

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01 FY02 FY03 FY04 FY05 FY06 FY07											
4 GLAST INSTRUMENTS																				
4.1 GLAST LAT PROJECT																				
4.1.1 INSTRUMENT MANAGEMENT																				
4.1.1.1 PROJECT MANAGEMENT																				
1M1000160	DL	Project Management: SLAC FY 2000	127	03APR00A	29SEP00A		A	100												
1M1000170	DH	Project Management: HEPL FY 2000	127	03APR00A	29SEP00A		A	100												
1M1000690		Start of Project	0		03APR00A			100												
1M1000780		DOE Funding Available: FY 2001	0	02OCT00A				100												
1M1000840		NASA Funding Availability: FY 2001	0	02OCT00A				100												
1M1000950	DH	Principal Investigator: HEPL Q1 - Q3 FY 2001	184	02OCT00A	29JUN01A		A	100												
1M1000560	DL	Project Management: SLAC FY 2001	247	02OCT00A	28SEP01A		A	100												
1M1000580	DH	Project Management: HEPL FY 2001	247	02OCT00A	28SEP01A		A	100												
1M1000940	DH	Principal Investigator: HEPL Q4 FY 2001	63	02JUL01A	28SEP01A		A	100												
1M1BF00000		Launch Balloon Flight	0		01AUG01A			100												
1M1000790		DOE Funding Available: FY 2002	0	01OCT01A				100												
1M1000850		NASA Funding Availability: FY 2002	0	01OCT01A				100												
1M1001070	DL	(PR) Consultant - B. Marcellini - FY '02	1	01OCT01A	01OCT01A		A	100												
1M1000951	DH	Principal Investigator: HEPL Q1 - Q3 FY 2002	183*	01OCT01A	28JUN02		A	13												
1M1000570	DL	Project Management: SLAC FY 2002	247*	01OCT01A	30SEP02		A	9												
1M1000600	DH	Project Management: HEPL FY 2002	247*	01OCT01A	30SEP02		A	9												
1M1001020	DL	Management Consulting: B. Marcellini - FY '02	247*	01OCT01A	30SEP02	471	A	9												
1M1000490		Com Card for TKR EM Function Test-Elec to TKR	0		16OCT01A			100												
1M1001080	DL	(PR) Consulting Services: ISP - FY '02	1	01NOV01	01NOV01	616	A	0												
1M1000930	DH	Principal Investigator: HEPL Q2 FY 2002	62	01NOV01	08FEB02	1,025	A	0												
1M1002020	DL	Management Consulting: ISP - FY '02	223*	02NOV01	30SEP02	616	A	0												
1M75000010		VME Com Card (TEM Sim)-from Elec to CAL	0		05NOV01*	0		0												
1M1000100		Instrument Preliminary Design Review	0		07JAN02*	0		0												
1M1000500		(2) Mini MCM's from Tracker to Elec	0		07FEB02*	0		0												
1M7941300		(1) Prototype Electronics Module (Elec to ACD)	0		15MAR02*	0		0												
1M7941360		EGSE Workstation / Software #1 (I&T to ACD)	0		15MAR02*	0		0												
1M1000970		MGSE Requirements for ACD (from I&T to ACD)	0		22MAR02*	0		0												
1M1001010		SLAC Facilities Specification (from I&T to ACD)	0		22MAR02*	0		0												
1M57000010		VM Versions of CAL AFPE-CAL to Elec	0		12APR02*	0		0												
1M7941140		EGSE EM1 H/W Release-Elec to I&T	0		22APR02*	0		0												
1M7941200		Online System Spec from I&T to IOC	0		01MAY02*	0		0												
1M1001110		Calorimeter Calibration Prototype Coding SAS-I&T	0		15MAY02*	0		0												
1M57000030		1st Major Release of Sim/Recon (SAS to I & T)	0		31MAY02*	0		0												
1M7941350		High Voltage Power Supply (Bd & Prts)-ACD to Elec	0		03JUN02*	0		0												
1M75000020		Pre-EM TEM-from Elec to CAL	0		14JUN02*	0		0												
1M1000900		Electronics Pre-Eng Model from Elec to Tracker	0		19JUN02*	0		0												
1M1001100		ACD Pulse Height Histogram (SAS to I & T)	0		21JUN02*	0		0												
1M1001120		Tracker Dead/Noisy Strips (SAS to I & T)	0		21JUN02*	0		0												
1M7941310		ACD Electronics Module - EM1 (Elec to ACD)	0		01JUL02*	0		0												
1M7941330		Test/Screening Board w/ASIC for EM1 -ACD to Elec	0		01JUL02*	0		0												
1M7941370		EGSE Workstation / Software #2 (I&T to ACD)	0		01JUL02*	0		0												
1M1000941	DH	Principal Investigator: HEPL Q4 FY 2002	64	01JUL02*	30SEP02	0	A	0												
1M1000550		(9) MCM's from Tracker to Elec	0		02JUL02*	0		0												
1M57000020		CAL AFPE Engr Model-CAL to Elec	0		01AUG02*	0		0												
1M1000110		Instrument Critical Design Review	0		05AUG02*	0		0												
1M1001170	DL	(PR) Consultant - B. Marcellini - FY '03	1	01OCT02	01OCT02	0	A	0												
1M1001180	DL	(PR) Consulting Services: ISP - FY '03	1	01OCT02	01OCT02	615	A	0												
1M1000800		DOE Funding Available: FY 2003	0	01OCT02*				0												
1M1000860		NASA Funding Availability: FY 2003	0	01OCT02*				0												
1M1000952	DH	Principal Investigator: HEPL Q1 - Q3 FY 2003	183	01OCT02	30JUN03	0	A	0												
1M1000610	DH	Project Management: HEPL FY 2003	247	01OCT02	30SEP03	0	A	0												
1M1001030	DL	Management Consulting: B. Marcellini - FY '03	247	01OCT02	30SEP03	0	A	0												
1M1100000	DL	Project Management: SLAC FY 2003	247	01OCT02	30SEP03	0	A	0												
1M1002030	DL	Management Consulting: ISP - FY '03	247	02OCT02	01OCT03	615	A	0												
1M1000980		Doc defining Backsplash Test Model (ACD to I&T)	0		03JAN03*	0		0												
1M7941150		EGSE EM2 Release-Elec to I&T	0		15JAN03*	0		0												
1M1000920		EM2 TEM for Qual Towers A,B from Elec to Tracker	0		16JAN03	93		0												
1M1001130		Tracker Tower & Tray Alignment (SAS to I&T)	0		22JAN03*	0		0												
1M7941320		(2) ACD Electronics Modules - EM2 (Elec to ACD)	0		03MAR03*	0		0												
1M7941340		(11) FREE Bds & ASICS, (1) Fully Tested Bd - EM2	0		03MAR03*	0		0												
1M7941380		EGSE Workstation / Software #3 (I&T to ACD)	0		03MAR03*	0		0												
1M75000000		(6) EM2 TEM-from Elec to CAL	0		17MAR03*	0		0												
1M1000910		(36) MCM's for EM2 from Tracker to Elec	0		25MAR03*	0		0												
1M1000960		Flight Grid Ready for ACD Fit Test-(Mech to ACD)	0		08MAY03*	0		0												
1M7941160		EGSE Qual Unit Release-Elec to I&T	0		16MAY03*	0		0												
1M1000942	DH	Principal Investigator: HEPL Q4 FY 2003	64	01JUL03*	30SEP03	0	A	0												
