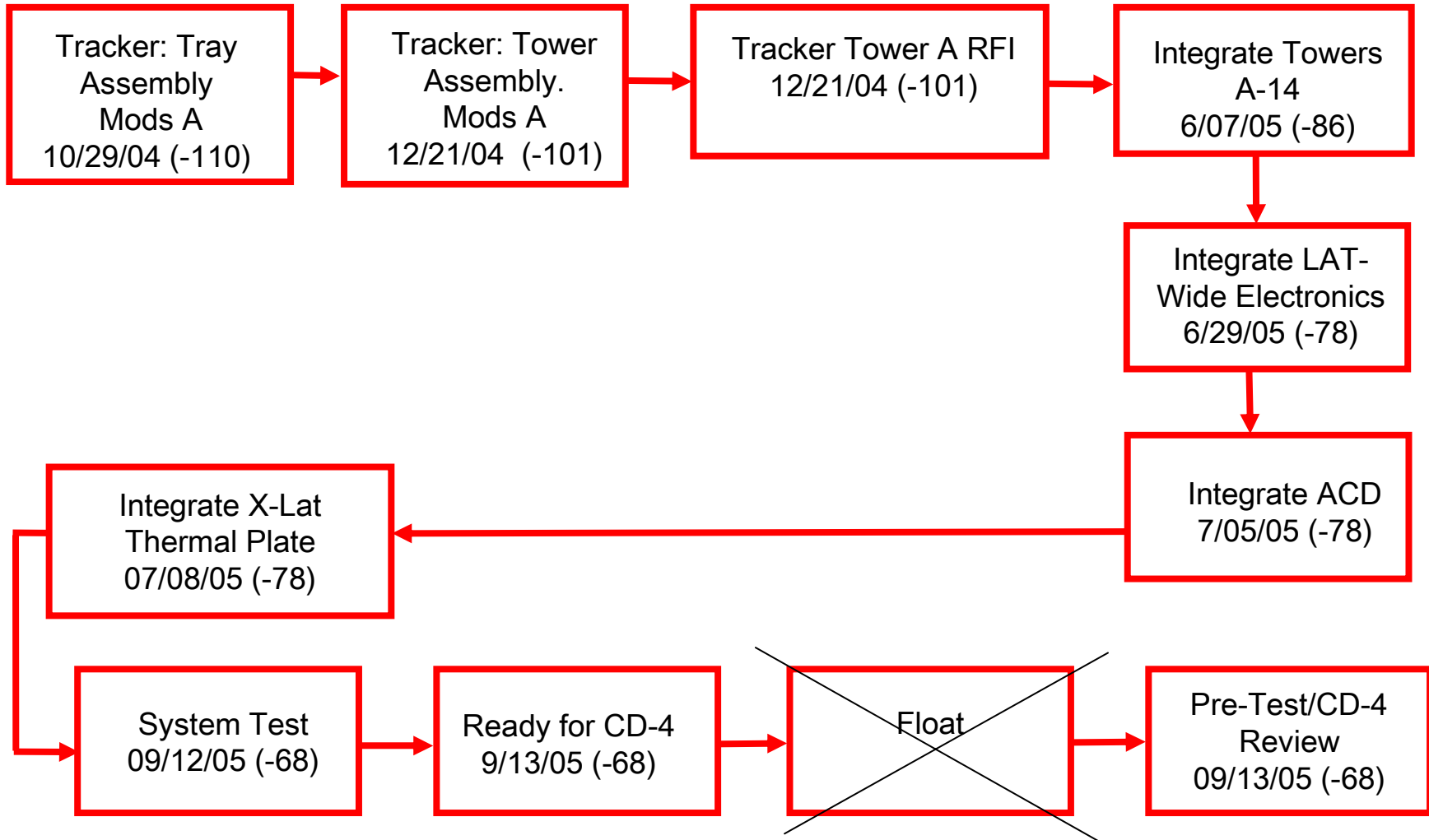


Lien List

Status	Subsystem	Item	Grand Total	
Pending	4.1.2 Sys Eng	Additional engineering, documentation	24	
		Extend INFN support	222	
		Reduce INFN support	-139	
		Increase Manufacturing Eng. Support	100	
		Increase System Eng. Support	90	
	4.1.2 Sys Eng Total			297
	4.1.4 Tracker	Add'l Engineering/Design Support (amount TBD)	160	
		Aluminum cores	13	
		Continued TKR manpower increase	553	
		Shipping container	39	
		Tracker MGSE	50	
		Procurement overruns (amount TBD)	135	
	4.1.4 Tracker Total			950
	4.1.6 ACD	EGSE SW support	40	
		FY05 portion of grassroots estimate	226	
		Micrometeoroid shield/thermal blanket	43	
		Reduce efficiency verification test duration	-20	
		Reduce shipping time	-10	
		Schedule delay	514	
	Streamline conformal coating of FREE boards	-4		
	4.1.6 ACD Total			789
	4.1.7 Electronics	Additional EGSE (amount TBD)	500	
		Continued FSW Manpower Increase (amount TBD)	685	
		FSW Labor	291	
PROMs		85		
Test Bed RAD750 CPUs		80		
4.1.7 Electronics Total			1,641	
4.1.8 Mech Sys	Grid fab manpower reduction	-10		
	Lockheed Martin Phase II (FY05 portion)	108		
	Lockheed Martin rate increase	24		
	MLI design & fabrication	80		
4.1.8 Mech Sys Total			202	
4.1.9 I&T	Additional BPUs	36		
	Fly-away instrumentation (amount TBD)			
	Integration start delay	117		
	MGSE engineer/designer (amount TBD)			
	NRL environmental test support	500		
	Pulse generator	5		
	Detailed scheduler (amount TBD)			
	Optical survey stands	10		
IFCT computing	32			
IFCT electrical test support (amount TBD)				
4.1.9 I&T Total			700	
Pending Total			4,579	



Current Critical Path to CD-4

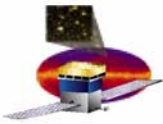


Completion Dates (Baseline Variance)



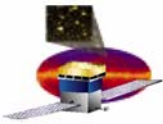
Current Critical Path to CD-4

- **1st critical path: Tracker Flight Tray Mod A Assembly (INFN)**
 - 42 days float to “Ready for CD-4 Review”
