



**Gamma-ray
Large Area Space
Telescope**



GLAST LAT PROJECT

Cost & Schedule Information
for the
GLAST LAT PDR/Baseline Review
January 8-11, 2001

4.1.B Instrument Operations Center
Subsystem Manager – S. Williams

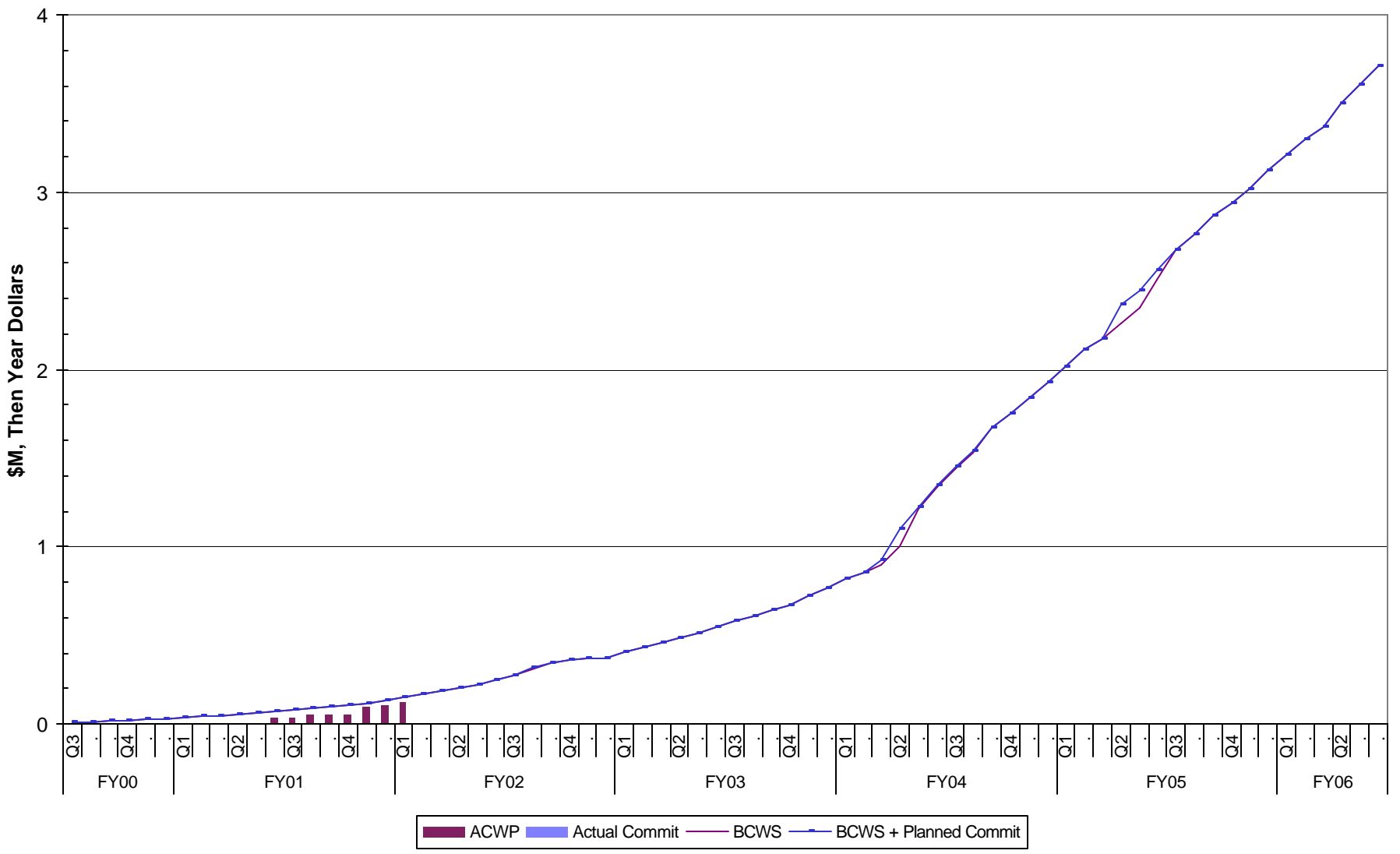


**Gamma-ray
Large Area Space
Telescope**

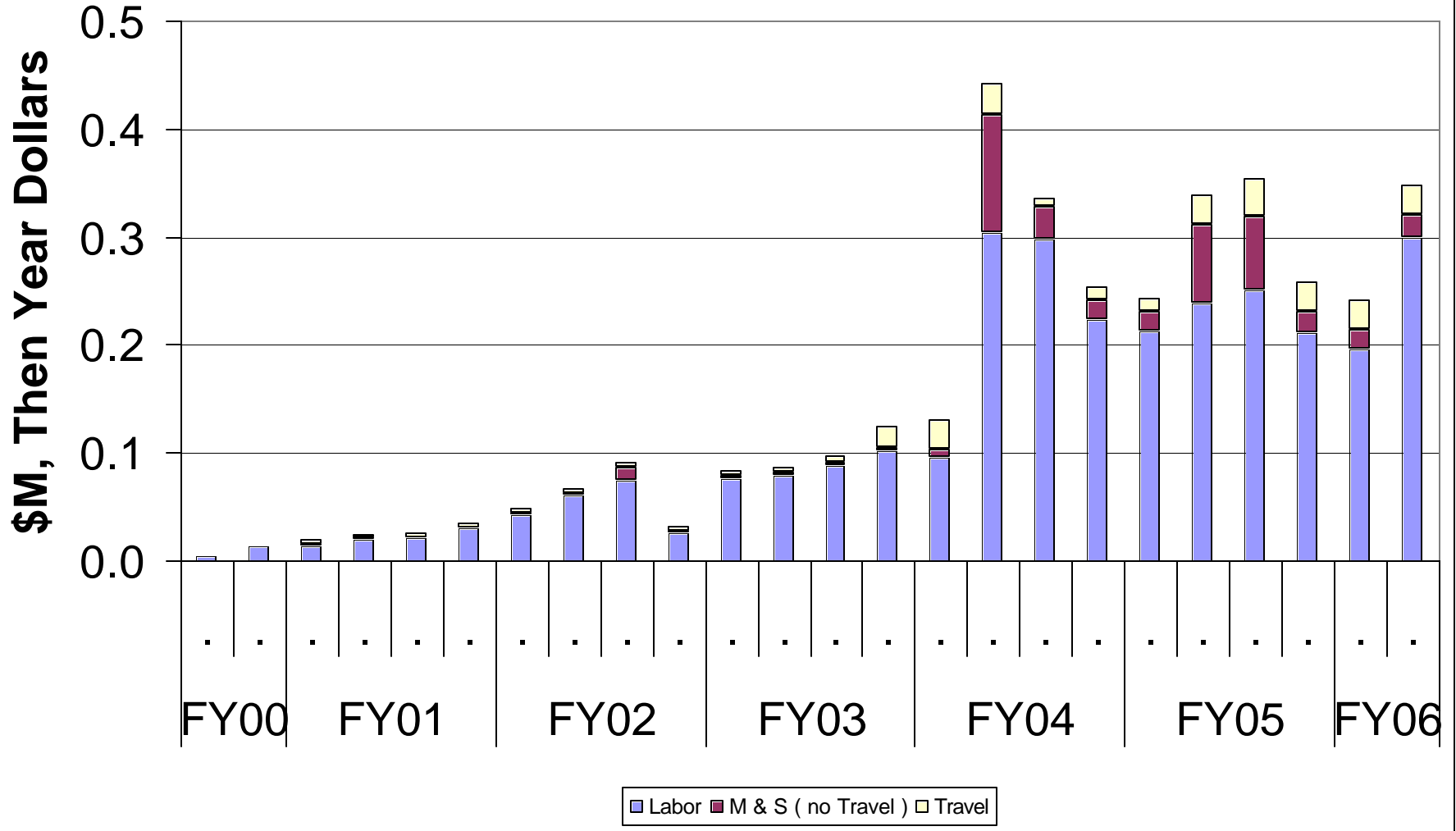


Cost & Commitment Profile

4.1.B Instrument Operation Center Costs and Commitments



4.1.B Instrument Operations Center Cost Type





**Gamma-ray
Large Area Space
Telescope**



Cost Detail @ Work Package Level

Program:	1001	Description:	GLAST LAT Project	Approval:	Program Manager
Run Date:	12/12/01	Status Date:	10/31/01		Functional Manager
					Cost Account Manager