1M1000200		Tracker Modules A & B RFI (for Calibration)	0		15AUG03*	0		0												
1M1000210		Calorimeter Modules A & B RFI (for Calibration)	0		15AUG03*	0		0												
1M1000730		1st Two Towers Ready for Calibration	0		15AUG03*	0		0												
1M7941120		EM2 TEM Assy A,B-Elec to I&T	0		15AUG03*	0		0												
1M7941130		EM2 TEM PS Assy A,B-Elec to I&T	0		15AUG03*	0		0												
1M59000000		EM from CAL to I&T	0		29AUG03*	0		0												
1M1001270	DL	(PR) Consultant - B. Marcellini - FY '04	1	01OCT03	01OCT03	0	A	0												
1M1000810		DOE Funding Available: FY 2004	0	01OCT03*				0												
1M1000870		NASA Funding Availability: FY 2004	0	01OCT03*				0												
1M1000953	DH	Principal Investigator: HEPL Q1 - Q3 FY 2004	184	01OCT03	30JUN04	0	A	0												
1M1000620	DH	Project Management: HEPL FY 2004	248	01OCT03	30SEP04	0	A	0												
1M1001040	DL	Management Consulting: B. Marcellini - FY '04	248	01OCT03	30SEP04	0	A	0												
1M1100010	DL	Project Management: SLAC FY 2004																		

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year									
									FY01	FY02	FY03	FY04	FY05	FY06	FY07			
1M1000220		Tracker Modules 1 & 2 RFI (for Calibration)	0		03NOV03*	0		0										◆Tracker Modules 1 & 2 RFI (for Calibra
1M1000230		Calorimeter Modules 1 & 2 RFI (for Calibration)	0		03NOV03*	0		0										◆Calorimeter Modules 1 & 2 RFI (for Cal
1M1000990		ACD Calibration Test Unit at SLAC, Tested & RFI	0		03NOV03*	0		0										◆ACD Calibration Test Unit at SLAC, Tes
1M7941060		Flight TEM PS Assy 1,2-Elec to I&T	0		03NOV03*	0		0										◆Flight TEM PS Assy 1,2-Elec to I&T
1M7941170		EGSE Flight Unit Release-Elec to I&T	0		05NOV03*	0		0										◆EGSE Flight Unit Release-Elec to I&T
1M1000240		Flight Grid RFI-Mech to I&T	0		02JAN04*	0		0										◆Flight Grid RFI-Mech to I&T
1M1000250		Flight Tracker Tower 3, 4 RFI	0		02JAN04*	0		0										◆Flight Tracker Tower 3, 4 RFI
1M1000400		Flight Calorimeter Tower 3, 4 RFI	0		02JAN04*	0		0										◆Flight Calorimeter Tower 3, 4 RFI
1M1000740		Start LAT Integration	0		02JAN04*	0		0										◆Start LAT Integration
1M7941050		Flight TEM Assy 1,2-Elec to I&T	0		14JAN04*	0		0										◆Flight TEM Assy 1,2-Elec to I&T
1M1000260		Flight Tracker Tower 5, 6 RFI	0		15JAN04*	0		0										◆Flight Tracker Tower 5, 6 RFI
1M1000390		Flight Calorimeter Tower 5, 6 RFI	0		15JAN04*	0		0										◆Flight Calorimeter Tower 5, 6 RFI
1M7941210		Calibration Unit Beam Test from I&T to IOC	0		15JAN04*	0		0										◆Calibration Unit Beam Test from I&T
1M7940910		Flight TEM Assy 3,4-Elec to I&T	0		16JAN04*	0		0										◆Flight TEM Assy 3,4-Elec to I&T
1M7940920		Flight TEM PS Assy 3,4-Elec to I&T	0		16JAN04*	0		0										◆Flight TEM PS Assy 3,4-Elec to I&T
1M1000270		Flight Tracker Tower 7, 8 RFI	0		29JAN04*	0		0										◆Flight Tracker Tower 7, 8 RFI
1M1000380		Flight Calorimeter Tower 7, 8 RFI	0		29JAN04*	0		0										◆Flight Calorimeter Tower 7, 8 RFI
1M1001000		ACD Test Scripts (from ACD to I&T)	0		02FEB04*	0		0										◆ACD Test Scripts (from ACD to I&T)
1M7940940		Flight TEM PS Assy 5,6-Elec to I&T	0		02FEB04*	0		0										◆Flight TEM PS Assy 5,6-Elec to I&T
1M1000280		Flight Tracker Tower 9, 10 RFI	0		12FEB04*	0		0										◆Flight Tracker Tower 9, 10 RFI
1M1000370		Flight Calorimeter Tower 9, 10 RFI	0		12FEB04*	0		0										◆Flight Calorimeter Tower 9, 10 RFI
1M7940950		Flight TEM Assy 7,8-Elec to I&T	0		17FEB04*	0		0										◆Flight TEM Assy 7,8-Elec to I&T
1M7940960		Flight TEM PS Assy 7,8-Elec to I&T	0		17FEB04*	0		0										◆Flight TEM PS Assy 7,8-Elec to I&T
1M7940930		Flight TEM Assy 5,6-Elec to I&T	0		20FEB04*	0		0										◆Flight TEM Assy 5,6-Elec to I&T
1M1000290		Flight Tracker Tower 11, 12 RFI	0		26FEB04*	0		0										◆Flight Tracker Tower 11, 12 RFI
1M1000360		Flight Calorimeter Tower 11, 12 RFI	0		26FEB04*	0		0										◆Flight Calorimeter Tower 11, 12 RFI
1M7940970		Flight TEM Assy 9,10-Elec to I&T	0		02MAR04*	0		0										◆Flight TEM Assy 9,10-Elec to I&T
1M7940980		Flight TEM PS Assy 9, 10-Elec to I&T	0		02MAR04*	0		0										◆Flight TEM PS Assy 9, 10-Elec to I&T
1M1000300		Flight Tracker Tower 13, 14 RFI	0		10MAR04*	0		0										◆Flight Tracker Tower 13, 14 RFI
1M1000350		Flight Calorimeter Tower 13, 14 RFI	0		10MAR04*	0		0										◆Flight Calorimeter Tower 13, 14 RFI
1M7940990		Flight TEM Assy 11, 12-Elec to I&T	0		12MAR04*	0		0										◆Flight TEM Assy 11, 12-Elec to I&T
1M7941000		Flight TEM PS Assy 11, 12-Elec to I&T	0		12MAR04*	0		0										◆Flight TEM PS Assy 11, 12-Elec to I&T
1M1000310		Flight Tracker Tower 15, 16 RFI	0		24MAR04*	0		0										◆Flight Tracker Tower 15, 16 RFI
1M1000340		Flight Calorimeter Tower 15, 16 RFI	0		24MAR04*	0		0										◆Flight Calorimeter Tower 15, 16 RFI
1M7941010		Flight TEM Assy 13, 14-Elec to I&T	0		26MAR04*	0		0										◆Flight TEM Assy 13, 14-Elec to I&T
1M7941020		Flight TEM PS Assy 13,14-Elec to I&T	0		26MAR04*	0		0										◆Flight TEM PS Assy 13,14-Elec to I&T
1M7941030		Flight TEM Assy 15, 16-Elec to I&T	0		01APR04*	0		0										◆Flight TEM Assy 15, 16-Elec to I&T
1M7941040		Flight TEM PS Assy 15,16-Elec to I&T	0		01APR04*	0		0										◆Flight TEM PS Assy 15,16-Elec to I&T
1M1000320		Flight Tracker Tower 1, 2 RFI	0		26APR04*	0		0										◆Flight Tracker Tower 1, 2 RFI
1M1000330		Flight Calorimeter Tower 1,2 RFI from I&T to I&T	0		26APR04*	0		0										◆Flight Calorimeter Tower 1,2 RFI
1M1000410		ACD Flight Unit at SLAC, Tested/Inspected & RFI	0		26APR04*	0		0										◆ACD Flight Unit at SLAC, Tested
1M7941070		Flight ICM/GLT-Elec to I&T	0		26APR04*	0		0										◆Flight ICM/GLT-Elec to I&T
1M7941080		Flight SIU-Elec to I&T	0		26APR04*	0		0										◆Flight SIU-Elec to I&T
1M7941090		Flight Event Processor Units-Elec to I&T	0		26APR04*	0		0										◆Flight Event Processor Units-Elec to I&T
