



**Gamma-ray
Large Area Space
Telescope**



GLAST LAT PROJECT

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

4.1.6 Anticoincidence Detector
Subsystem Manager – D. Thompson

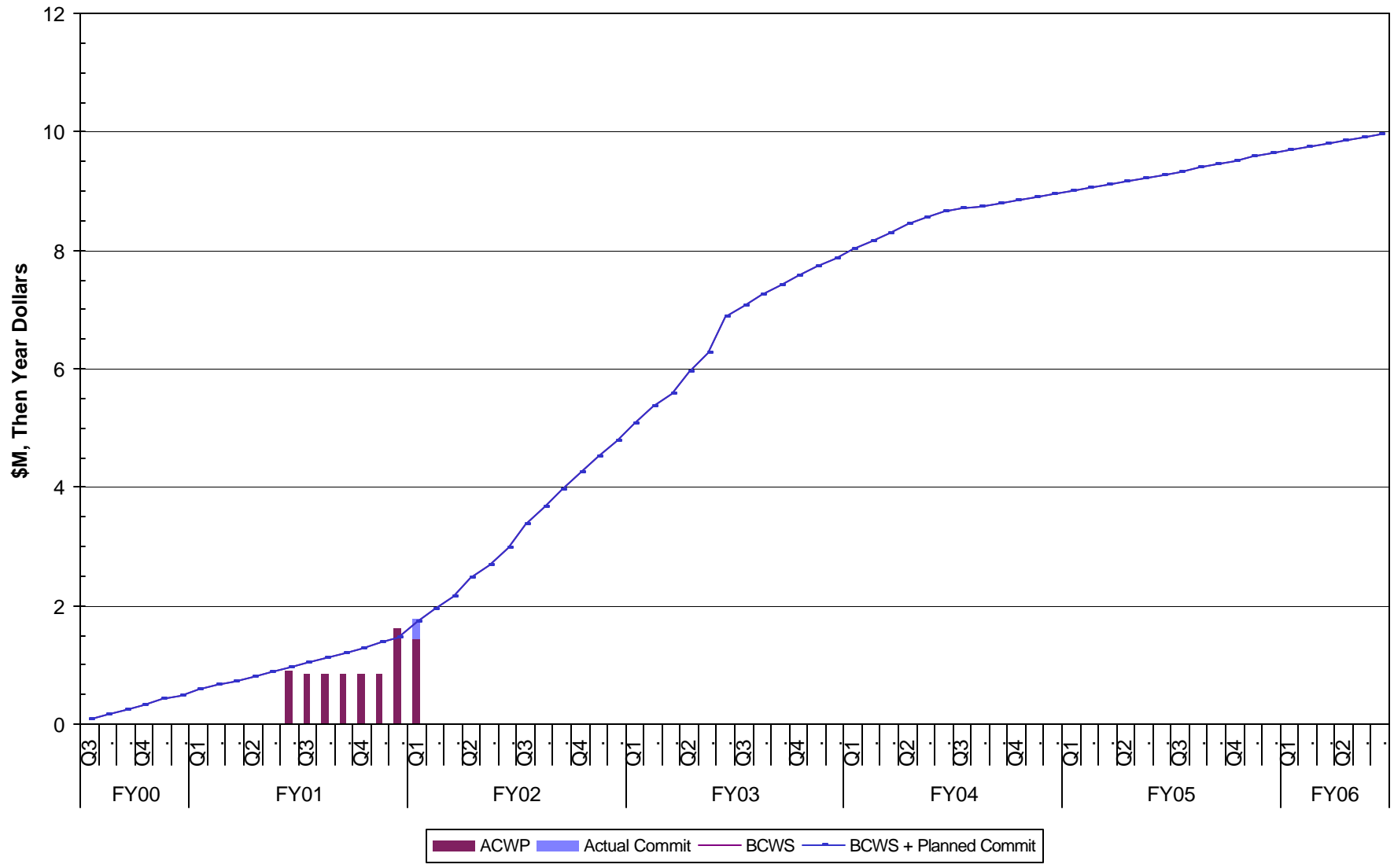


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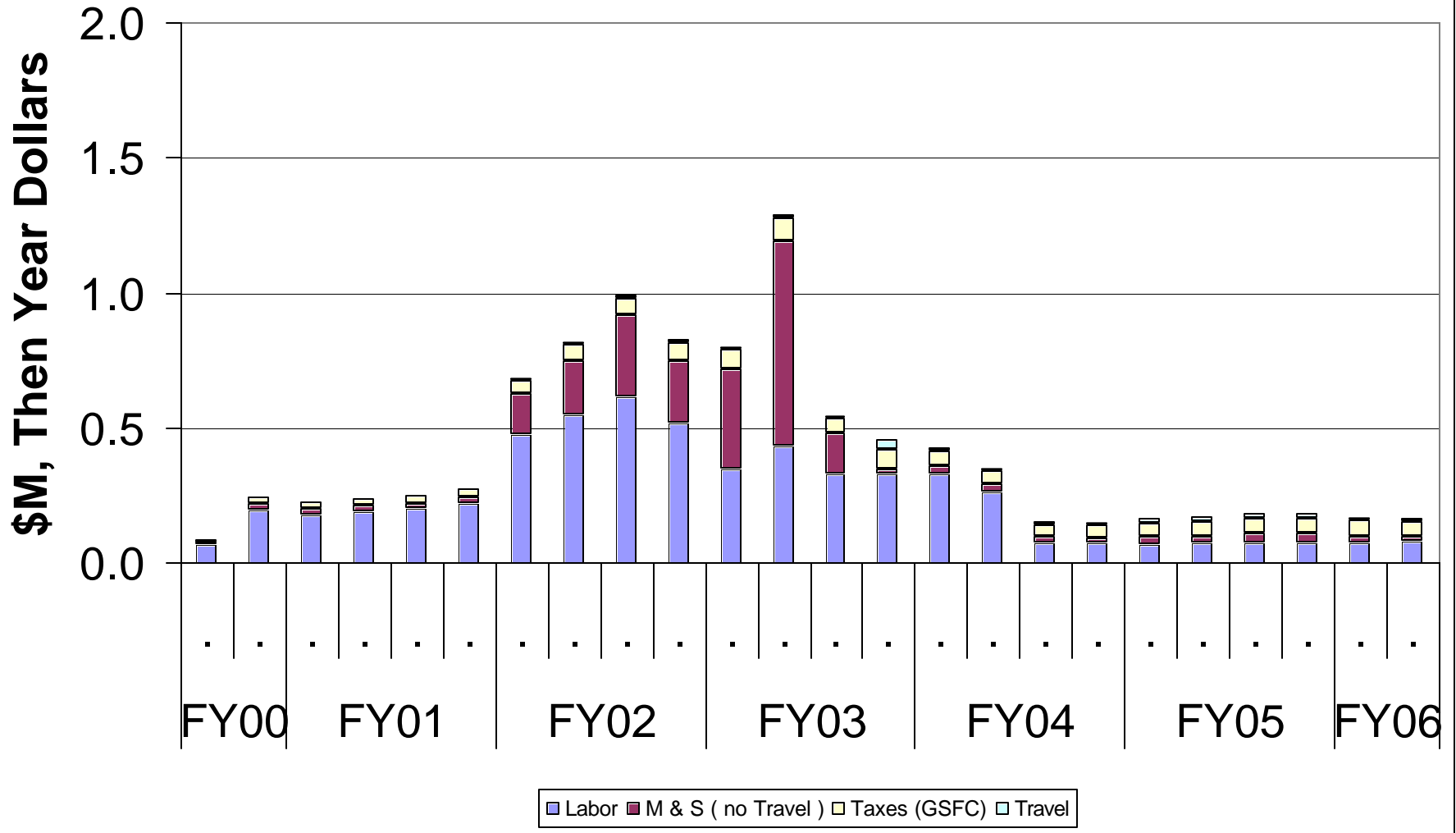


Cost & Commitment Profile

4.1.6 Anti-Coincidence Detector Costs and Commitments



4.1.6 Anticoincidence Detector Cost Type





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Cost Detail @ Work Package Level

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

CAPW[4]	OBS	CPN[1]	WP	FY00	FY01	FY02	FY03	FY04	FY05	FY06	Cumulative
4.1.6 ANTICOINCIDENCE DETECTOR											
DG GSFC											
NG416 4.1.6 ANTICOINCIDENCE DETECTOR											
		CPN[1] Totals:	PLANNED	0	0	0	0	0	0	0	0
			BUD+COM	0	0	0	0	0	0	0	0
	OBS Totals:		PLANNED	0	0	0	0	0	0	0	0
			BUD+COM	0	0	0	0	0	0	0	0
CAPW[4] Totals:			PLANNED	0	0	0	0	0	0	0	0
			BUD+COM	0	0	0	0	0	0	0	0
4.1.6.1 ACD PROJECT MANAGEMENT/SUBSYSTEM ENGINEERING											
DG GSFC											
NG4161 4.1.6.1 ACD Management											
		CPN[1] Totals:	PLANNED	146	284	633	565	568	654	312	3,161
			BUD+COM	146	284	633	565	568	654	312	3,161
	OBS Totals:		PLANNED	146	284	633	565	568	654	312	3,161
			BUD+COM	146	284	633	565	568	654	312	3,161
CAPW[4] Totals:			PLANNED	146	284	633	565	568	654	312	3,161
			BUD+COM	146	284	633	565	568	654	312	3,161
4.1.6.2 RELIABILITY & QUALITY ASSURANCE											
DG GSFC											
NG4162 4.1.6.2 QA / Reliability											
		CPN[1] Totals:	PLANNED	26	51	164	180	122	0	0	543