CAPW[4]	OBS	CPN[1]	WP	FY00	FY01	FY02	FY03	FY04	FY05	FY06	Cumulative
4.1.B.1 PROJECT MANAGEMENT											
DH SU-HEPL											
2WCA171 4.1.B.1.1-3 IOC Management: Labor											
		CPN[1] Totals:	PLANNED	0	49	64	42	77	77	34	342
			BUD+COM	0	49	64	42	77	77	34	342
2WCA172 4.1.B.1.3,5 IOC Management: M&S											
		CPN[1] Totals:	PLANNED	0	5	5	13	82	74	39	220
			BUD+COM	0	5	5	13	82	74	39	220
2WCA173 4.1.B.1.4 IOC Management: Travel											
		CPN[1] Totals:	PLANNED	0	14	20	20	21	21	11	107
			BUD+COM	0	14	20	20	21	21	11	107
	OBS Totals:		PLANNED	0	69	88	75	180	173	84	669
			BUD+COM	0	69	88	75	180	173	84	669
CAPW[4] Totals:			PLANNED	0	69	88	75	180	173	84	669
			BUD+COM	0	69	88	75	180	173	84	669
4.1.B.2 PERFORMANCE ASSURANCE											
DH SU-HEPL											
2WCA174 4.1.B.2 IOC: Performance Assurance: Labor											
		CPN[1] Totals:	PLANNED	0	0	23	17	28	37	18	123
			BUD+COM	0	0	23	17	28	37	18	123
	OBS Totals:		PLANNED	0	0	23	17	28	37	18	123
			BUD+COM	0	0	23	17	28	37	18	123
CAPW[4] Totals:			PLANNED	0	0	23	17	28	37	18	123
			BUD+COM	0	0	23	17	28	37	18	123
4.1.B.3 MISSION & OPERATIONS PLANNING											
DH SU-HEPL											
2WCA175 4.1.B.3 IOC: Mission & Operations Plannng: Labor											
		CPN[1] Totals:	PLANNED	28	24	52	28	56	74	37	298
			BUD+COM	28	24	52	28	56	74	37	298
	OBS Totals:		PLANNED	28	24	52	28	56	74	37	298
			BUD+COM	28	24	52	28	56	74	37	298
CAPW[4] Totals:			PLANNED	28	24	52	28	56	74	37	298
			BUD+COM	28	24	52	28	56	74	37	298
4.1.B.4 LAT OPERATIONS FACILITY											
DH SU-HEPL											
2WCA190 4.1.B.4.1 IOC: LAT Ops: System Concept Design MT											
		CPN[1] Totals:	PLANNED	0	0	11	0	0	0	0	11
			BUD+COM	0	0	11	0	0	0	0	11
2WCA176 4.1.B.4.1 IOC: System Conceptual Design: Labor											
		CPN[1] Totals:	PLANNED	0	11	32	58	0	0	0	102
			BUD+COM	0	11	32	58	0	0	0	102
2WCA177 4.1.B.4.2 IOC: Data Acq S/W Develop: Labor											
		CPN[1] Totals:	PLANNED	0	0	0	0	104	108	38	250
			BUD+COM	0	0	0	0	104	108	38	250
2WCA178 4.1.B.4.3 IOC: Operations S/W Devel: Labor											
		CPN[1] Totals:	PLANNED	0	0	0	0	236	162	61	459
			BUD+COM	0	0	0	0	236	162	61	459
2WCA179 4.1.B.4.4 IOC: Command & Telemetry: Labor											
		CPN[1] Totals:	PLANNED	0	0	0	86	55	56	21	217
			BUD+COM	0	0	0	86	55	56	21	217
2WCA180 4.1.B.4.5 LAT Operations Facility: Labor											
		CPN[1] Totals:	PLANNED	0	0	0	0	24	66	29	120
			BUD+COM	0	0	0	0	24	66	29	120
2WCA181 4.1.B.4.5 LOF: M&S											
		CPN[1] Totals:	PLANNED	0	0	0	0	72	103	0	175
			BUD+COM	0	0	0	0	72	103	0	175
	OBS Totals:		PLANNED	0	11	43	144	490	496	149	1,334
			BUD+COM	0	11	43	144	490	496	149	1,334
CAPW[4] Totals:			PLANNED	0	11	43	144	490	496	149	1,334
			BUD+COM	0	11	43	144	490	496	149	1,334
4.1.B.5 IOC TEST											
DH SU-HEPL											
2WCA182 4.1.B.5.1-4 LAT Operations Facility Test: Labor											
		CPN[1] Totals:	PLANNED	0	0	0	0	119	62	0	181
			BUD+COM	0	0	0	0	119	62	0	181