1M7941100		Flight ACD Module-Elec to I&T	0		26APR04*	0		0										◆Flight ACD Module-Elec to I&T
1M7941110		Flight Harness-Elec to I&T	0		26APR04*	0		0										◆Flight Harness-Elec to I&T
1M941710		X-LAT Thermal Plate RFI from Mech to I&T	0		26APR04*	0		0										◆X-LAT Thermal Plate RFI from Me
1M1000943	DH	Principal Investigator: HEPL Q4 FY 2004	64	01JUL04*	30SEP04	0	A	0										Principal Investigator: HEPL Q4 FY 2004
1M9440900		LAT Ready for Enviromental Testing-I&T to Mech	0		07JUL04*	0		0										◆LAT Ready for Enviromental T
1M1000700		Pre Environmental Testing Review	0		09JUL04*	0		0										◆Pre Environmental Testing Review
1M941700		Integrate LAT on Vibe Mount-I&T to Mech	0		12JUL04*	0		0										◆Integrate LAT on Vibe Mount-I&T to Mech
1M7941220		LAT EMI/EMC Test from I&T to IOC	0		09AUG04*	0		0										◆LAT EMI/EMC Test from I&T to IOC
1M7941230		LAT Vib/Acoustic Test from I&T to IOC	0		30AUG04*	0		0										◆LAT Vib/Acoustic Test from I&T to IOC
1M941800		Integrate LAT on Thermal-Vac Mount-I&T to Mech	0		14SEP04*	0		0										◆Integrate LAT on Thermal-Va
1M7941240		LAT Thermal Test from I&T to IOC	0		21SEP04*	0		0										◆LAT Thermal Test from I&T to IOC
1M1001370	DL	(PR) Consultant - B. Marcellini - FY '05	1	01OCT04	01OCT04	0	A	0										(PR) Consultant - B. Marcellini - FY '05
1M1000820		DOE Funding Available: FY 2005	0	01OCT04*		0		0										◆DOE Funding Available: FY 2005
1M1000880		NASA Funding Availability: FY 2005	0	01OCT04*		0		0										◆NASA Funding Availability: FY 2005
1M1000954	DH	Principal Investigator: HEPL Q1 - Q3 FY 2005	184	01OCT04	30JUN05	0	A	0										Principal Investigator: HEPL Q1 - Q3 FY 2005
1M1000590	DH	Project Management: HEPL FY 2005	248	01OCT04	30SEP05	0	A	0										Project Management: HEPL FY 2005
1M1000630	DL	Project Management: SLAC FY 2005	248	01OCT04	30SEP05	0	A	0										Project Management: SLAC FY 2005
1M1001050	DL	Management Consulting: B. Marcellini - FY '05	248	01OCT04	30SEP05	0	A	0										Management Consulting: B. Marcellini - FY '05
1M7941250		LAT Performance Test from I&T to IOC	0		26OCT04*	0		0										◆LAT Performance Test from I&T to IOC
1M941720		Radiators ready for Mission I&T from Mech to I&T	0		01DEC04*	0		0										◆Radiators ready for Missio
1M1000120		Instrument Pre-Ship Review	0		07JAN05*	0		0										◆Instrument Pre-Ship Review
1M1000130		LAT Ready to Ship	0		01MAR05*	0		0										◆LAT Ready to Ship
1M1000140		LAT Ready for Integration (RFI) to Spacecraft	0		22MAR05*	0		0										◆LAT Ready for Integration (RFI) to Spacecraft
1M7941260		LAT Observatory TV Test from SCO to IOC	0		20APR05*	0		0										◆LAT Observatory TV Test from SCO to IOC
1M1000944	DH	Principal Investigator: HEPL Q4 FY 2005	64	01JUL05*	30SEP05	0	A	0										Principal Investigator: HEPL Q4 FY 2005
1M7941270		Ground System Interface Test from SCO to IOC	0		16SEP05*	0		0										◆Ground System Interface Test from SCO to IOC
1M1001470	DL	(PR) Consultant - B. Marcellini - FY '06	1	03OCT05	03OCT05	0	A	0										(PR) Consultant - B. Marcellini - FY '06
1M1000830		DOE Funding Available: FY 2006	0	03OCT05*		0		0										◆DOE Funding Available: FY 2006
1M1000890		NASA Funding Availability: FY 2006	0	03OCT05*		0		0										◆NASA Funding Availability: FY 2006
1M1000710	DL	Project Management: SLAC FY 2006	120	03OCT05	31MAR06	0	A	0										Project Management: SLAC FY 2006
1M1000720	DH	Project Management: HEPL FY 2006	120	03OCT05	31MAR06	0	A	0										Project Management: HEPL FY 2006
1M1000955	DH	Principal Investigator: HEPL Q1 - Q2 FY 2006	120	03OCT05	31MAR06	0	A	0										Principal Investigator: HEPL Q1 - Q2 FY 2006
1M1001060	DL	Management Consulting: B. Marcellini - FY '06	120	03OCT05	31MAR06	0	A	0										Management Consulting: B. Marcellini - FY '06
1M7941280		Mission Sequence Test from SCO to IOC	0		17OCT05*	0		0										◆Mission Sequence Test from SCO to IOC
1M7941290		End-to-End Test from SCO to IOC	0		17JAN06*	0		0										◆End-to-End Test from SCO to IOC
1M10001																		

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01 FY02 FY03 FY04 FY05 FY06 FY07						
									Gantt Chart						
1M1001090	DL	(PR) Consulting Services: AIM - FY '02	1	01OCT01A	01OCT01A		A	100	▶ (PR) Consulting Services: AIM - FY '02						
1M1000680	DL	PMCS Development Process: FY 2002	79*	01OCT01A	31JAN02	368	A	29	▶ PMCS Development Process: FY 2002						
1M1000685	DL	Cost & Schedule Control Management: FY 2002	247*	01OCT01A	30SEP02	0	A	9	▶ Cost & Schedule Control Management: FY 2002						
1M1000520		Train Subsystem Managers	15	29NOV01A	23JAN02	374		0	▶ Train Subsystem Managers						
1M1000440		Establish Preliminary Project Baseline Schedule	0		06DEC01	0		0	▶ Establish Preliminary Project Baseline Schedule						
1M1000450		Establish Preliminary Project Baseline Cost	0		06DEC01	0		0	▶ Establish Preliminary Project Baseline Cost						
1M1000470		Status Report: October Data	0		06DEC01*	0		0	▶ Status Report: October Data						
1M1000460		Set Internal Project Baseline	0		14DEC01	0		0	▶ Set Internal Project Baseline						
1M1000540		DRAFT PMCS Procedures Manual	0		14DEC01*	9		0	▶ DRAFT PMCS Procedures Manual						
1M1000750	DL	PMCS Maintenance FY 2002	168	01FEB02	30SEP02	368	A	0	▶ PMCS Maintenance FY 2002						
1M1001190	DL	(PR) Consulting Services: AIM - FY '03	1	01OCT02	01OCT02	367	A	0	▶ (PR) Consulting Services: AIM - FY '03						
1M1000675	DL	Cost & Schedule Control Management: FY 2003	247	01OCT02	30SEP03	0	A	0	▶ Cost & Schedule Control Management: FY 2003						
1M1000760	DL	PMCS Maintenance FY 2003	247	02OCT02	01OCT03	367	A	0	▶ PMCS Maintenance FY 2003						
1M1001290	DL	(PR) Consulting Services: AIM - FY '04	1	01OCT03	01OCT03	367	A	0	▶ (PR) Consulting Services: AIM - FY '04						
1M1000665	DL	Cost & Schedule Control Management: FY 2004	248	01OCT03	30SEP04	0	A	0	▶ Cost & Schedule Control Management: FY 2004						