 - 22 days float to LAT pre-ship review
 - Also critical path to Module A
- **2nd critical path: Electronics TEM Assembly**
 - 23 days behind 1st critical path
- **3rd critical path: Electronics Flight Cables Module A**
 - 2 days behind 2nd critical path



Level 3 Milestones by Subsystem

AV	Activity ID	ND	Activity Description	Baseline Finish	Bsln Var	Early Finish	FY04				FY05					
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Instrument Project Office (Level 3)																
4.1.1 Instrument Management																
1	1M1001920		Pre-Environmental Test Review	06/07/05	-68	09/13/05										▽
4.1.4 Tracker																
4	1M1001430	9	Delv of TKR EM to SLAC I&T/MGSE	01/02/04	-178	09/15/04	◆				▽					
4	1M1000200	9	Tracker Modules A RFI	07/28/04	-101	12/21/04				◆		▽				
4	1M1000201	9	Tracker Modules B RFI	08/18/04	-91	01/05/05				◆		▽				
4	1M1000220	9	Tracker Modules 1 RFI	08/18/04	-97	01/13/05				◆		▽				
4	1M1000221	9	Tracker Modules 2 RFI	09/08/04	-87	01/20/05				◆		▽				
4	1M1000250	9	Flight Tracker Tower 3 RFI	09/08/04	-90	01/25/05				◆		▽				
4	1M1000251	9	Flight Tracker Tower 4 RFI	10/14/04	-66	01/27/05				◆		▽				
4	1M1000260	9	Flight Tracker Tower 5 RFI	10/14/04	-71	02/03/05				◆		▽				
4	1M1000261	9	Flight Tracker Tower 6 RFI	11/05/04	-55	02/03/05				◆		▽				
4	1M1000270	9	Flight Tracker Tower 7 RFI	11/05/04	-60	02/10/05				◆		▽				
4	1M1000271	9	Flight Tracker Tower 8 RFI	11/24/04	-54	02/22/05				◆		▽				
4	1M1000280	9	Flight Tracker Tower 9 RFI	11/24/04	-61	03/03/05				◆		▽				
4	1M1000281	9	Flight Tracker Tower 10 RFI	12/17/04	-51	03/10/05				◆		▽				
Run Date 09/24/04 10:52							GLAST LAT PROJECT				LT-T3: Level 3 sort by Subsystem (tb)				Sheet 1	
Data Date 09/01/04							Level 3 Milestones				FL-T3: L3 Milestones from Oct03 on					
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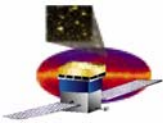
Level 3 Milestones by Subsystem