Program:		Description:		Approval:							
1001		GLAST LAT Project		Program Manager							
Run Date:		Status Date:		Functional Manager							
12/12/01		10/31/01		Cost Account Manager							
CAPW[4]	OBS	CPN[1]	WP	FY00	FY01	FY02	FY03	FY04	FY05	FY06	Cumulative
			2WCA183 4.1.B.5.1-4 LOF Test: M&S								
		CPN[1] Totals:	PLANNED	0	0	0	0	12	0	0	12
			BUD+COM	0	0	0	0	12	0	0	12
			2WCA184 4.1.B.5.5 LOF Test: Travel								
		CPN[1] Totals:	PLANNED	0	0	0	0	10	23	0	33
			BUD+COM	0	0	0	0	10	23	0	33
	OBS Totals:		PLANNED	0	0	0	0	141	85	0	226
			BUD+COM	0	0	0	0	141	85	0	226
CAPW[4] Totals:			PLANNED	0	0	0	0	141	85	0	226
			BUD+COM	0	0	0	0	141	85	0	226
4.1.B.6 LAT PERFORMANCE VERIFICATION											
DH SU-HEPL											
			2WCA189 4.1.B.6 LAT Performance Verification: Labor								
		CPN[1] Totals:	PLANNED	0	0	34	101	91	81	34	341
			BUD+COM	0	0	34	101	91	81	34	341
	OBS Totals:		PLANNED	0	0	34	101	91	81	34	341
			BUD+COM	0	0	34	101	91	81	34	341
CAPW[4] Totals:			PLANNED	0	0	34	101	91	81	34	341
			BUD+COM	0	0	34	101	91	81	34	341
4.1.B.7 LAT INTEGRATION & TEST											
DH SU-HEPL											
			2WCA185 4.1.B.7.1-2 LAT Integration and Test: Labor								
		CPN[1] Totals:	PLANNED	0	0	0	13	131	48	0	192
			BUD+COM	0	0	0	13	131	48	0	192
			2WCA186 4.1.B.7.3 IOC: LAT I&T Travel								
		CPN[1] Totals:	PLANNED	0	0	0	15	44	0	0	59
			BUD+COM	0	0	0	15	44	0	0	59
	OBS Totals:		PLANNED	0	0	0	28	175	48	0	252
			BUD+COM	0	0	0	28	175	48	0	252
CAPW[4] Totals:			PLANNED	0	0	0	28	175	48	0	252
			BUD+COM	0	0	0	28	175	48	0	252
4.1.B.8 MISSION SYSTEMS INTEGRATION & TEST											
DH SU-HEPL											
			2WCA187 4.1.B.8.1-4 Mission Systems Integ & Test: Labor								
		CPN[1] Totals:	PLANNED	0	0	0	0	0	141	224	365
			BUD+COM	0	0	0	0	0	141	224	365
			2WCA188 4.1.B.8.5 IOC: MSI&T: Travel								
		CPN[1] Totals:	PLANNED	0	0	0	0	0	60	43	103
			BUD+COM	0	0	0	0	0	60	43	103
	OBS Totals:		PLANNED	0	0	0	0	0	201	267	468
			BUD+COM	0	0	0	0	0	201	267	468
CAPW[4] Totals:			PLANNED	0	0	0	0	0	201	267	468
			BUD+COM	0	0	0	0	0	201	267	468



**Gamma-ray
Large Area Space
Telescope**



Work Package Planning (Resource Loaded Schedule @ Work Package Level)

Act ID	Activity Description	Dur	Start	Finish	PMT	Budgeted Cost	FY01	FY02	FY03	FY04	FY05	FY06
B 4.1.B LAT INSTRUMENT OPERATIONS CENTER												
Subtotal		1,483	04/04/00A	03/31/06		3,712,391.21						3,712.3
B1 4.1.B.1 MANAGEMENT												
Subtotal		1,357	10/02/00A	03/31/06		669,012.21						669.012
DH SU-HEPL												
Subtotal		1,357	10/02/00A	03/31/06		669,012.21						669.012
+ 2WCA171 4.1.B.1.1-3 IOC Management: Labor												
		1,357	10/02/00A	03/31/06		342,376.54						342.376
+ 2WCA172 4.1.B.1.3,5 IOC Management: M&S												
		1,357	10/02/00A	03/31/06		219,884.64						219.884
+ 2WCA173 4.1.B.1.4 IOC Management: Travel												
		1,357	10/02/00A	03/31/06	A	106,751.03						106.751
B2 4.1.B.2 PERFORMANCE ASSURANCE												
Subtotal		1,061	12/11/01	03/31/06		123,148.67	123,148.67					
DH SU-HEPL												
Subtotal		1,061	12/11/01	03/31/06		123,148.67	123,148.67					
+ 2WCA174 4.1.B.2 IOC: Performance Assurance: Labor												
		1,061	12/11/01	03/31/06		123,148.67	123,148.67					
B3 4.1.B.3 MISSION & OPERATIONS PLANNING												
Subtotal		1,483	04/04/00A	03/31/06		298,516.20						298.516
DH SU-HEPL												
Subtotal		1,483	04/04/00A	03/31/06		298,516.20						298.516
+ 2WCA175 4.1.B.3 IOC: Mission & Operations Plannng: Labor												
		1,483	04/04/00A	03/31/06		298,516.20						298.516
B4 4.1.B.4 LAT OPERATIONS FACILITY												
Subtotal		1,193	06/04/01A	03/31/06		1,334,557.11						1,334.5
DH SU-HEPL												
Subtotal		1,193	06/04/01A	03/31/06		1,334,557.11						1,334.5
Run Date	12/12/01 15:24	GLAST - LAT PROJECT WorkPackagePlanningSummary (WBS4xOBSxWP)					Sheet 29					
© Primavera Systems, Inc.												