1M1000770	DL	PMCS Maintenance FY 2004	248	02OCT03	01OCT04	367	A	0	▶ PMCS Maintenance FY 2004						
1M1000655	DL	Cost & Schedule Control Management: FY 2005	248	01OCT04	30SEP05	0	A	0	▶ Cost & Schedule Control Management: FY 2005						
1M1000650	DL	Cost & Schedule Control Management: FY 2006	120	03OCT05	31MAR06	0	A	0	▶ Cost & Schedule Control Management: FY 2006						
4.1.1.3 INSTRUMENT SCIENTIST															
1M1000190		Instrument Scientist: FY 2000	127	03APR00A	29SEP00A			100	▶ Instrument Scientist: FY 2000						
1M1000660	DG	Instrument Scientist: FY 2001	247	02OCT00A	28SEP01A		A	100	▶ Instrument Scientist: FY 2001						
1M1130000	DG	Instrument Scientist: FY 2002	247*	01OCT01A	30SEP02	0	A	9	▶ Instrument Scientist: FY 2002						
1M1130020	DG	Instrument Scientist: FY 2003	247	01OCT02	30SEP03	0	A	0	▶ Instrument Scientist: FY 2003						
1M1130030	DG	Instrument Scientist: FY 2004	248	01OCT03	30SEP04	0	A	0	▶ Instrument Scientist: FY 2004						
1M1130040	DG	Instrument Scientist: FY 2005	248	01OCT04	30SEP05	0	A	0	▶ Instrument Scientist: FY 2005						
1M1130010	DG	Instrument Scientist: FY 2006	120	03OCT05	31MAR06	0	A	0	▶ Instrument Scientist: FY 2006						
4.1.1.4 SCIENCE PREPARATION															
1M1400030	DG	GSFC Science Preparation Budget FY 2000	120	03APR00A	29SEP00A		A	100	▶ GSFC Science Preparation Budget FY 2000						
1M1410000	DH	HEPL Science Preparation - FY 2000	127	03APR00A	29SEP00A		A	100	▶ HEPL Science Preparation - FY 2000						
1M1400050	DG	GSFC Science Preparation Budget FY 2001	247	02OCT00A	28SEP01A		A	100	▶ GSFC Science Preparation Budget FY 2001						
1M1410001	DH	HEPL Science Preparation - FY 2001	247	02OCT00A	28SEP01A		A	100	▶ HEPL Science Preparation - FY 2001						
1M1400010	DU	UCSC Science Preparation (7/01 thru 6/03)	493*	02JUL01A	30JUN03	0	A	17	▶ UCSC Science Preparation (7/01 thru 6/03)						
1M1400020	DG	GSFC Science Preparation FY '02	247*	01OCT01A	30SEP02	0	A	9	▶ GSFC Science Preparation FY '02						
1M1410020	DH	HEPL Science Preparation - FY 2002	247*	01OCT01A	30SEP02	0	A	9	▶ HEPL Science Preparation - FY 2002						
1M4N000000	DN	NRL Science Preparation - FY 2002	247*	01OCT01A	30SEP02	0	A	9	▶ NRL Science Preparation - FY 2002						
1M1400300	DG	GSFC Science Preparation FY '03	247	01OCT02	30SEP03	0	A	0	▶ GSFC Science Preparation FY '03						
1M1410030	DH	HEPL Science Preparation - FY 2003	247	01OCT02	30SEP03	0	A	0	▶ HEPL Science Preparation - FY 2003						
1M4N000010	DN	NRL Science Preparation - FY 2003	247	01OCT02	30SEP03	0	A	0	▶ NRL Science Preparation - FY 2003						
1M1400040	DU	UCSC Science Preparation (7/03 thru 3/06)	680	01JUL03	31MAR06	0	A	0	▶ UCSC Science Preparation (7/03 thru 3/06)						
1M1400400	DG	GSFC Science Preparation FY '04	248	01OCT03	30SEP04	0	A	0	▶ GSFC Science Preparation FY '04						
1M1410040	DH	HEPL Science Preparation - FY 2004	248	01OCT03	30SEP04	0	A	0	▶ HEPL Science Preparation - FY 2004						
1M4N000020	DN	NRL Science Preparation - FY 2004	248	01OCT03	30SEP04	0	A	0	▶ NRL Science Preparation - FY 2004						
1M1400500	DG	GSFC Science Preparation FY '05	248	01OCT04	30SEP05	0	A	0	▶ GSFC Science Preparation FY '05						
1M1410050	DH	HEPL Science Preparation - FY 2005	248	01OCT04	30SEP05	0	A	0	▶ HEPL Science Preparation - FY 2005						
1M4N000030	DN	NRL Science Preparation - FY 2005	248	01OCT04	30SEP05	0	A	0	▶ NRL Science Preparation - FY 2005						
1M1400600	DG	GSFC Science Preparation FY '06	120	03OCT05	31MAR06	0	A	0	▶ GSFC Science Preparation FY '06						
1M1410060	DH	HEPL Science Preparation - FY 2006	120	03OCT05	31MAR06	0	A	0	▶ HEPL Science Preparation - FY 2006						
1M4N000040	DN	NRL Science Preparation - FY 2006	120	03OCT05	31MAR06	0	A	0	▶ NRL Science Preparation - FY 2006						

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
4.1.2 SYSTEM ENGINEERING															
4.1.2.1 REQUIREMENTS MANAGEMENT & DESIGN INTEGRATION															
2S26010	DL	(PR) ONE Contract FY '02	1	01OCT01A	01OCT01A		E	100							
2S26011	DL	(PR) ONE Contract FY '03	1	01OCT02*	01OCT02	862	E	0							
2S26012	DL	(PR) ONE Contract FY '04	1	01OCT03*	01OCT03	615	E	0							
2S26013	DL	(PR) ONE Contract FY '05	1	01OCT04*	01OCT04	367	E	0							
2S26014	DL	(PR) ONE Contract FY '06	1	03OCT05*	03OCT05	119	E	0							
4.1.2.1.1 REQ'TS DEVELOPMENT, VALIDATION & VERIFICATION															
2S21100	DL	Level II (b)	78	01SEP00A	22DEC00A		A	100							
2S21110	DL	Level III	204	01SEP00A	29JUN01A		A	100							
2S21140	DL	Requirements Tracking / Reporting (Part I)	126	02JAN01A	29JUN01A		A	100							
2S21160	DL	Validation / Review (Part I)	126	02JAN01A	29JUN01A		A	100							
2S21120	DL	Level IV+ FY '01	189	02JAN01A	28SEP01A		A	100							
2S21150	DL	Requirements Tracking/Reporting (Part II) FY '01	63	02JUL01A	28SEP01A		A	100							
2S21170	DL	Validation Review (Part II) FY '01	63	02JUL01A	28SEP01A		A	100							
2S211ACT00	DL	Overrun	63	04SEP01A	28SEP01A		A	100							
2S21125	DL	Level IV+ FY '02	98*	01OCT01A	28FEB02	1,012	A	24							
2S21175	DL	Validation Review (Part II) FY '02 - '03	345*	01OCT01A	28FEB03	765	A	7							
2S21155	DL	Req'ts Tracking/Reporting (Part II) FY '02 - '06	1,110*	01OCT01A	31MAR06	0	A	2							
2S21180	DL	Verification / Review (Part I)	247	01MAR02*	28FEB03	0	A	0							
2S21190	DL	Verification / Review (Part II)	517	03MAR03	31MAR05	0	A	0							
2S21200	DL	Verification / Review (Part III)	248	01APR05	31MAR06	0	A	0							
4.1.2.1.2 DESIGN INTEGRATION															
2S21210	DL	Design Integration (Phase I) FY '01	127	02APR01A	28SEP01A		A	100							
2S21240	DL	Integration Analysis (Phase I) FY '01	84	01JUN01A	28SEP01A		A	100							
2S21215	DL	Design Integration (Phase I) FY '02	247*	01OCT01A	30SEP02	0	A	9							
2S21241	DL	Integration Analysis (Phase I) FY '02	247*	01OCT01A	30SEP02	0	A	9							
2S21245	DL	Integration Analysis (Phase II)	141	01OCT02	30APR03	0	A	0							