			BUD+COM	26	51	164	180	122	0	0	543
	OBS Totals:		PLANNED	26	51	164	180	122	0	0	543
			BUD+COM	26	51	164	180	122	0	0	543
CAPW[4] Totals:			PLANNED	26	51	164	180	122	0	0	543
			BUD+COM	26	51	164	180	122	0	0	543
4.1.6.3 TILE SHELL ASSEMBLY (TSA)											
DG GSFC											
NG4163 4.1.6.3 Detectors / Mechanical											
		CPN[1] Totals:	PLANNED	132	272	753	952	20	0	0	2,128
			BUD+COM	132	272	753	952	20	0	0	2,128
	OBS Totals:		PLANNED	132	272	753	952	20	0	0	2,128
			BUD+COM	132	272	753	952	20	0	0	2,128
CAPW[4] Totals:			PLANNED	132	272	753	952	20	0	0	2,128
			BUD+COM	132	272	753	952	20	0	0	2,128
4.1.6.4 BAE ELECTRONICS ASSEMBLY (BEA)											
DG GSFC											
NG4164 4.1.6.4 Base Electronics Assembly											
		CPN[1] Totals:	PLANNED	187	375	1,158	688	0	0	0	2,408
			BUD+COM	187	375	1,158	688	0	0	0	2,408
	OBS Totals:		PLANNED	187	375	1,158	688	0	0	0	2,408
			BUD+COM	187	375	1,158	688	0	0	0	2,408
CAPW[4] Totals:			PLANNED	187	375	1,158	688	0	0	0	2,408
			BUD+COM	187	375	1,158	688	0	0	0	2,408
4.1.6.5 MICROMETEOROID SHIELD/THERMAL BLANKET ASSY (TBA)											
DG GSFC											
NG4165 4.1.6.5 Shield & Blanket											
		CPN[1] Totals:	PLANNED	0	0	130	58	0	0	0	188
			BUD+COM	0	0	130	58	0	0	0	188
	OBS Totals:		PLANNED	0	0	130	58	0	0	0	188
			BUD+COM	0	0	130	58	0	0	0	188
CAPW[4] Totals:			PLANNED	0	0	130	58	0	0	0	188
			BUD+COM	0	0	130	58	0	0	0	188
4.1.6.7 HARDWARE/SOFTWARE INTEGRATION & TEST											
DG GSFC											
NG4167 4.1.6.7 Hardware I & T											
		CPN[1] Totals:	PLANNED	0	0	50	484	286	0	0	820
			BUD+COM	0	0	50	484	286	0	0	820