AV	Activity ID	ND	Activity Description	Baseline Finish	Bsln Var	Early Finish	FY04				FY05					
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
4.1.4 Tracker																
4	1M1000290	9	Flight Tracker Tower 11 RFI	12/17/04	-56	03/17/05										
4	1M1000291	9	Flight Tracker Tower 12 RFI	01/11/05	-61	04/08/05										
4	1M1000300	9	Flight Tracker Tower 13 RFI	01/11/05	-66	04/15/05										
4	1M1000301	9	Flight Tracker Tower 14 RFI	01/25/05	-62	04/22/05										
4	1M1000310	9	Flight Tracker Tower 15 RFI	01/25/05	-79	05/17/05										
4	1M1000311	9	Flight Tracker Tower 16 RFI	02/08/05	-72	05/20/05										
4.1.5 Calorimeter																
5	1M1000210	9	Calorimeter Modules A RFI	07/09/04	-86	11/09/04										
5	1M1500	9	Calorimeter Modules B RFI	07/09/04	-95	11/22/04										
5	1M1000230	9	Calorimeter Modules 1 RFI	07/30/04	-84	11/30/04										
5	1M1510	9	Calorimeter Modules 2 RFI	08/02/04	-91	12/10/04										
5	1M1000400	9	Flight Calorimeter Tower 3 RFI	08/17/04	-84	12/16/04										
5	1M1000390	9	Flight Calorimeter Tower 5 RFI	09/15/04	-67	12/21/04										
5	1M1520	9	Flight Calorimeter Tower 4 RFI	08/17/04	-87	12/21/04										
5	1M1000380	9	Flight Calorimeter Tower 7 RFI	10/11/04	-54	01/05/05										
5	1M1530	9	Flight Calorimeter Tower 6 RFI	09/15/04	-72	01/05/05										

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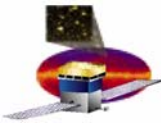
GLAST LAT PROJECT
Level 3 Milestones
Sort by Subsystem

LT-T3: Level 3 sort by Subsystem (tb)
 FL-T3: L3 Milestones from Oct03 on
 Sheet 2



Level 3 Milestones by Subsystem

AV	Activity ID	ND	Activity Description	Baseline Finish	Bsln Var	Early Finish	FY04				FY05					
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
4.1.5 Calorimeter																
5	1M1000370	9	Flight Calorimeter Tower 9 RFI	11/02/04	-55	01/31/05					◆	▽				
5	1M1540	9	Flight Calorimeter Tower 8 RFI	10/11/04	-71	01/31/05					◆	▽				
5	1M1000360	9	Flight Calorimeter Tower 11 RFI	11/16/04	-59	02/18/05					◆	▽				
5	1M1550	9	Flight Calorimeter Tower 10 RFI	11/02/04	-69	02/18/05					◆	▽				
5	1M1000350	9	Flight Calorimeter Tower 13 RFI	12/02/04	-60	03/08/05					◆	▽				
5	1M1560	9	Flight Calorimeter Tower 12 RFI	11/15/04	-71	03/08/05					◆	▽				
5	1M1000340	9	Flight Calorimeter Tower 15 RFI (Spare)	01/06/05	-50	03/21/05					◆	▽				
5	1M1570	9	Flight Calorimeter Tower 14 RFI	12/02/04	-69	03/21/05					◆	▽				
5	1M1580	9	Flight Calorimeter Tower 16 RFI (Spare)	01/06/05	-56	03/29/05					◆	▽				
4.1.6 ACD																
6	1M1001000	9	ACD Test Scripts (from ACD to I&T)	07/01/04	-90	11/08/04				◆	▽					
6	1M1000990	9	ACD Calibration Test Unit at SLAC, Tested & RFI	01/18/05	0	01/18/05					◆	▽				
6	1M1000410	9	ACD Flight Unit at SLAC, Tested/Inspected & RFI	11/03/04	-110	04/20/05					◆		▽			
4.1.7 Electronics																
7	1M76000010	6	3rd G2 Test Stand: Elec to ACD	12/08/03	0	12/08/03A	▼									
7	1M1000920	4	EM2 TEM: Elec to Tracker	01/12/04	-55	03/31/04A	◆	▼								
Run Date 09/24/04 10:52							GLAST LAT PROJECT				LT-T3: Level 3 sort by Subsystem (tb)				Sheet 3	
Data Date 09/01/04							Level 3 Milestones				FL-T3: L3 Milestones from Oct03 on					
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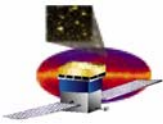
Level 3 Milestones by Subsystem