2S21220	DL	Design Integration (Phase II)	615	01OCT02	31MAR05	0	A	0							
2S21250	DL	Integration Analysis (Phase III)	474	01MAY03	31MAR05	0	A	0							
2S21230	DL	Design Integration (Phase III)	248	01APR05	31MAR06	0	A	0							
2S21260	DL	Integration Analysis (Phase IV)	248	01APR05	31MAR06	0	A	0							
4.1.2.3 SYSTEM ANALYSIS															
2S231000	DL	System Analysis FY '01	84	01JUN01A	28SEP01A		A	100							
2S26015	DL	(PR) ONE Contract FY '02	1	01OCT01A	01OCT01A		E	100							
2S231005	DL	System Analysis FY '02	322*	01NOV01	28FEB03	765	A	0							
2S26016	DL	(PR) ONE Contract FY '03	1	01OCT02*	01OCT02	862	E	0							
2S231010	DL	System Analysis FY '03	0		28FEB03	765	A	0							
4.1.2.4 QUALIFICATION & TRACKING															
4.1.2.4.1 PARTS QUALIFICATION															
2S241000	DL	Qualified Material / Parts List (Phase I)	168	01FEB02*	30SEP02	0	A	0							
2S241010	DL	Qualified Material / Parts List (Phase II)	79	01OCT02	31JAN03	0	A	0							
2S241020	DL	Qualified Material / Parts List (Phase III)	784	03FEB03	31MAR06	0	A	0							
4.1.2.4.2 PARTS TRACKING/REPORTING															
2S242000	DL	Manufacturer's Database (Phase I)	84	01FEB02*	31MAY02	0	A	0							
2S242010	DL	Construction Database (Phase I)	84	01FEB02*	31MAY02	0	A	0							
2S242040	DL	Construction Database (Phase II)	84	03JUN02	30SEP02	0	A	0							
2S242020	DL	Manufacturer's Database (Phase II)	947	03JUN02	31MAR06	0	A	0							
2S242050	DL	Construction Database (Phase III)	863	01OCT02	31MAR06	0	A	0							
4.1.2.5 RISK & RELIABILITY ANALYSIS															
2S26115	DL	(PR) ONE Contract FY '02	1	01OCT01A	01OCT01A		E	100							
2S26116	DL	(PR) ONE Contract FY '03	1	01OCT02*	01OCT02	862	E	0							
2S26117	DL	(PR) ONE Contract FY '04	1	01OCT03*	01OCT03	615	E	0							
2S26118	DL	(PR) ONE Contract FY '05	1	01OCT04*	01OCT04	367	E	0							
4.1.2.5.1 RISK ANALYSIS															
2S251000	DL	Risk Analysis FY '01	84	01JUN01A	28SEP01A		A	100							
2S251005	DL	Risk Analysis FY '02 - '05	862*	01OCT01A	31MAR05	248	A	3							
4.1.2.5.2 FAILURE ANALYSIS															
2S252000	DL	Failure Analysis FY '01	84	01JUN01A	28SEP01A		A	100							
2S252005	DL	Failure Analysis FY '02 - '03	345*	01OCT01A	28FEB03	765	A	7							
4.1.2.6 CONFIGURATION MGMT & DOCUMENT / DATA LIBRARY															
2S26120	DL	(PR) ONE Contract FY '02	1	01OCT01A	01OCT01A		E	100							
2S26121	DL	(PR) ONE Contract FY '03	1	01OCT02*	01OCT02	862	E	0							
4.1.2.6.1 CONFIGURATION MANAGEMENT															
2S261010	DL	Configuration Tracking / Reporting	1,216	01MAY01A	31MAR06	0	A	11							
2S261020	DL	Change Processing	1,216	01MAY01A	31MAR06	0	A	11							
2S261000	DL	Configuration Identification FY '01	63	02JUL01A	28SEP01A		A	100							
2S261030	DL	Configuration Data System FY '01	63	02JUL01A	28SEP01A		A	100							
2S261005	DL	Configuration Identification FY '02	98*	01OCT01A	28FEB02	1,012	A	24							
2S261035	DL	Configuration Data System FY '02 - '03	345*	01OCT01A	28FEB03	765	A	7							
4.1.2.6.2 DOCUMENT LIBRARY															
2S262000	DL	Document Library (Phase I)	119	01NOV00A	30APR01A		A	100							
2S262010	DL	Document Library (Phase II)	106	01MAY01A	28SEP01A		A	100							
2S262020	DL	Document Library (Phase III)	58	01OCT01A	21DEC01	0	A	40							
2S262030	DL	Document Library (Phase IV)	1,052	02JAN02	31MAR06	0	A	0							
4.1.2.6.3 DATA LIBRARY															
2S263020	DL	System Test Data (Phase I)	84	01JUN01A	28SEP01A		A	100							
2S263010	DL	Assembly Test Data	44	01JUL02*	30AUG02	883	A	0							
2S263040	DL	Manufacturer's Test Data	43	03SEP02*	31OCT02	840	A	0							
2S263030	DL	System Test Data (Phase II)	35	01NOV02*	23DEC02	805	A	0							
4.1.2.7 MANAGEMENT & PLANNING															
4.1.2.7.1 MANAGEMENT															
2S26020	DL	System Engineering Management: FY '00 - FY '01	267	01SEP00A	28SEP01A		A	100							
2S201031	DL	ACD Subsystem Requirements Review	0		20MAR01A			100							
2S201011	DL	Tracker Subsystem Requirements Review	0		22MAR01A			100							
2S201021	DL	Calorimeter Subsystem Requirements Review	0		28MAR01A			100							
2S201081	DL	Science Analysis Software Requirements Review	0		20APR01A			100							
2S201041	DL	Electronics & DAQ Subsystem Requirements Review	0		25APR01A			100							
2S201061	DL	Mechanical Subsystem Requirements Review	0		02MAY01A			100							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year							
									FY01	FY02	FY03	FY04	FY05	FY06	FY07	
2S201071	DL	IOC Requirements Review	0		03MAY01A			100								
2S201051	DL	Flight Software Requirements Review	0		30MAY01A			100								
2S201091	DL	Tracker PDR	0		19JUN01A			100								
2S201111	DL	Anticoincidence Detector PDR	0		25JUL01A			100								
2S201101	DL	Calorimeter PDR	0		27JUL01A			100								
2S201141	DL	Mechanical Systems PDR	0		15AUG01A			100								
2S201121	DL	Electronics & DAQ PDR	0		16AUG01A			100								
2S201131	DL	Flight Software PDR	0		16AUG01A			100								
2S201151	DL	IOC PDR	0		17AUG01A			100								
2S201161	DL	Science Analysis Software PDR	0		17AUG01A			100								
2S26000	DL	System Engineering Management: FY '02 - FY '06	1,110	01OCT01A	31MAR06	0	A	2								
2S201160	DL	PDR Submittals Due	0		04DEC01*	0		0								
2S201130	DL	Mechanical Systems CDR	0		22MAY02*	0		0								
2S201090	DL	Calorimeter CDR	0		05JUN02*	0		0								
2S201120	DL	Flight Software CDR	0		12JUN02*	0		0								
2S201070	DL	Tracker CDR	0		18JUN02*	0		0								
2S201110	DL	Electronics & DAQ CDR	0		20JUN02*	0		0								
2S201100	DL	Anticoincidence Detector CDR	0		26JUN02*	0		0								
2S201170	DL	CDR Submittals Due	0		12JUL02*	0		0								
2S201150	DL	Science Analysis Software CDR	0		04SEP02*	0		0								
2S201180		Sub System Qual Readiness Review-ACD	0		02JAN03*	0		0								
2S72000030		SS Qual Readiness Review IPS-ELEC	0		30JAN03*	0		0								
2S72000080		SS Qual Review IPS-ELEC	0		30JAN03*	0		0								