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

CAPW[4]	OBS	CPN[1]	WP		FY00	FY01	FY02	FY03	FY04	FY05	FY06	Cumulative
	OBS Totals:		PLANNED		0	0	50	484	286	0	0	820
			BUD+COM		0	0	50	484	286	0	0	820
CAPW[4] Totals:			PLANNED		0	0	50	484	286	0	0	820
			BUD+COM		0	0	50	484	286	0	0	820
4.1.6.8 LAT INSTRUMENT INTEGRATION & TEST (I&T)												
DG GSFC												
NG4168 4.1.6.8 LAT Instrument I & T												
	CPN[1] Totals:		PLANNED		0	0	0	74	50	15	0	139
			BUD+COM		0	0	0	74	50	15	0	139
	OBS Totals:		PLANNED		0	0	0	74	50	15	0	139
			BUD+COM		0	0	0	74	50	15	0	139
CAPW[4] Totals:			PLANNED		0	0	0	74	50	15	0	139
			BUD+COM		0	0	0	74	50	15	0	139
4.1.6.9 MISSION INTEGRATION & TEST SUPPORT												
DG GSFC												
NG4169 4.1.6.9 Mission I & T Support												
	CPN[1] Totals:		PLANNED		0	0	0	0	0	24	16	41
			BUD+COM		0	0	0	0	0	24	16	41
	OBS Totals:		PLANNED		0	0	0	0	0	24	16	41
			BUD+COM		0	0	0	0	0	24	16	41
CAPW[4] Totals:			PLANNED		0	0	0	0	0	24	16	41
			BUD+COM		0	0	0	0	0	24	16	41
4.1.6.B GROUND SUPPORT FACILITIES & EQUIPMENT												
DG GSFC												
NG416B 4.1.6.B GSE Facilities & Equipment												
	CPN[1] Totals:		PLANNED		0	1	425	82	24	0	0	531
			BUD+COM		0	1	425	82	24	0	0	531
	OBS Totals:		PLANNED		0	1	425	82	24	0	0	531
			BUD+COM		0	1	425	82	24	0	0	531
CAPW[4] Totals:			PLANNED		0	1	425	82	24	0	0	531
			BUD+COM		0	1	425	82	24	0	0	531



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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
6 4.1.6 ANTICOINCIDENCE DETECTOR												
Subtotal		1,484	04/03/00A	03/31/06		9,960,622.89						9,960.6
6 4.1.6 ANTICOINCIDENCE DETECTOR												
Subtotal		1,484	04/03/00A	03/31/06	A	0.00						0.00
DG GSFC												
Subtotal		1,484	04/03/00A	03/31/06	A	0.00						0.00
+ NG416 4.1.6 ANTICOINCIDENCE DETECTOR												
		1,484	04/03/00A	03/31/06	A	0.00						0.00
61 4.1.6.1 ACD PROJECT MANAGEMENT/SUBSYSTEM ENG.												
Subtotal		1,484	04/03/00A	03/31/06		3,161,407.26						3,161.4
DG GSFC												
Subtotal		1,484	04/03/00A	03/31/06		3,161,407.26						3,161.4
+ NG4161 4.1.6.1 ACD Management												
		1,484	04/03/00A	03/31/06		3,161,407.26						3,161.4
62 4.1.6.2 RELIABILITY & QUALITY ASSURANCE												
Subtotal		1,004	04/03/00A	04/22/04	A	543,273.25						543,273.25
DG GSFC												
Subtotal		1,004	04/03/00A	04/22/04	A	543,273.25						543,273.25
+ NG4162 4.1.6.2 QA / Reliability												
		1,004	04/03/00A	04/22/04	A	543,273.25						543,273.25
63 4.1.6.3 TILE SHELL ASSEMBLY (TSA)												
Subtotal		994	04/03/00A	04/08/04		2,128,359.11						2,128,359.11
DG GSFC												
Subtotal		994	04/03/00A	04/08/04		2,128,359.11						2,128,359.11
+ NG4163 4.1.6.3 Detectors / ? Mechnaical												
		994	04/03/00A	04/08/04		2,128,359.11						2,128,359.11
64 4.1.6.4 BAE ELECTRONICS ASSEMBLY (BEA)												
Subtotal		869	04/03/00A	10/01/03		2,408,472.20						2,408,472.20