AV	Activity ID	ND	Activity Description	Baseline Finish	Bsln Var	Early Finish	FY04				FY05					
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
4.1.7 Electronics																
7	1M74000010	4	Updated EGSE System 1: Elec to TKR	12/08/03	-80	04/09/04A	◆		▼							
7	1M76000020	6	G3 Test Stand (test 2 FREE Cards): Elec to ACD	12/15/03	-84	04/22/04A	◆		▼							
7	1M74000020	4	Updated EGSE System 2: Elec to TKR	12/22/03	-82	04/27/04A	◆		▼							
7	1M76000030	6	G3 Test Stand (Fit-like I/F): Elec to ACD	02/20/04	-64	05/20/04A		◆	▼							
7	1M79010		Demo: SI Functionality - Elec to MO	05/28/04*	0	05/28/04A			▼							
7	1M74000030	4	Updated EGSE System 3: Elec to TKR	01/07/04	-104	06/04/04A	◆		▼							
7	1M74000040	4	EGSE System 4: Elec to TKR	01/14/04	-99	06/04/04A	◆		▼							
7	1M74000050	4	EGSE System 5: Elec to TKR	01/22/04	-94	06/04/04A	◆		▼							
7	1M1001870	5	5 EM2 TEM/PS for AFEE brd ass & tst: Elec to CAL	01/15/04	-99	06/07/04A	◆		▼							
7	1M1001900	5	Test Stations (5) for AFEE: Elec to CAL	01/14/04	-100	06/07/04A	◆		▼							
7	1M1001220	5	EM2 TEM/PS/CTS for FMA from Elec to CAL	01/22/04	-101	06/15/04A	◆		▼							
7	1M7941190	9	EGSE TEM/TEM PS/CTS #1 for Bldg 33-Elec to I&T	01/29/04	-104	06/25/04A	◆		▼							
7	1M1001260	5	EM2 TEM/PS/CTS for FMB from Elec to CAL	01/29/04	-128	07/30/04A	◆		▼							
7	1M7941130	9	EGSE TEM/TEM PS/CTS w/ FE Elec #1-Elec to I&T	12/08/03	-158	07/30/04A	◆		▼							
7	1M7941170	9	EGSE TEM/TEM PS/CTS/GASU FE Elec-Elec to I&T	01/14/04	-138	07/30/04A	◆		▼							
7	1M74000060	4	EGSE System 6: Elec to TKR	01/29/04	-138	08/13/04A	◆		▼							

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GLAST LAT PROJECT
Level 3 Milestones
Sort by Subsystem

LT-T3: Level 3 sort by Subsystem (tb)
 FL-T3: L3 Milestones from Oct03 on
 Sheet 4