2S201300		Sub System Production Readiness Review-CAL	0		21FEB03*	0		0								
2S201200		Sub System Qual Readiness Review-CAL	0		03MAR03*	0		0								
2S72000130		SS RFI 1st Article IPS-ELEC	0		28MAR03*	0		0								
2S201240		Sub System Qual Review-ACD	0		31MAR03*	0		0								
2S201210		Sub System Qual Readiness Review-MECH	0		03APR03*	0		0								
2S201190		Sub System Qual Readiness Review-TRKR	0		12JUN03*	0		0								
2S201440		Sub System Production Readiness Review-TRKR	0		04AUG03*	0		0								
2S201250		Sub System Qual Review-TRKR	0		08AUG03*	0		0								
2S201320		Sub System-TRKR RFI's --1st Article	0		15AUG03*	0		0								
2S201330		Sub System-CAL RFI's --1st Article	0		15AUG03*	0		0								
2S201260		Sub System Qual Review-CAL	0		18SEP03*	0		0								
2S201230		SS Qual Readiness Review TEM TRKR/CAL-ELEC	0		22SEP03*	0		0								
2S201270		Sub System Qual Review-Grid-MECH	0		29SEP03*	0		0								
2S72000010		SS Qual Readiness Review Event Proc-ELEC	0		03OCT03*	0		0								
2S72000000		SS Qual Readiness Review ACD/GLT-ELEC	0		15OCT03*	0		0								
2S201340		Sub System-MECH-(GRID) RFI's	0		24OCT03*	0		0								
2S72000040		SS Qual Review TEM TRKR/CAL-ELEC	0		29OCT03*	0		0								
2S72000060		SS Qual Review Event Proc-ELEC	0		17NOV03*	0		0								
2S72000050		SS Qual Review ACD/GLT-ELEC	0		01DEC03*	0		0								
2S201140	DL	IOC CDR	0		04DEC03*	0		0								
2S72000020		SS Qual Readiness Review SIU-ELEC	0		05DEC03*	0		0								
2S201370		LAT Assembly Readiness Review	0		02JAN04*	0		0								
2S72000090		SS RFI 1st Article TEM TRKR/CAL-ELEC	0		14JAN04*	0		0								
2S72000070		SS Qual Review SIU-ELEC	0		22JAN04*	0		0								
2S72000100		SS RFI 1st Article ACD/GLT-ELEC	0		27FEB04*	0		0								
2S72000120		SS RFI 1st Article SIU-ELEC	0		31MAR04*	0		0								
2S72000110		SS RFI 1st Article Event Proc-ELEC	0		01APR04*	0		0								
2S201310		Sub System-ACD RFI's	0		12APR04*	0		0								
2S201380		System Test Readiness Review-incl Safety	0		06JUL04*	0		0								
2S201390		Pre-Environmental Readiness Review-incl Safety	0		20JUL04*	0		0								
2S201450		Sub System Qual Review-TCS-Mech	0		19NOV04*	0		0								
2S201400		Pre-Ship Review-incl Safety	0		07JAN05*	0		0								
2S201420		IOC Readiness Review	0		10JAN06*	0		0								
2S201410		Flight Readiness Review	0		01FEB06*	0		0								
2S201430		Operations Readiness Review	0		06MAR06*	0		0								
4.1.2.7.2 MANAGEMENT PLANS & DEVELOPMENT																
2S2S272000	DL	Management Plans / Development	141	02OCT00A	30APR01A		A	100								
4.1.2.7.3 TEST & VALIDATION PLANNING																
2S2S273000	DL	Test & Validation Management Plan	62	01FEB01A	30APR01A		A	100								
2S2S273010	DL	Test & Validation Planning	87	01MAY01A	31AUG01A		A	100								
2S2S273020	DL	Test & Validation Plan Maintenance	1,129	04SEP01A	31MAR06	0	A	4								

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year										
									FY01	FY02	FY03	FY04	FY05	FY06	FY07				
4.1.4 TRACKER																			
4T000055		Funding Available DOE FY 2001	0	02OCT00A				100											
4T000010		Tracker (TKR) Requirements Review	0		22MAR01A			100											
4T000005		Silicon -Strip Detector (SSD) Design Review	0	23APR01A				100											
4T000015		Tracker PDR	0		19JUN01A			100											
4T000065		Funding Available DOE FY 2002	0	01OCT01A				100											
4T000020		LAT Instrument PDR	0		07JAN02	1,048		0											
4T000025		Engineering Model (EM) assembly complete	0		01MAR02	184		0											
4T000030		Tracker CDR	0		18JUN02	279		0											
4T000035		LAT Instrument CDR	0		05AUG02	902		0											
4T000075		Funding Available DOE FY 2003	0	01OCT02*		863		0											
4T000040		Qual Modules A & B ready for Integration	0		15AUG03	0		0											
4T000085		Funding Available DOE FY 2004	0	01OCT03*		569		0											
4T000045		Flt. Modules 1 & 2 ready for Integ. (Cal unit)	0		03NOV03	0		0											
4T000050		flt. Modules 3 thru 16 ready for Integration	0		24MAR04	0		0											
4T000095		Funding Available DOE FY 2005	0	01OCT04*		368		0											
4T000105		Funding Available DOE FY 2006	0	03OCT05*		120		0											
4.1.4.1 TRACKER MANAGEMENT																			
4T10000001		UCSC Actuals for Tracker Management	1,481	03APR00A	28MAR06	3		27											
4.1.4.1.1 MANAGEMENT																			
4.1.4.1.1.1 TRACKER SYSTEM MANAGER (R.JOHNSON)																			
4T000300	DU	Tracker System Manager (R. Johnson)	1,480*	03APR00A	27MAR06	1	A	27											
4.1.4.1.1.2 TRACKER SYSTEM ENGINEER (T.BORDEN)																			
4T000400	DL	Tracker System Engineer (T. Borden)	856*	02OCT00A	24MAR04	0	A	31											
4.1.4.1.1.3 TRACKER PRODUCTION SUPERVISOR (O.MILLICAN)																			
4T000500	DL	Tracker Prod Sup (O. Millican)	247*	02OCT00A	28SEP01A		A	100											
4.1.4.1.1.4 INFN TRACKER MANAGEMENT																			
4T000870	FI	Mechanical Eng. (CERN)	812*	04DEC00A	23MAR04	502	A	28											
4T000700	FI	Italian Tracker Project Mgr (R. Bellazzini) F.T.	797*	02JAN01A	23MAR04	1	A	27											
4T000800	FI	Italian Tracker lead engineer (A. Brez) F.T.	797*	02JAN01A	23MAR04	1	A	27											
4T000860	FI	Researcher (Nicola) F.T.	797*	02JAN01A	23MAR04	502	A	27											
4T000840	FI	Post Doc (Francisco) F.T.	796*	03JAN01A	23MAR04	502	A	27											
4T000820	FI	Mechanical Engineer (Lussella) F.T.	735*	02APR01A	23MAR04	502	A	20											
4T000850	FI	Post Doc (Silvia) F.T.	715*	30APR01A	23MAR04	502	A	18											
4T000810	FI	Research Engineer-(Francisco) F.T.	714*	01MAY01A	23MAR04	502	A	18											
4T000830	FI	Mechanical Eng. (Ricardo) F.T.	627*	03SEP01A	23MAR04	502	A	7											
4T000880	FI	Mechanical Eng.	627*	03SEP01A	23MAR04	502	A	7											
4T000890	FI	Engineer - Enrico-part time (10%)	627*	03SEP01A	23MAR04	502	A	7											
4T000910	FI	Engineer Romall-(Francisco) (25%)	627*	03SEP01A	23MAR04	502	A	7											