Act ID	Activity Description	Dur	Start	Finish	PMT	Budgeted Cost	FY01	FY02	FY03	FY04	FY05	FY06
+ 2WCA176 4.1.B.4.1 IOC: System Conceptual Design: Labor												
		570	06/04/01A	09/19/03		101,623.32						
+ 2WCA177 4.1.B.4.2 IOC: Data Acq S/W Develop: Labor												
		541	01/28/04	03/31/06		250,156.20						
+ 2WCA178 4.1.B.4.3 IOC: Operations S/W Devel: Labor												
		541	01/28/04	03/31/06		459,498.65						
+ 2WCA179 4.1.B.4.4 IOC: Command & Telemetry: Labor												
		835	10/01/02	02/21/06	A	216,925.38						
+ 2WCA180 4.1.B.4.5 LAT Operations Facility: Labor												
		571*	12/05/03	03/31/06	A	120,274.56						
+ 2WCA181 4.1.B.4.5 LOF: M&S												
		298	01/28/04	04/07/05	E	174,959.00						
+ 2WCA190 4.1.B.4.1 IOC: LAT Ops: System Concept Design MT												
		30	05/02/02	06/13/02	E	11,120.00						
B5 4.1.B.5 IOC TEST												
Subtotal		414	10/06/03	06/09/05		225,966.00						
DH SU-HEPL												
Subtotal		414	10/06/03	06/09/05		225,966.00						
+ 2WCA182 4.1.B.5.1-4 LAT Operations Facility Test: Labor												
		414	10/06/03	06/09/05		181,451.67						
+ 2WCA183 4.1.B.5.1-4 LOF Test: M&S												
		80	02/09/04	06/01/04	E	11,750.00						
+ 2WCA184 4.1.B.5.5 LOF Test: Travel												
		255*	06/01/04	06/09/05	A	32,764.33						
B6 4.1.B.6 LAT PERFORMANCE VERIFICATION												
Subtotal		1,061	12/11/01	03/31/06		340,615.27						
DH SU-HEPL												
Subtotal		1,061	12/11/01	03/31/06		340,615.27						
+ 2WCA189 4.1.B.6 LAT Performance Verification: Labor												
		1,061	12/11/01	03/31/06		340,615.27						

Act ID	Activity Description	Dur	Start	Finish	PMT	Budgeted Cost	FY01	FY02	FY03	FY04	FY05	FY06	
B7 4.1.B.7 LAT INTEGRATION & TEST													
Subtotal		312	08/18/03	11/16/04		252,029.54						252,029.54	
DH SU-HEPL													
Subtotal		312	08/18/03	11/16/04		252,029.54						252,029.54	
+ 2WCA185 4.1.B.7.1-2 LAT Integration and Test: Labor													
		312	08/18/03	11/16/04	E	192,839.92						192,839.92	
+ 2WCA186 4.1.B.7.3 IOC: LAT I&T Travel													
		129*	08/18/03	03/01/04	A	59,189.62						59,189.62	
B8 4.1.B.8 MISSION SYSTEMS INTEGRATION & TEST													
Subtotal		283	02/10/05	03/31/06		468,546.21						468,546.21	
DH SU-HEPL													
Subtotal		283	02/10/05	03/31/06		468,546.21						468,546.21	
+ 2WCA187 4.1.B.8.1-4 Mission Systems Integ & Test: Labor													
		283	02/10/05	03/31/06	E	365,404.78						365,404.78	
+ 2WCA188 4.1.B.8.5 IOC: MSI&T: Travel													
		283*	02/10/05	03/31/06	A	103,141.43						103,141.43	



**Gamma-ray
Large Area Space
Telescope**



Subsystem Milestones

Act ID	Activity Description	Start	Finish	Fiscal Year														
				FY00	FY01	FY02	FY03	FY04	FY05	FY06								
Subsystem Managers (Level 4)																		
BI83M10000	Simulation 2 Complete		12/09/05															▼
BI00003010	IOC S/W Release 4		01/18/06															▼
BI42000030	Data Acquisition S/W Development Release 4		01/18/06															▼
BI43000030	Operations S/W Development Release 4		01/18/06															▼
BI00001730	End-to-end Test (TBR) Complete		01/24/06															▼
BI00000220	Flight Readiness Review (FRR)		02/01/06															▼
BI00001735	Training Simulations Complete		02/17/06															▼
BI83M20000	Simulation 3 Complete		02/17/06															▼
BI84000300	LAT Activation & Checkout Complete		03/31/06															▼
BI00000250	IOC System Requirements Review		05/03/01A		▼													
BI00000280	IOC Preliminary Design Review		08/17/01A			▼												
BI00000070	Preliminary Design Review		01/07/02				▼											
BI41N00000	ND: Online System Spec from I&T to IOC		05/01/02*					▼										
BI00000130	Critical Design Review		08/05/02						▼									
BI00000310	IOC Critical Design Review		12/04/03															▼
BI712M0000	ND: Calibration Unit Beam Test from I&T to IOC		01/15/04*															▼
BI00000160	Pre-Environmental Review (PER)		07/09/04															▼
BI72M00000	ND: LAT EMI/EMC Test from I&T to IOC		08/09/04*															▼
BI72M10000	ND: LAT Vib/Acoustic Test from I&T to IOC		08/30/04*															▼
BI72M20000	ND: LAT Thermal Test from I&T to IOC		09/21/04*															▼
BI72M30000	ND: LAT Performance Test from I&T to IOC		10/26/04*															▼
BI00000190	Pre-Ship Review (PSR)		01/07/05															▼
BI00001440	LAT Turnover	03/23/05																▼
Run Date 12/12/01 14:43				GLAST LAT PROJECT Subsystem Milestones								Sheet 41						
© Primavera Systems, Inc.																		