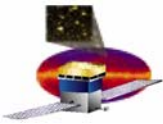
Level 3 Milestones by Subsystem

AV	Activity ID	ND	Activity Description	Baseline Finish	Bsln Var	Early Finish	FY04				FY05					
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
4.1.7 Electronics																
7	1M74000070	4	EGSE System 7: Elec to TKR	02/12/04	-128	08/13/04A		◆		▼						
7	1M74000080	4	EGSE System 8: Elec to TKR	02/12/04	-128	08/13/04A		◆		▼						
7	1M7941150	9	EGSE TEM/TEM PS/CTS w/ FE Elec #2-Elec to I&T	12/22/03	-158	08/13/04A	◆			▼						
7	1M7941160	9	EGSE TEM/TEM PS/CTS w/ FE Elec #3-Elec to I&T	01/07/04	-153	08/13/04A	◆			▼						
7	1M7941420	9	EGSE TEM/TEM PS/CTS #2 for Bldg 33-Elec to I&T	02/05/04	-133	08/13/04A		◆		▼						
7	1M1001600	5	EM2 TEM/PS/CTS for FM1 from Elec to CAL	02/05/04	-141	08/25/04A		◆		▼						
7	1M1001650	5	EM2 TEM/PS/CTS for FM2 from Elec to CAL	02/12/04	-136	08/25/04A		◆		▼						
7	1M1001660	5	EM2 TEM/PS/CTS for FM3 from Elec to CAL	02/27/04	-126	08/25/04A		◆		▼						
7	1M1001680	5	EM2 TEM/PS/CTS for FM4 from Elec to CAL	02/27/04	-126	08/25/04A		◆		▼						
7	1M1001720	5	EM2 TEM/PS/CTS for FM5 from Elec to CAL	02/27/04	-126	08/25/04A		◆		▼						
7	1M1001760	5	EM2 TEM/PS/CTS for FM6 from Elec to CAL	03/05/04	-121	08/25/04A		◆		▼						
7	1M7941180	9	EGSE Development Hrdw/FSW 1st Delivr-Elec to I&T	01/22/04	-154	08/30/04A		◆		▼						
7	1M79020		Demo: Thermal Control & Deadtime - Elec to MO	07/26/04*	-28	09/02/04*			◆	▼						
7	1M79030		Demo: Multi-Tower Config & Filter - Elec to MO	08/27/04*	-4	09/02/04*				▼						
7	1M7941430	9	EGSE TEM/TEM PS/CTS w/ GASU for B33-Elec to I&T	02/05/04	-147	09/02/04*		◆		▼						
7	1M1001770	5	EM2 TEM/PS/CTS for FM7 from Elec to CAL	03/05/04	-135	09/15/04*		◆		▼						

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GLAST LAT PROJECT
Level 3 Milestones
Sort by Subsystem

LT-T3: Level 3 sort by Subsystem (tb)
 FL-T3: L3 Milestones from Oct03 on
 Sheet 5



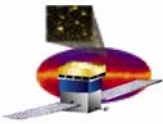
Level 3 Milestones by Subsystem

AV	Activity ID	ND	Activity Description	Baseline Finish	Bsln Var	Early Finish	FY04				FY05					
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
4.1.7 Electronics:																
7	1M1001780	5	EM2 TEM/PS/CTS for FM8 from Elec to CAL	03/05/04	-135	09/15/04*		◆			▽					
7	1M74000090	4	EGSE System 9: Elec to TKR	02/20/04	-145	09/15/04*		◆			▽					
7	1M74000100	4	EGSE System 10: Elec to TKR	02/20/04	-145	09/15/04*		◆			▽					
7	1M79040		Demo: EPO Boot & Commanding - Elec to MO	09/24/04*	0	09/24/04					◆					
7	1M79050		Demo: Inst. Calibration - Elec to MO	10/29/04*	0	10/29/04					▽					
7	1M79002010	9	Flight TEM PS Assy A: Elec to I&T	05/12/04	-121	11/02/04				◆		▽				
7	1M79002020	9	Flight TEM PS Assy B: Elec to I&T	05/19/04	-121	11/09/04				◆		▽				
7	1M79001010	9	Flight TEM Assy A: Elec to I&T	06/07/04	-110	11/10/04				◆		▽				
7	1M79001020	9	Flight TEM Assy B: Elec to I&T	06/14/04	-105	11/10/04				◆		▽				
7	1M79003010	9	Flight Cables Assy A: Elec to I&T	05/10/04	-132	11/15/04				◆		▽				
7	1M79003020	9	Flight Cables Assy B: Elec to I&T	05/10/04	-132	11/15/04				◆		▽				
7	1M79003030	9	Flight Cables Assy 1: Elec to I&T	06/10/04	-110	11/15/04				◆		▽				
7	1M79003040	9	Flight Cables Assy 2: Elec to I&T	06/10/04	-110	11/15/04				◆		▽				
7	1M79003050	9	Flight Cables Assy 3: Elec to I&T	06/10/04	-110	11/15/04				◆		▽				
7	1M79003060	9	Flight Cables Assy 4: Elec to I&T	06/10/04	-110	11/15/04				◆		▽				
7	1M79003070	9	Flight Cables Assy 5: Elec to I&T	06/28/04	-98	11/15/04				◆		▽				