4T000920	FI	Engineer - (Luca Latronico) (50%)	627*	03SEP01A	23MAR04	502	A	7											
4.1.4.1.1.5 QUALITY ASSURANCE (D.MARSH)																			
4T000900		Quality Assurance (D. Marsh)	982*	03APR00A	23MAR04	1		40											
4.1.4.1.1.7 SSD DESIGN TESTING & PROCUREMENT(T.OHSUGI)																			
4T001100	FJ	SSD Design Testing & Procurement (T. Ohsugi)	982*	03APR00A	23MAR04	1	A	40											
4.1.4.1.1.8 TKR SCHEDULING/ACCOUNTING/REPORTING																			
4T001200		TKR Scheduling/Accounting/Reporting	1,480*	03APR00A	27MAR06	1		27											
4.1.4.1.1.9 TRACKER REQUIREMENTS AND SPECIFICATIONS																			
4T001800		Set Up Tracker web page	37	03APR00A	23MAY00A			100											
4T001700		Tracker Interface Specification Documentation	264	03APR00A	24APR01A			100											
4T001400		Top Level Requirements	198	01MAY00A	16FEB01A			100											
4T001500		Mechanical/Thermal Requirements and Specificatio	198	01MAY00A	16FEB01A			100											
4T001600		Readout Electronics Requirements and Specificati	198	01MAY00A	16FEB01A			100											
4T001900		Implement Tracker Data Base	141	02AUG00A	01MAR01A			100											
4.1.4.1.1.A TRACKER LAYOUT																			
4T002100		Fix overall dimensions and fix tracker detector	43	03APR00A	01JUN00A			100											
4T002200		Fix SSD strip pitch	43	03APR00A	01JUN00A			100											
4T002300		Finalize tracker converter configuration (Study)	61	17JUL00A	10OCT00A			100											
4T002400		Tracker converter decision	36	11OCT00A	01DEC00A			100											
4.1.4.1.1.B TRACKER INSTRUMENT PDR																			
4T002500		Tracker Instrument PDR	0	19JUN01A				100											
4.1.4.1.1.C TRACKER INSTRUMENT CDR																			
4T002600		Tracker Instrument CDR	0	19JUN02*		63		0											
4.1.4.1.2 TRACKER SUPPORT PERSONNEL																			
4.1.4.1.2.1 PHYSICISTS																			
4T002900	DU	Engineer (G. Paliaga)	762	03APR00A	20APR01A		A	100											
4T002800	DU	Subsy Lead Sci (H. Sadrozinski) (UCSC Funded)	1,480*	03APR00A	27MAR06	1	A	27											
4T002902	DU	Engineer	714*	01MAY01A	23MAR04	1	A	18											
4.1.4.1.2.2 SLAC TRACKER TECH SUPPORT																			
4T003100	DL	Tracker Tech Support (SLAC)	745*	01OCT01A	05OCT04	362	A	3											
4T003200	DL	Tracker Tech Support (SLAC)	745*	01OCT01A	05OCT04	362	A	3											
4.1.4.1.2.3 UCSC TRACKER PHYSICISTS																			
4T003400	DU	Wilko Kroeger	1,481*	03APR00A	28MAR06	0	A	27											
4T003500	DU	Masa Hirayama	1,481*	03APR00A	28MAR06	0	A	27											
4.1.4.1.3 TRAVEL (SLAC/UCSC)																			
4T003900	DU	Foreign Meetings (UCSC)	982*	03APR00A	23MAR04	1	A	40											
4T003700	DU	Domestic Meetings (UCSC)	1,480*	03APR00A	27MAR06	1	A	27											
4T004000	DL	Foreign Meetings (SLAC)	855*	02OCT00A	23MAR04	1	A	32											
4T003800	DL	Domestic Meetings (SLAC)	1,353*	02OCT00A	27MAR06	1	A	20											
4.1.4.1.4 PROJECT SUPPORT																			
4.1.4.1.4.1 PROJECT SUPPORT AT SLAC																			
4T004300	DL	Office Supplies	1,353*	02OCT00A	27MAR06	1	A	20											
4T004400	DL	Computers, Printers, Software, etc	1,353*	02OCT00A	27MAR06	1	A	20											
4.1.4.1.4.2 PROJECT SUPPORT AT UCSC																			
4T004600		Office Supplies (UCSC Funded)	1,480*	03APR00A	27MAR06	1		27											
4T004700	DU	Computers, Printers, Software, etc	1,480*	03APR00A	27MAR06	1	A	27											
4T004800		Office Support Contracts (UCSC Funded \$7051)	1,480*	03APR00A	27MAR06	1		27											
4.1.4.2 RELIABILITY & QUALITY ASSURANCE																			
4T1050000	DL	SLAC Actual for Reliability & Quality Assurance	982	03APR00A	23MAR04	1	A	40											

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year						
									FY01	FY02	FY03	FY04	FY05	FY06	FY07
4.1.4.2.1 RELIABILITY ANALYSIS (BORDEN,NELSON)															
4T005000		HR Reliability Analysis (Borden, Nelson)	982*	03APR00A	23MAR04	1		40	HR Reliability Analysis (Borden, Nelson)						
4.1.4.2.2 QUALITY ASSURANCE PLANNING (BORDEN,NELSON)															
4T005100		HR Qual Assurance Planning (Borden, Nelson)	981*	04APR00A	23MAR04	1		40	HR Qual Assurance Planning (Borden, Nelson)						
4.1.4.3 TRAY SUB-ASSEMBLY															
4T101000	DL	SLAC Actual For Tray Sub-Assembly	1,265	03APR00A	11MAY05	219	A	31	SLAC Actual For Tray Sub-Assembly						
4.1.4.3.1 SILICON STRIP DETECTORS (SSD)															
4T005400		Finalize SSD Design	72	01JUN00A	08SEP00A			100	Finalize SSD Design						
4T005600		SSD Bidding process	66	30JUN00A	29SEP00A			100	SSD Bidding process						
4T005500		SSD Design Final	0	11SEP00A				100	SSD Design Final						
4T005700	DL	HPK Prototype run of flight layout	60	03OCT00A	25DEC00A		E	100	HPK Prototype run of flight layout						
4T005800		Test of HPK prototype run	19	04JAN01A	31JAN01A			100	Test of HPK prototype run						
4T005900		Preproduction Run and Production Ramp-up	67	17JAN01A	20APR01A			100	Preproduction Run and Production Ramp-up						
4T006000		Ready to Begin SSD Production	0	23APR01A				100	Ready to Begin SSD Production						
4.1.4.3.1.1 SSD PRODUCTION															
4T007100	FJ	QC SSD's	657*	02OCT00A	02JUN03	116	A	41	QC SSD's						
4T007200	DU	Detector long-term testing (UCSC)	855*	02OCT00A	23MAR04	1	A	32	Detector long-term testing (UCSC)						
4T006204	DL	(PR) SSD Lot A-B (SLAC)	1	01MAY01A	01MAY01A		E	100	(PR) SSD Lot A-B (SLAC)						
4T006202		SSD Lot A-B (Japan)	106*	01MAY01A	28SEP01A			100	SSD Lot A-B (Japan)						
4T006206	DL	(REC) SSD Lot A-B (SLAC)	1	28SEP01A	28SEP01A		E	100	(REC) SSD Lot A-B (SLAC)						
4T006200		SSD Lot A-B (INFN)	45	02JAN02*	07MAR02	301		0	SSD Lot A-B (INFN)						
4T006500		SSD Lot 5-6 (ITALY)	45	04MAR02*	03MAY02	270		0	SSD Lot 5-6 (ITALY)						
4T006300		SSD Lot 1-2 (Japan)	45	01APR02*	03JUN02	262		0	SSD Lot 1-2 (Japan)						
4T006600		SSD Lot 7-8 (JAPAN)	45	01MAY02*	03JUL02	253		0	SSD Lot 7-8 (JAPAN)						
4T006700		SSD Lot 9-10 (ITALY)	67	01JUL02*	03OCT02	202		0	SSD Lot 9-10 (ITALY)						