Act ID	Activity Description	Dur	Start	Finish	PMT	Budgeted Cost	FY01	FY02	FY03	FY04	FY05	FY06
DG GSFC												
Subtotal		869	04/03/00A	10/01/03		2,408,472.20						2,408,472.20
+ NG4164 4.1.6.4 Base Electronics Assembly												
		869	04/03/00A	10/01/03		2,408,472.20						2,408,472.20
65 4.1.6.5 MICROMETEOROID SHIELD/THERMAL BLANKET												
Subtotal		617	12/01/00A	06/04/03		187,600.00						187,600.00
DG GSFC												
Subtotal		617	12/01/00A	06/04/03		187,600.00						187,600.00
+ NG4165 4.1.6.5 Shield & Blanket												
		617	12/01/00A	06/04/03		187,600.00						187,600.00
67 4.1.6.7 H/W-S/W INTEGRATION & TEST												
Subtotal		398	07/01/02	02/12/04		820,310.83						820,310.83
DG GSFC												
Subtotal		398	07/01/02	02/12/04		820,310.83						820,310.83
+ NG4167 4.1.6.7 Hardware I & T												
		398	07/01/02	02/12/04		820,310.83						820,310.83
68 4.1.6.8 LAT INSTRUMENT INTEGRATION & TEST (I&T)												
Subtotal		432	07/01/03	03/31/05	A	138,933.36						138,933.36
DG GSFC												
Subtotal		432	07/01/03	03/31/05	A	138,933.36						138,933.36
+ NG4168 4.1.6.8 LAT Instrument I & T												
		432	07/01/03	03/31/05	A	138,933.36						138,933.36
69 4.1.6.9 MISSION INTEGRATION & TEST SUPPORT												
Subtotal		186	04/01/05	12/23/05	A	40,743.66						40,743.66
DG GSFC												
Subtotal		186	04/01/05	12/23/05	A	40,743.66						40,743.66
+ NG4169 4.1.6.9 Mission I & T Support												
		186	04/01/05	12/23/05	A	40,743.66						40,743.66
Run Date	12/12/01 15:24		GLAST - LAT PROJECT WorkPackagePlanningSummary (WBS4xOBSxWP)				Sheet 13					
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Act ID	Activity Description	Dur	Start	Finish	PMT	Budgeted Cost	FY01	FY02	FY03	FY04	FY05	FY06	
6B 4.1.6.B GROUND SUPPORT FACILITIES & EQUIPMENT													
Subtotal		714	02/15/01A	01/07/04		531,523.22						531,523.22	
DG GSFC													
Subtotal		714	02/15/01A	01/07/04		531,523.22						531,523.22	
+ NG416B 4.1.6.B GSE Facilities & Equipment													
		714	02/15/01A	01/07/04		531,523.22						531,523.22	



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Subsystem Milestones

Act ID	Activity Description	Start	Finish	FY00	FY01	FY02	FY03	FY04	FY05	FY06	
4.1.6 ANTICOINCIDENCE DETECTOR											
Subsystem Managers (Level 4)											
6A80001710	HVPS Decision		04/30/01A		▼						
6A80001720	PMT Specification		07/13/01A		▼						
6A80006780	Cal Unit BEA Planning Pkg Complete		10/01/01A		▼						
6A80003260	Design of 1st Run ASIC (Agilent Process) Complet		10/26/01A		▼						
6A80006600	Shell Design Complete		01/02/02			▽					
6A80006590	ACD Fiber Routing Mockup Complete		02/05/02			▽					
6A80001780	Tile & Fiber Wrapping Design Complete		02/28/02			▽					
6A80006680	EU HVPS Functional Testing Complete		03/26/02			▽					
6A80006870	Analog ASIC TS Testing Complete		04/04/02			▽					
6A80006880	Digital ASIC TS Testing Complete		04/04/02			▽					
6A80003810	Test of 1st Run Analog ASICs Complete		04/12/02			▽					
6A80001790	Prototype TDA Fab & Assy Complete		04/29/02			▽					
6A80002780	Proto TDA Tiedown Fab/Assy Complete		05/29/02			▽					
6A80006730	Test of 1st Run Digital ASICs Complete		05/30/02			▽					
6A80006790	Receive COTS PMTs @ GSFC		06/03/02			▽					
6A80000170	Prelim Hazard Analysis Inputs for CDR Developed		06/05/02			▽					
6A80000180	Op & Supt Hazard Analysis for CDR Developed		06/06/02			▽					
6A80001760	PIL & PABL for CDR Developed		06/06/02			▽					
6A80001770	Materials & Lubrication Lists for CDR Developed		06/06/02			▽					
6A80002500	TU Shell Delivered to GSFC		06/10/02			▽					
6A80003060	Proto TDA Tiedown Vibe Test Complete		06/12/02			▽					
6A80002650	Micrometeoroid Shield Design Complete		06/13/02			▽					
6A80001730	Final FMEA and CIL Developed for CDR		06/26/02			▽					
Run Date				12/12/01 14:43	GLAST LAT PROJECT						Sheet 16
© Primavera Systems, Inc.					Subsystem Milestones						