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GLAST LAT PROJECT
Level 3 Milestones
Sort by Subsystem

LT-T3: Level 3 sort by Subsystem (tb)
 FL-T3: L3 Milestones from Oct03 on
 Sheet 6



Level 3 Milestones by Subsystem

AV	Activity ID	ND	Activity Description	Baseline Finish	Bsln Var	Early Finish	FY04				FY05					
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
4.1.7 Electronics																
7	1M79003080	9	Flight Cables Assy 6: Elec to I&T	06/28/04	-98	11/15/04				◆		▽				
7	1M79003090	9	Flight Cables Assy 7: Elec to I&T	06/28/04	-98	11/15/04				◆		▽				
7	1M79003100	9	Flight Cables Assy 8: Elec to I&T	06/28/04	-98	11/15/04				◆		▽				
7	1M79003110	9	Flight Cables Assy 9: Elec to I&T	06/28/04	-98	11/15/04				◆		▽				
7	1M79003120	9	Flight Cables Assy 10: Elec to I&T	06/28/04	-98	11/15/04				◆		▽				
7	1M79003130	9	Flight Cables Assy 11: Elec to I&T	07/15/04	-90	11/19/04				◆		▽				
7	1M79003140	9	Flight Cables Assy 12: Elec to I&T	07/15/04	-90	11/19/04				◆		▽				
7	1M79003150	9	Flight Cables Assy 13: Elec to I&T	07/15/04	-90	11/19/04				◆		▽				
7	1M79003160	9	Flight Cables Assy 14: Elec to I&T	07/15/04	-90	11/19/04				◆		▽				
7	1M79003170	9	Flight Cables Assy 15: Elec to I&T	07/15/04	-90	11/19/04				◆		▽				
7	1M79003180	9	Flight Cables Assy 16: Elec to I&T	07/15/04	-90	11/19/04				◆		▽				
7	1M79060		Demo: Full 1553 & Full Towers Cmnds - Elec to MO	12/03/04*	0	12/03/04						▽	◆			
7	1M79070		Demo: FU Build - Elec to MO	12/17/04*	0	12/17/04						▽	◆			
7	1M79002030	9	Flight TEM PS Assy 1: Elec to I&T	07/01/04	-121	12/23/04				◆		▽				
7	1M79002040	9	Flight TEM PS Assy 2: Elec to I&T	07/09/04	-121	01/07/05				◆		▽				
7	1M79002050	9	Flight TEM PS Assy 3: Elec to I&T	07/16/04	-121	01/14/05				◆		▽				

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GLAST LAT PROJECT
Level 3 Milestones
Sort by Subsystem

LT-T3: Level 3 sort by Subsystem (tb)
 FL-T3: L3 Milestones from Oct03 on
 Sheet 7