**Gamma-ray
Large Area Space
Telescope**



Critical Activities with Total Float Less Than 80 Days

Act ID	Activity Description	Dur	Start	Finish	Total Float	Fiscal Year									
						FY01	FY02	FY03	FY04	FY05	FY06				
4.1.B.4 LAT OPERATIONS FACILITY															
BI00000790	Logging & Reporting	100	01/28/04	06/17/04	0										
BI00000800	Operations S/W Development Release 1	0		06/17/04	0										
BI00000870	System Management	248	12/05/03	12/06/04	0										
BI00000890	Procedures & Documentation	248	12/05/03	12/06/04	0										
BI00001000	Develop Procurement Specification	20	12/07/04	01/11/05	0										
BI452PR000	PR Svrs, Wrkstns, Prfls, COTS, Ntwrk Hrdwr	1	01/12/05	01/12/05	0										
BI00000820	Operations S/W Development Release 2	0		01/28/05	0										
BI00001040	COTS Software	1	04/07/05	04/07/05	0										
BI43000010	Operations S/W Development Release 3	0		09/15/05	0										
BI42000030	Data Acquisition S/W Development Release 4	0		01/18/06	0										
BI43000030	Operations S/W Development Release 4	0		01/18/06	0										
BI00001060	System Operation	243	04/08/05	03/31/06	0										
4.1.B.6 LAT PERFORMANCE VERIFICATION															
BI00001320	Implement Calibration Database	220	10/01/02	08/21/03	0										
BI65000010	Develop Testbed Procedures	220	11/19/02	10/10/03	0										
4.1.B.8 MISSION SYSTEMS INTEGRATION & TEST															
BI82N00020	ND: End-to-End Test from SCO to IOC	0		01/17/06*	0										
BI00001500	End-to-End Test	5	01/18/06	01/24/06	0										
BI84000010	Launch Preparation	25	01/25/06	03/01/06	0										
BI00001560	Ready for GLAST Launch	0		03/01/06	0										
BI84000000	HEPL	47	01/25/06	03/31/06	0										
BI84000300	LAT Activation & Checkout Complete	0		03/31/06	0										
1															
4.1.B.1 MANAGEMENT															
BI00000290	IOC-PDR Discrepancy Closeouts	74	08/18/01A	12/10/01	1										

Act ID	Activity Description	Dur	Start	Finish	Total Float	Fiscal Year									
						FY01	FY02	FY03	FY04	FY05	FY06				
4.1.B.1 MANAGEMENT															
BI00000120	CDR Preparations	8	07/24/02	08/02/02	1										
4.1.B.2 PERFORMANCE ASSURANCE															
BI00000450	Develop IOC Performance Assurance Plan	150	12/11/01	07/23/02	1										
BI00000490	Develop IOC Verification Plan	150	12/11/01	07/23/02	1										
4.1.B.4 LAT OPERATIONS FACILITY															
BI41000010	Trade Studies	150	12/11/01	07/23/02	1										
BI41000020	COTS Software Evaluations	150	12/11/01	07/23/02	1										
BI41600000	Concept Development	150	12/11/01	07/23/02	1										
4.1.B.6 LAT PERFORMANCE VERIFICATION															
BI00001290	Develop Calibration Implementation Plan	150	12/11/01	07/23/02	1										
4.1.B.8 MISSION SYSTEMS INTEGRATION & TEST															
BI00001570	S/C Activation & Checkout	11	03/02/06	03/16/06	1										
BI00001580	LAT Activation & Checkout	10	03/17/06	03/30/06	1										
2															
4.1.B.1 MANAGEMENT															
BI00000220	Flight Readiness Review (FRR)	0		02/01/06	2										
BI00000230	FRR Discrepancy Closeouts	15	02/02/06	02/23/06	2										
4.1.B.8 MISSION SYSTEMS INTEGRATION & TEST															
BI00001540	Pre-launch Functional Test	4	02/24/06	03/01/06	2										
BI00001550	Launch Support	20	03/02/06	03/29/06	2										
3															
4.1.B.1 MANAGEMENT															
BI00000060	PDR Preparations	10	12/11/01	01/02/02	3										
BI00000180	PSR Preparations	10	12/14/04	01/04/05	3										
4.1.B.4 LAT OPERATIONS FACILITY															
BI44L40000	Calibration Unit Database Release	0		08/07/03	3										
BI44000010	I&T Database Release	0		12/16/03	3										