Act ID	Activity Description	Start	Finish	FY00 FY01 FY02 FY03 FY04 FY05 FY06																
				FY00	FY01	FY02	FY03	FY04	FY05	FY06										
Subsystem Managers (Level 4)																				
6A80001750	Final Limited Life List Developed for CDR		06/26/02																	
6A80006660	Base Frame Design Complete		07/03/02																	
6A80006690	TU HVPS PCB Testing Complete		07/11/02																	
6A80003280	ACD Turnover Assy/Dolly Delivered to GSFC		07/12/02																	
6A80003440	Shell Handling Assy Delivered to GSFC		08/16/02																	
6A80003690	Flight Base Frame Delivered to GSFC		08/16/02																	
6A80003990	Initial Proof Test of ACD Lifting Slings Complet		08/16/02																	
6A80006700	Flight HVPS PCB Fabrication Complete		08/27/02																	
6A80002950	TU TDA Acceptance Testing Complete		08/30/02																	
6A80004520	Test of 2nd Run ASICs Complete		09/05/02																	
6A80002520	TU Base Frame Delivered to GSFC		09/10/02																	
6A80006760	Fab of FREE EU PCB Complete		09/20/02																	
6A80006610	DAQ I/F Test Unit TSA Planning Pkg Complete		09/30/02																	
6A80002000	FREE Test Cable Fab Complete		10/15/02																	
6A80006670	TU Base Frame Delivered to Electricals		10/23/02																	
6A80003270	Flight Shield Material Procurement Complete		10/31/02																	
6A80006740	Test of 2nd Run Digital ASICs Complete		11/04/02																	
6A80006770	DAQ I/F Test Unit BEA Planning Pkg Complete		11/12/02																	
6A80001820	Fab of FREE TU PCBs Complete		12/18/02																	
6A80006620	Cal Unit TSA Planning Pkg Complete		12/23/02																	
6A80003150	Flight HVPS Units Tested		01/14/03																	
6A80004530	Test of 3rd Run ASICs Complete		01/23/03																	
6A80006860	Shield/Blanket Mass Sim Delivered to GSFC		02/19/03																	
6A80001830	FREE TU PWA Testing Complete		02/25/03																	
Run Date 12/12/01 14:43				GLAST LAT PROJECT Subsystem Milestones												Sheet 17				
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Act ID	Activity Description	Start	Finish	Fiscal Year															
				FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11				
Subsystem Managers (Level 4)																			
6A80003640	Flight Shell Delivered to GSFC		02/25/03						▼										
6A80006800	Receive Flight PMTs @ GSFC		03/03/03						▼										
6A80001660	DeliverDAQ I/F Test Unit to SLAC		03/05/03						▼										
6A80003490	Flight TDA Tiedown Fab/Assy Complete		03/14/03						▼										
6A80002730	Flight TDA Acceptance Testing Complete		03/17/03						▼										
6A80003340	DAQ I/F Test Unit I&T Complete		03/31/03						▼										
6A80006720	Digital ASIC Design/Supt Doc Prep Complete		03/31/03						▼										
6A80003720	Cal Unit Shield/TBA Available for I&T		04/07/03						▼										
6A80004540	Fab of FREE FU PCBs Complete		04/08/03						▼										
6A80006630	ACD Mech Subsys Vibe Test Complete		05/07/03						▼										
6A80006710	PMT & Divider Network Test Complete		06/03/03						▼										
6A80006810	Flight Shield/TBA Available for I&T		06/04/03						▼										
6A80002770	Flight Spare TDA Acceptance Testing Complete		06/25/03						▼										
6A80006640	Deliver Qualified Mech H/W to I&T		06/26/03						▼										
6A80006820	TVAC Harness Design & Fab Complete		07/14/03						▼										
6A80004550	FREE FU PWA Testing Complete		07/24/03						▼										
6A80006830	Flight TSA I&T Complete		08/25/03						▼										
6A80003750	Flight BEA I&T Complete		10/01/03						▼										
6A80006650	Draft BEA Mech/Elect Dwg Complete		10/01/03						▼										
6A80001690	Deliver Cal Model to SLAC		10/31/03*						▼										
6A80006840	Flight ACD I&T Complete		11/11/03						▼										
6A80006850	Flight ACD TB/TVAC Tests Complete		12/12/03						▼										
6A80003450	ACD Shipping Container Testing Complete		01/07/04						▼										
6A80001700	Deliver Flight Model to SLAC		04/22/04						▼										