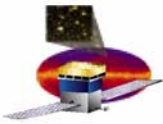
Level 3 Milestones by Subsystem

AV	Activity ID	ND	Activity Description	Baseline Finish	Bsln Var	Early Finish	FY04				FY05					
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
4.1.7 Electronics																
7	1M79001030	9	Flight TEM Assy 1: Elec to I&T	08/03/04	-114	01/24/05										
7	1M79002060	9	Flight TEM PS Assy 4: Elec to I&T	07/23/04	-121	01/24/05										
7	1M7941110	9	Flight Harness-Elec to I&T	10/20/04	-63	01/28/05										
7	1M79001040	9	Flight TEM Assy 2: Elec to I&T	08/10/04	-114	01/31/05										
7	1M79002070	9	Flight TEM PS Assy 5: Elec to I&T	07/30/04	-121	01/31/05										
7	1M79001050	9	Flight TEM Assy 3: Elec to I&T	08/17/04	-114	02/07/05										
7	1M79002080	9	Flight TEM PS Assy 6: Elec to I&T	08/06/04	-121	02/07/05										
7	1M79001060	9	Flight TEM Assy 4: Elec to I&T	08/24/04	-114	02/14/05										
7	1M79002090	9	Flight TEM PS Assy 7: Elec to I&T	08/13/04	-121	02/14/05										
7	1M79001070	9	Flight TEM Assy 5: Elec to I&T	08/31/04	-114	02/22/05										
7	1M79002100	9	Flight TEM PS Assy 8: Elec to I&T	08/20/04	-121	02/22/05										
7	1M79002110	9	Flight TEM PS Assy 9: Elec to I&T	08/25/04	-121	02/25/05										
7	1M79001080	9	Flight TEM Assy 6: Elec to I&T	09/08/04	-114	03/01/05										
7	1M79002120	9	Flight TEM PS Assy 10: Elec to I&T	08/30/04	-121	03/02/05										
7	1M79002130	9	Flight TEM PS Assy 11: Elec to I&T	09/02/04	-121	03/07/05										
7	1M79001090	9	Flight TEM Assy 7: Elec to I&T	09/15/04	-114	03/08/05										

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Level 3 Milestones
Sort by Subsystem

LT-T3: Level 3 sort by Subsystem (tb)
 FL-T3: L3 Milestones from Oct03 on
 Sheet 8



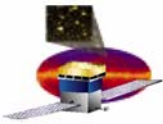
Level 3 Milestones by Subsystem

AV	Activity ID	ND	Activity Description	Baseline Finish	Bsln Var	Early Finish	FY04				FY05					
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
4.1.7 Electronics																
7	1M79002140	9	Flight TEM PS Assy 12: Elec to I&T	09/08/04	-121	03/10/05										
7	1M79001100	9	Flight TEM Assy 8: Elec to I&T	09/22/04	-114	03/15/05										
7	1M79002150	9	Flight TEM PS Assy 13: Elec to I&T	09/13/04	-121	03/15/05										
7	1M79002160	9	Flight TEM PS Assy 14: Elec to I&T	09/16/04	-121	03/18/05										
7	1M79001110	9	Flight TEM Assy 9: Elec to I&T	09/29/04	-114	03/22/05										
7	1M79002170	9	Flight TEM PS Assy 15: Elec to I&T	09/21/04	-121	03/23/05										
7	1M79002180	9	Flight TEM PS Assy 16: Elec to I&T	09/24/04	-121	03/28/05										
7	1M79001120	9	Flight TEM Assy 10: Elec to I&T	10/06/04	-114	03/29/05										
7	1M7941440	9	Final EGSE incl S/C Sim, FSW-Elec to I&T	12/13/04	-68	03/29/05										
7	1M79001130	9	Flight TEM Assy 11: Elec to I&T	10/13/04	-114	04/05/05										
7	1M79001140	9	Flight TEM Assy 12: Elec to I&T	10/20/04	-114	04/12/05										
7	1M7942000	9	Flight PDU Box-Elec to I&T	10/13/04	-119	04/12/05										
7	1M79001150	9	Flight TEM Assy 13: Elec to I&T	10/27/04	-114	04/19/05										
7	1M7941070	9	Flight GASU Box-Elec to I&T	11/01/04*	-112	04/20/05										
7	1M79001160	9	Flight TEM Assy 14: Elec to I&T	11/03/04	-114	04/26/05										
7	1M7941080	9	Flight SIU-Elec to I&T	10/13/04	-131	04/28/05										