Act ID	Activity Description	Dur	Start	Finish	Total Float	Fiscal Year									
						FY01	FY02	FY03	FY04	FY05	FY06				
4.1.B.4 LAT OPERATIONS FACILITY															
BI44000020	Environmental Test Database Release	0		06/01/04	3										
BI44000030	Observatory Integration Database Release	0		12/13/04	3										
4															
4.1.B.4 LAT OPERATIONS FACILITY															
BI44000040	Flight Database Release	0		11/01/05	4										
4.1.B.8 MISSION SYSTEMS INTEGRATION & TEST															
BI00001680	IOC Readiness Review	0		01/10/06	4										
5															
4.1.B LAT INSTRUMENT OPERATIONS CENTER															
BI00001650	IOC S/W Release 1	0		06/17/04	5										
4.1.B.1 MANAGEMENT															
BI00000150	PER Preparations	10	06/18/04	07/01/04	5										
4.1.B.4 LAT OPERATIONS FACILITY															
BI00000650	Data Acquisition Management	100	01/28/04	06/17/04	5										
BI00000660	Network Interfaces	100	01/28/04	06/17/04	5										
BI00000670	Data Decommuration & Storage	100	01/28/04	06/17/04	5										
BI00000680	Data Distribution	100	01/28/04	06/17/04	5										
BI00000690	Data Quality Monitoring	100	01/28/04	06/17/04	5										
BI00000700	Data Acquisition S/W Development Release 1	0		06/17/04	5										
7															
4.1.B LAT INSTRUMENT OPERATIONS CENTER															
BI00001735	Training Simulations Complete	0		02/17/06	7										
4.1.B.4 LAT OPERATIONS FACILITY															
BI00000610	Trade Studies	106	06/04/01A	11/30/01	7										
BI00000620	COTS Software Evaluations	106	06/04/01A	11/30/01	7										
BI41000000	HEPL	126*	06/04/01A	11/30/01	7										

Act ID	Activity Description	Dur	Start	Finish	Total Float	Fiscal Year									
						FY01	FY02	FY03	FY04	FY05	FY06				
4.1.B.8 MISSION SYSTEMS INTEGRATION & TEST															
BI00001530	Simulation 3	5	02/13/06*	02/17/06	7										I
BI83M20000	Simulation 3 Complete	0		02/17/06	7										▼
8															
4.1.B.4 LAT OPERATIONS FACILITY															
BI00000880	System Development	218	01/28/04	12/06/04	8										
BI451M0000	Development Model Complete	0		12/06/04	8										▼
4.1.B.8 MISSION SYSTEMS INTEGRATION & TEST															
BI82N00000	ND: Ground System Interface Test from SCO to IOC	0		09/16/05*	8										▼
BI83000010	Sim Procedures Development	100	09/19/05	02/16/06	8										
9															
4.1.B.8 MISSION SYSTEMS INTEGRATION & TEST															
BI00001700	Operation Readiness Review-IOC	0		03/06/06	9										▼
18															
4.1.B.1 MANAGEMENT															
BI00000040	Update Implementation Plan	100	02/06/02	06/27/02	18										
20															
4.1.B.4 LAT OPERATIONS FACILITY															
BI00001010	Servers	1	03/10/05	03/10/05	20										I
BI00001020	Workstations	1	03/10/05	03/10/05	20										I
BI00001030	Peripherals	1	03/10/05	03/10/05	20										I
BI00001050	A/V Hardware	1	03/10/05	03/10/05	20										I
25															
4.1.B LAT INSTRUMENT OPERATIONS CENTER															
BI00001730	End-to-end Test (TBR) Complete	0		01/24/06	25										▼
4.1.B.8 MISSION SYSTEMS INTEGRATION & TEST															
BI82000000	HEPL	147	06/17/05	01/24/06	25										
BI82000010	GSCT Procedure Development	147	06/17/05	01/24/06	25										

Act ID	Activity Description	Dur	Start	Finish	Total Float	Fiscal Year					
						FY01	FY02	FY03	FY04	FY05	FY06
26											
4.1.B.1 MANAGEMENT											
BI0000010	Revise Implementation Plan	45	09/15/01A	11/05/01	26						
29											
4.1.B LAT INSTRUMENT OPERATIONS CENTER											
BI00003010	IOC S/W Release 4	0		01/18/06	29						
4.1.B.8 MISSION SYSTEMS INTEGRATION & TEST											
BI83000000	HEPL	101	09/19/05	02/17/06	29						
30											
4.1.B.1 MANAGEMENT											
BI00000210	FRR Preparations	10	11/29/05	12/12/05	30						
4.1.B.5 IOC TEST											
BI54200000	HEPL	92*	01/31/05	06/09/05	30						
BI00001170	IOC/SAS I/F Test 2	5	06/03/05	06/09/05	30						
BI00001200	IOC/MOC I/F Test 2	5	06/03/05	06/09/05	30						
BI00001230	IOC/SSC I/F Test 2	5	06/03/05	06/09/05	30						
BI00001260	IOC/GN I/F Test 2	5	06/03/05	06/09/05	30						
BI54M00020	IOC I/F Test 2 Complete	0		06/09/05	30						
4.1.B.6 LAT PERFORMANCE VERIFICATION											
BI61000010	Develop Test Procedures	144	10/01/02	05/05/03	30						
4.1.B.8 MISSION SYSTEMS INTEGRATION & TEST											
BI81M00000	ND: LAT Observatory TV Test from SCO to IOC	0		04/20/05	30						
BI00001470	TV/TB Test Support	30	04/21/05	06/02/05	30						
31											
4.1.B.8 MISSION SYSTEMS INTEGRATION & TEST											
BI00001440	LAT Turnover	0	03/23/05		31						
BI00001450	Functional Tests	10	03/23/05	04/05/05	31						
BI00001460	EMI/EMC Test Support	10	04/06/05	04/19/05	31						