Act ID	Activity Description	Start	Finish	FY00	FY01	FY02	FY03	FY04	FY05	FY06
6A80000000	Contract Start		04/03/00A							
6A80000570	Receive LAT PAIP	02/01/01A			▼					
6A80000600	Submit ASIC to Foundry	02/05/01A			▼					
6A80000990	Change to Agilent Process	05/21/01A				▼				
6A80001140	ACD-PDR Peer Review		07/26/01A				▼			
6A80001800	Issue ACD Quality Plan	09/04/01A						▼		
6A80001320	~Go-Ahead for Proof of Design Divider Network		09/28/01A						▼	
6A80001450	~(Need) TEM/ACD ICD Approved		10/15/01A							▼
6A80004710	Qual Readiness Review-ACD		10/31/01							▽
6A80004720	Qual Review-ACD		10/31/01							▽
6A80004730	Sub System ACD RFI's		10/31/01							▽
6A80001390	~(Need) Level 3 Requirements Approved		11/01/01*							▽
6A80001400	~(Need) Level 4 Requirements Approved		11/01/01*							▽
6A80006070	~SLAC Define ASIC Pkg	12/03/01*								▽
6A80006080	~SLAC Define ACD Part No., Pkg, Type	12/03/01*								▽
6A80006090	~Murphy Define PMT Flight Part	12/03/01*								▽
6A80006100	~Ruitberg Define HVPS Flight Part	12/03/01*								▽
6A80006110	~Murphy Define Mechanical Flight Part	12/03/01*								▽
6A80001160	ACD Ready for I-PDR	01/08/02*								▽
6A80006370	~Expect TEM1 Delivery from SLAC	02/28/02*								▽
6A90000120	ND: (1) Prototype ACD Electronic Module		03/15/02*							▽
6A90000150	ND: EGSE Workstation / Software #1		03/15/02*							▽
6A90000100	ND: MGSE Requirements from I & T		03/22/02*							▽
6A90000110	ND: SLAC Facilities Specification		03/22/02*							▽

Act ID	Activity Description	Start	Finish	Fiscal Year															
				FY00	FY01	FY02	FY03	FY04	FY05	FY06									
6A80006360	~Expect TEM 2 Deilvery from SLAC		04/01/02*																
6A80003010	Receive (40) COTS TU PMTs	06/03/02*																	
6A90000080	AV: High Voltage Power Supply (Bd & Parts)		06/03/02*																
6A80001180	Ready for ACD CDR		06/26/02																
6A90000060	AV: Test / Screening Board w/ ASIC - EM1		07/01/02*																
6A90000130	ND: ACD Electronics Module 1 (EM1)		07/01/02*																
6A90000160	ND: EGSE Workstation / Software #2		07/01/02*																
6A80001200	ACD Ready for I-CDR	08/06/02																	
6A80003160	Flight Base Frame Handling Dolly Availabl	08/12/02*																	
6A80006030	~Delivery BFA	09/13/02*																	
6A80001340	(Need) TEM 3-5 Delivery from SLAC		10/16/02*																
6A90000020	AV: Doc'n re: Backsplash Test Model/ACD Cal Unit		01/03/03*																
6A80006350	~TEM 3-5 Expected Delivery	01/06/03*																	
6A80003520	Receive (220) Flight PMTs & (10) Qual PMTs	03/03/03*																	
6A90000070	AV: (11) FREE Bds & ASICS, 1Fully Tested Bd- EM2		03/03/03*																
6A90000140	ND: (2) ACD Electronics Modules (EM2)		03/03/03*																
6A90000170	ND: EGSE Workstation / Software #3		03/03/03*																
6A80003400	Delivery of DAQ I/F Unit		03/05/03																
6A80003040	Last H/W Available for Cal Unit BEA Equivalent	03/10/03																	
6A80003530	Last Cal Unit TSA Equivalent H/W Available		03/17/03																
6A90000090	ND: Flight Grid fr Mechanical for Fit Test		05/08/03*																
6A80004020	Cal Unit ACD Equivalent Ready for Ship	06/06/03																	
6A90000030	AV: Calibration Test Unit at SLAC, Tested & RFI		11/03/03*																
6A90000040	AV: ACD Test Scripts		02/02/04*																

Act ID	Activity Description	Start	Finish	FY00	FY01	FY02	FY03	FY04	FY05	FY06
6A90000050	AV: ACD Flight Unit at SLAC, Tested/Insp & RFI		04/26/04*					▼		
6A83000200	Thermal Blanket RFI		04/27/04*					▼		
6A80004360	(L-90d) Ship Spacecraft to Launch Site	01/03/06*								▼



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Critical Activities with Total Float Less Than 80 Days