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 Data Date 09/01/04
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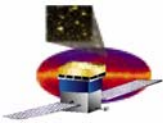
GLAST LAT PROJECT
Level 3 Milestones
Sort by Subsystem

LT-T3: Level 3 sort by Subsystem (tb)
 FL-T3: L3 Milestones from Oct03 on
 Sheet 9



Level 3 Milestones by Subsystem

AV	Activity ID	ND	Activity Description	Baseline Finish	Bsln Var	Early Finish	FY04				FY05					
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
4.1.7 Electronics																
7	1M7941090	9	Flight Event Processor Units-Elec to I&T	11/01/04	-118	04/28/05					◆			▽		
7	1M79001170	9	Flight TEM Assy 15: Elec to I&T	11/10/04	-114	05/03/05					◆			▽		
7	1M79001180	9	Flight TEM Assy 16: Elec to I&T	11/17/04	-114	05/10/05					◆			▽		
4.1.8 Mechanical																
8	1M1001380	9	Delivery of EM (1X4) Grid to I&T/MSGE	12/19/03	-64	03/31/04A	◆	▼								
8	1M1000240	9	Flight Grid RFI-Mech to I&T	07/22/04	-69	10/28/04					◆		▽			
8	1M941710	9	X-LAT Thermal Plate RFI from Mech to I&T	08/12/04	-82	12/09/04					◆		▽			
8	1M941720	9	Radiators ready for I&T (from Mech to I&T)	03/17/05	-25	04/21/05								◆	▽	
4.1.9 I&T																
9	1M1001520	5	EM CAL Returned to NRL (arrives on dock)	10/16/03	-1	10/17/03A	▼									
9	1M1001790	5	EM2 TEM/PS for FM9 (return FMA) from I&T to CAL	07/23/04	-86	11/23/04					◆		▽			
9	1M1001800	5	EM2 TEM/PS for FM10 (return FMB)from I&T to CAL	07/23/04	-95	12/08/04					◆		▽			
9	1M1001810	5	EM2 TEM/PS for FM11 (return FM1) from I&T to CAL	08/13/04	-84	12/14/04					◆		▽			
9	1M1001820	5	EM2 TEM/PS for FM12 (return FM2) from I&T to CAL	08/16/04	-91	01/03/05					◆		▽			
9	1M1001830	5	EM2 TEM/PS for FM13 (return FM3) from I&T to CAL	08/31/04	-84	01/07/05					◆		▽			
9	1M1001840	5	EM2 TEM/PS for FM14 (return FM4) from I&T to CAL	08/31/04	-87	01/12/05					◆		▽			
Run Date 09/24/04 10:52							GLAST LAT PROJECT				LT-T3: Level 3 sort by Subsystem (tb)				Sheet 10	
Data Date 09/01/04							Level 3 Milestones				FL-T3: L3 Milestones from Oct03 on					
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Level 3 Milestones by Subsystem

AV	Activity ID	ND	Activity Description	Baseline Finish	Bsln Var	Early Finish	FY04				FY05							
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
4.1.9 I&T																		
9	1M1001850	5	EM2 TEM/PS for FM15 (return FM5) from I&T to CAL	09/29/04	-67	01/12/05					◆	▽						
9	1M1001860	5	EM2 TEM/PS for FM16 (return FM6) from I&T to CAL	09/29/04	-72	01/20/05					◆	▽						
9	1M1000130	2	LAT Ready to Ship to NRL for Env Test	06/08/05	-67	09/13/05								◆	▽			
4.1.B ISOC																		
B	1M005480	B	ISOC CDR	03/12/04	-101	08/04/04A		◆		▼								
B	1M1000112	B	Mission Operations Review (L-21mo.)	11/10/04	-78	03/14/05					◆	▽						
B	1M7941270	B	Ground System Interface Test start	11/10/04	-78	03/14/05					◆	▽						
Run Date							09/24/04 10:52		GLAST LAT PROJECT				LT-T3: Level 3 sort by Subsystem (tb)				Sheet 11	
Data Date							09/01/04		Level 3 Milestones				FL-T3: L3 Milestones from Oct03 on					
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