Act ID	Activity Description	Dur	Start	Finish	Total Float	Fiscal Year					
						FY01	FY02	FY03	FY04	FY05	FY06
32											
4.1.B.1 MANAGEMENT											
BI00000300	IOC-CDR Preparations	10	10/06/03	10/17/03	32						
34											
4.1.B.6 LAT PERFORMANCE VERIFICATION											
BI00001300	Develop Calibration Procedures	180	10/01/02	06/25/03	34						
37											
4.1.B.4 LAT OPERATIONS FACILITY											
BI00000980	System Development	230	12/07/04	11/08/05	37						
BI452M0000	Operational Model Complete	0		11/08/05	37						
42											
4.1.B.1 MANAGEMENT											
BI00000340	IOC Site Preparation	240	10/01/02	09/19/03	42						
4.1.B.4 LAT OPERATIONS FACILITY											
BI41H10000	Design Integration	240	10/01/02	09/19/03	42						
44											
4.1.B.6 LAT PERFORMANCE VERIFICATION											
BI62000000	Prototype Analysis Algorithms	120	10/01/02	04/01/03	44						
4.1.B.8 MISSION SYSTEMS INTEGRATION & TEST											
BI00001430	Pre-Turnover Functional Test	15	02/10/05	03/03/05	44						
45											
4.1.B.8 MISSION SYSTEMS INTEGRATION & TEST											
BI00001520	Simulation 2	5	12/05/05*	12/09/05	45						
46											
4.1.B.1 MANAGEMENT											
BI00000190	Pre-Ship Review (PSR)	0		01/07/05	46						
BI00000200	PSR Discrepancy Closeouts	20	01/10/05	02/07/05	46						
4.1.B.3 MISSION & OPERATIONS PLANNING											
BI00000540	Command & Telemetry Requirements	10	12/04/01*	12/17/01	46						

Act ID	Activity Description	Dur	Start	Finish	Total Float	Fiscal Year					
						FY01	FY02	FY03	FY04	FY05	FY06
48											
4.1.B.8 MISSION SYSTEMS INTEGRATION & TEST											
BI82N00010	ND: Mission Sequence Test from SCO to IOC	0		10/17/05*	48						▼
BI00001490	Mission Sequence Test	5	10/18/05	10/24/05	48						
64											
4.1.B.8 MISSION SYSTEMS INTEGRATION & TEST											
BI00001480	Ground Systems Interface Test	5	09/19/05	09/23/05	64						
65											
4.1.B.4 LAT OPERATIONS FACILITY											
BI00000720	Data Acquisition S/W Development Release 2	0		01/28/05	65					▼	
BI42000010	Data Acquisition S/W Development Release 3	0		09/15/05	65					▼	
68											
4.1.B.6 LAT PERFORMANCE VERIFICATION											
BI61000000	Support Verification Test Planning	160	12/11/01	08/06/02	68		█				
4.1.B.7 LAT INTEGRATION & TEST											
BI712M0000	ND: Calibration Unit Beam Test from I&T to IOC	0		01/15/04*	68				▼		
BI00001420	International Travel	129*	08/18/03	03/01/04	68			█			
BI00001350	SLAC Beam Test	30	01/16/04	03/01/04	68			█			
72											
4.1.B.8 MISSION SYSTEMS INTEGRATION & TEST											
BI83M10000	Simulation 2 Complete	0		12/09/05	72						▼



**Gamma-ray
Large Area Space
Telescope**



FTEs

Program: 1001	Description: GLAST LAT Project	Approval: Program Manager Functional Manager Cost Account Manager
Run Date: 12/13/01	Status Date: 10/31/01	

CAPW[3]	OBS[3]	START	FY00	FY01	FY02	FY03	FY04	FY05	FY06	Cumulative	
4.1.B LAT INSTRUMENT OPERATIONS CENTER											
DH SU-HEPL											
	FY_FTE	PLANNED	0.0	0.4	0.6	1.0	2.3	6.1	6.0	3.2	19.6
CAPW[3] Totals:		PLANNED	0.0	0.4	0.6	1.0	2.3	6.1	6.0	3.2	19.6