Act ID	Activity Description	Dur	Start	Finish	Total Float										
						FY01	FY02	FY03	FY04	FY05	FY06				
4.1.6 ANTICOINCIDENCE DETECTOR															
0															
4.1.6 ANTICOINCIDENCE DETECTOR															
6A80001160	ACD Ready for I-PDR	0	01/08/02*		0										
6A90000080	AV: High Voltage Power Supply (Bd & Parts)	0		06/03/02*	0										
6A80001180	Ready for ACD CDR	0		06/26/02	0										
6A90000060	AV: Test / Screening Board w/ ASIC - EM1	0		07/01/02*	0										
6A90000070	AV: (11) FREE Bds & ASICS, 1Fully Tested Bd- EM2	0		03/03/03*	0										
4.1.6.2 RELIABILITY & QUALITY ASSURANCE															
6A80001730	Final FMEA and CIL Developed for CDR	0		06/26/02	0										
6A80001750	Final Limited Life List Developed for CDR	0		06/26/02	0										
4.1.6.3 TILE SHELL ASSEMBLY (TSA)															
6A90000040	AV: ACD Test Scripts	0		02/02/04*	0										
4.1.6.7 H/W-S/W INTEGRATION & TEST															
6A90000020	AV: Doc'n re: Backsplash Test Model/ACD Cal Unit	0		01/03/03*	0										
4.1.6.8 LAT INSTRUMENT INTEGRATION & TEST (I&T)															
6A90000030	AV: Calibration Test Unit at SLAC, Tested & RFI	0		11/03/03*	0										
6A90000050	AV: ACD Flight Unit at SLAC, Tested/Insp & RFI	0		04/26/04*	0										
6A80004240	Flight ACD Support	210	04/27/04*	03/03/05	0										
2															
4.1.6.1 ACD PROJECT MANAGEMENT/SUBSYSTEM ENG.															
6A80001230	Pack & Ship Flight Model (\$)	10	04/09/04	04/22/04	2										
6A80001700	Deliver Flight Model to SLAC	0		04/22/04	2										
4.1.6.3 TILE SHELL ASSEMBLY (TSA)															
6A80006620	Cal Unit TSA Planning Pkg Complete	0		12/23/02	2										
14															
4.1.6.2 RELIABILITY & QUALITY ASSURANCE															
6A80000180	Op & Supt Hazard Analysis for CDR Developed	0		06/06/02	14										

Act ID	Activity Description	Dur	Start	Finish	Total Float	Fiscal Year														
						FY01	FY02	FY03	FY04	FY05	FY06									
4.1.6.2 RELIABILITY & QUALITY ASSURANCE																				
6A80001760	PIL & PABL for CDR Developed	0		06/06/02	14															
6A80001770	Materials & Lubrication Lists for CDR Developed	0		06/06/02	14															
15																				
4.1.6.2 RELIABILITY & QUALITY ASSURANCE																				
6A80000170	Prelim Hazard Analysis Inputs for CDR Developed	0		06/05/02	15															
18																				
4.1.6.3 TILE SHELL ASSEMBLY (TSA)																				
6A80005190	*ACD Structural Design & Test Loads for ACD Comp	29*	10/01/01A	11/08/01	18															
6A80005180	*ACD Mechanical Subsystem Prelim Design	44*	10/01/01A	12/03/01	18															
6A80005160	*ACD Mechanical Systems Specification	59*	10/01/01A	01/02/02	18															
35																				
4.1.6.3 TILE SHELL ASSEMBLY (TSA)																				
6A80001790	Prototype TDA Fab & Assy Complete	0		04/29/02	35															
6A80002580	*TU TDA Fab & Assembly (20 TDA's) - Fermi	65	04/30/02	07/31/02	35															
6A80002880	*TU TDA Acceptance Testing by 660 (20 TDA's)	22	08/01/02	08/30/02	35															
6A80002950	TU TDA Acceptance Testing Complete	0		08/30/02	35															
6A80003380	*Flight TDA Acceptance Testing (by 660)(89 TDA's)	35	01/27/03	03/17/03	35															
6A80005300	*Flight Spare TDA Fab & Assy (28 TDAs) - Fermi	61	03/18/03	06/11/03	35															
6A80005310	*Flight Spare TDA Accept Test (by 660)(28 TDAs)	10	06/12/03	06/25/03	35															
6A80002770	Flight Spare TDA Acceptance Testing Complete	0		06/25/03	35															
6A80005260	*Deliver Qualified Mech H/W to ACD I&T	1	06/26/03	06/26/03	35															
6A80006640	Deliver Qualified Mech H/W to I&T	0		06/26/03	35															
4.1.6.7 H/W-S/W INTEGRATION & TEST																				
6A80003660	\$\$1Flight TSA Integration & Test	41	06/27/03*	08/25/03	35															
6A80006830	Flight TSA I&T Complete	0		08/25/03	35															
6A80004900	\$\$1Flight ACD Integration & Test	55	08/26/03	11/11/03	35															

Act ID	Activity Description	Dur	Start	Finish	Total Float	Fiscal Year									
						FY01	FY02	FY03	FY04	FY05	FY06				
4.1.6.7 H/W-S/W INTEGRATION & TEST															
6A80006840	Flight ACD I&T Complete	0		11/11/03	35										
6A80004910	\$1ACD EMI/EMC Test	8	11/12/03	11/21/03	35										
6A80004920	\$1ACD Acoustic/Vibration Tests	13	11/24/03	12/12/03	35										
6A80004930	\$1ACD Thermal Balance/Thermal Vacuum Tests	35	12/15/03	02/11/04	35										
6A80004940	\$1ACD Mass Properties	1	02/12/04	02/12/04	35										
6A80004950	\$1ACD Final Check	6	02/13/04	02/23/04	35										
36															
4.1.6.3 TILE SHELL ASSEMBLY (TSA)															
6A80005170	*ACD Mechanical Parts & Materials Lists	20*	10/09/01A	11/05/01	36										
46															
4.1.6.3 TILE SHELL ASSEMBLY (TSA)															
6A80002240	*Acceptance Test PMT Fiber Conn - Light Yield	10	04/01/02*	04/12/02	46										
49															
4.1.6.3 TILE SHELL ASSEMBLY (TSA)															
6A80005200	*BEA Mech Subsys Integr (Install Mass Sims)	20	03/20/03	04/16/03	49										
6A80003730	*ACD Mechanical Subsystem Integration	2	04/17/03	04/18/03	49										
6A80003860	*ACD Mechanical Subsys Mass Property Testing	3	04/21/03	04/23/03	49										
6A80005220	*ACD Mechanical Subsys Vibration Testing	10	04/24/03	05/07/03	49										
6A80006630	ACD Mech Subsys Vibe Test Complete	0		05/07/03	49										
6A80005230	*ACD Mechanical Subsys Acoustics Testing	5	05/08/03	05/14/03	49										
6A80005240	*ACD Mechanical Subsys Thermal Cycle Test	9	05/15/03	05/28/03	49										
6A80005250	*ACD Mechanical Subsys De-integr (Rmv Mass Sims)	6	05/29/03	06/05/03	49										
4.1.6.4 BAE ELECTRONICS ASSEMBLY (BEA)															
6A80003670	*Flight Base Frame Delivery	1	03/19/03	03/19/03	49										
59															
4.1.6.3 TILE SHELL ASSEMBLY (TSA)															
6A80002560	*Flight Shell Procurement Spec & Award	30	09/23/02*	11/01/02	59										

Act ID	Activity Description	Dur	Start	Finish	Total Float	Fiscal Year									
						FY01	FY02	FY03	FY04	FY05	FY06				
4.1.6.3 TILE SHELL ASSEMBLY (TSA)															
6A80003360	*Flight Shell Fabrication/Assembly	66	11/04/02*	02/18/03	59										
6A80003610	*Flight Shell Delivery/Shipping	5	02/19/03	02/25/03	59										
6A80003640	Flight Shell Delivered to GSFC	0		02/25/03	59										
6A80003620	*Flight Shell Strength Testing Upon Delivery	6	02/26/03	03/05/03	59										
6A80005210	*TSA Mech Subsystem Integr (Install Mass Sims)	20	03/06/03	04/02/03	59										
62															
4.1.6.9 MISSION INTEGRATION & TEST SUPPORT															
6A80004330	Spacecraft I&T Support (LAT RFI to S/C)	187	03/31/05*	12/23/05	62										
6A80004360	(L-90d) Ship Spacecraft to Launch Site	0	01/03/06*		62										
66															
4.1.6.B GROUND SUPPORT FACILITIES & EQUIPMENT															
6A80005390	*ACD Mass Simulator	45	09/29/03*	12/02/03	66										
6A80003330	*Shipping Container Testing	19	12/03/03	01/07/04*	66										
6A80003450	ACD Shipping Container Testing Complete	0		01/07/04	66										
67															
4.1.6.3 TILE SHELL ASSEMBLY (TSA)															
6A80003480	*Flight TDA Tiedown Fabrication & Assembly	66	12/02/02*	03/14/03	67										
68															
4.1.6.3 TILE SHELL ASSEMBLY (TSA)															
6A90000090	ND: Flight Grid fr Mechanical for Fit Test	0		05/08/03*	68										
69															
4.1.6.B GROUND SUPPORT FACILITIES & EQUIPMENT															
6A80005400	*Requirements Definition	30	06/03/02*	07/15/02	69										
6A80005410	*Design and Analysis	80	07/09/02	10/29/02	69										
6A80005420	*Fabrication	69	10/30/02	02/18/03	69										
6A80005430	*Delivery	1	02/19/03	02/19/03	69										
6A80006860	Shield/Blanket Mass Sim Delivered to GSFC	0		02/19/03	69										
Run Date 12/12/01 13:58						GLAST - LAT PROJECT Critical Activities (TF < 80 days)						Sheet 50			
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Act ID	Activity Description	Dur	Start	Finish	Total Float	Fiscal Year					
						FY01	FY02	FY03	FY04	FY05	FY06
4.1.6.B GROUND SUPPORT FACILITIES & EQUIPMENT											
6A80005440	*Vibration Testing	10	02/20/03	03/05/03	69						
6A80005450	*Thermal Hardware Installation	10	03/06/03	03/19/03	69						
70											
4.1.6.7 H/W-S/W INTEGRATION & TEST											
6A80006850	Flight ACD TB/TVAC Tests Complete	0		12/12/03	70						
72											
4.1.6.3 TILE SHELL ASSEMBLY (TSA)											
6A80003490	Flight TDA Tiedown Fab/Assy Complete	0		03/14/03	72						



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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	
4.1.6 ANTICOINCIDENCE DETECTOR											
DG GSFC											
	FY_FTE	PLANNED	0.0	0.0	8.5	20.6	14.9	6.1	5.7	2.9	58.6
CAPW[3] Totals:		PLANNED	0.0	0.0	8.5	20.6	14.9	6.1	5.7	2.9	58.6