4T006800		SSD Lot 11-12 (JAPAN)	43	02OCT02*	03DEC02	182		0	SSD Lot 11-12 (JAPAN)						
4T006900		SSD Lot 13-14 (ITALY)	43	20NOV02*	31JAN03	151		0	SSD Lot 13-14 (ITALY)						
4T007000		SSD Lot 15-16 (JAPAN)	43	31JAN03*	02APR03	129		0	SSD Lot 15-16 (JAPAN)						
4T006400	DL	(PR) SSD Lot 3-4 (SLAC)	1	01OCT03	01OCT03	569	E	0	(PR) SSD Lot 3-4 (SLAC)						
4T006402	DL	(REC) SSD Lot 3-4 (SLAC)	1	08DEC03	08DEC03	569	E	0	(REC) SSD Lot 3-4 (SLAC)						
4.1.4.3.1.2 SSD TEST AND STORAGE															
4T007400		Design SSD Test, Storage Equip (ITALY)	34	15SEP00A	01NOV00A			100	Design SSD Test, Storage Equip (ITALY)						
4T007500	DL	Fab/Assy SSD Test, Storage Equip (SLAC)	112	02NOV00A	20APR01A		E	100	Fab/Assy SSD Test, Storage Equip (SLAC)						
4T007600		SSD Testing and Storage at (INFN)	487*	09OCT01A	29SEP03	116		4	SSD Testing and Storage at (INFN)						
4.1.4.3.2 TRAY MECHANICAL															
4.1.4.3.2.1 DESIGN PROTOTYPE AND TEST TRAY STRUCTURE (HYTEC)															
4.1.4.3.2.1.1 CLOSEOUT FRAME DEVELOPMENT (HYTEC)															
4T008100	DL	Particulate Pollution & Material Qualification I	66	02OCT00A	18DEC00A		E	100	Particulate Pollution & Material Qualification I						
4T008300	DL	Fabrication & Alignment Issues	123	02OCT00A	18JAN01A		E	100	Fabrication & Alignment Issues						
4T008000	DL	Refine Simplified Closeout Frame Design (Design)	23	30OCT00A	29NOV00A		E	100	Refine Simplified Closeout Frame Design (Design)						
4T008400	DL	Structural Integrity of Bonded Closeout Frame	49	16NOV00A	05FEB01A		E	100	Structural Integrity of Bonded Closeout Frame						
4T008200	DL	Threaded Insert Issues	41	30NOV00A	05FEB01A		E	100	Threaded Insert Issues						
4.1.4.3.2.1.2 STANDARD TRAY DEVELOPMENTS (HYTEC)															
4T008600	DL	Facesheet & Core material testing	83	02OCT00A	14DEC00A		E	100	Facesheet & Core material testing						
4T008800	DL	Bottom Tray Development	227	02OCT00A	29JUN01A		E	100	Bottom Tray Development						
4T008700	DL	Tray Sandwich Structure Development	151	22NOV00A	06JUL01A		E	100	Tray Sandwich Structure Development						
4T008900	DL	Top Tray Development	73	20JUL01A	31OCT01A		E	100	Top Tray Development						
4.1.4.3.2.2 THICK-CONVERTER TRAY DEVELOPMENT(INFN)															
4T009100		Dynamic FEM of the tray - preliminary results	149	03APR00A	25SEP00A			100	Dynamic FEM of the tray - preliminary results						
4T009200		Thermal model bi-dimensional analysis - prelimin	24	26SEP00A	27OCT00A			100	Thermal model bi-dimensional analysis - prelimin						
4T009300		Pre-selection of adhesives for payload	24	26SEP00A	27OCT00A			100	Pre-selection of adhesives for payload						
4T009400		Finalization of dynamic and thermal FEM	18	30OCT00A	22NOV00A			100	Finalization of dynamic and thermal FEM						
4T009600		Design prototype panels	30	30OCT00A	12DEC00A			100	Design prototype panels						
4T009500		Selection of 8 combinations of the payload	12	27NOV00A	12DEC00A			100	Selection of 8 combinations of the payload						
4T009800		Materials procurement	67	18DEC00A	30MAR01A			100	Materials procurement						
4T009700		Production of jigs and tool	67	18DEC00A	30JUL01A			100	Production of jigs and tool						
4T009900		Build prototype panels with simple closeouts and	64	02APR01A	30JUL01A			100	Build prototype panels with simple closeouts and						
4T010000		Tray alignment tests	145*	09APR01A	05OCT01A			100	Tray alignment tests						
4T010100		Vibration and thermal tests on prototype panels	26	04JUN01A	13JUN01A			100	Vibration and thermal tests on prototype panels						
4T010200		Update tray FEM and compare with tests	25	30JUL01A	17SEP01A			100	Update tray FEM and compare with tests						
4T010300		Final optimization of Facesheet and Core	24*	27AUG01A	24SEP01A			100	Final optimization of Facesheet and Core						
4T010400		Update CAD models and drawing package	10*	25SEP01A	08OCT01A			100	Update CAD models and drawing package						
4T010500		Check drawing package for E/M fabrication	10	09OCT01A	22OCT01A			100	Check drawing package for E/M fabrication						
4.1.4.3.2.3 THIN-CONVERTER PAYLOAD DEVELOPMENT(SLAC)															
4T011400		Build thermal test baseplate and baseline coupon	30	03JUL00A	11AUG00A			100	Build thermal test baseplate and baseline coupon						
4T010900		Strength tests on Silicon	30	02AUG00A	12SEP00A			100	Strength tests on Silicon						
4T010700		Select and acquire samples of adhesives	29	28AUG00A	06OCT00A			100	Select and acquire samples of adhesives						
4T010800		Acquire converter samples	37	28SEP00A	17NOV00A			100	Acquire converter samples						
4T011300	DL	Set up strain-gauge measurement equipment & envi	40	02OCT00A	30NOV00A		E	100	Set up strain-gauge measurement equipment & envi						
4T011000		Measure mechanical characteristics of adhesives	20	09OCT00A	03NOV00A			100	Measure mechanical characteristics of adhesives						
4T011100	DL	Thermal cycling tests of adhesive conductivity	10	06NOV00A	17NOV00A		E	100	Thermal cycling tests of adhesive conductivity						
4T011200		FEA analysis of thin converter payload + faceshe	10	20NOV00A	01DEC00A			100	FEA analysis of thin converter payload + faceshe						
4T011500		Specify and design thermal test coupons	30	20NOV00A	29DEC00A			100	Specify and design thermal test coupons						
4T011600	DL	Build thermal test coupons	20	10JAN01A	07FEB01A		E	100	Build thermal test coupons						
4T012300		Write procedures and make assembly drawings for	59	29JAN01A	29JUN01A			100	Write procedures and make assembly drawings for						
4T011700	DL	Thermal tests of coupons with various adhesives	28	08FEB01A	20MAR01A		E	100	Thermal tests of coupons with various adhesives						
4T011800		Compare FEA results with thermal tests	10	21MAR01A	03APR01A			100	Compare FEA results with thermal tests						
4T011900		Adhesives/converters/converter thickness/adhesiv	0	04APR01A				100	Adhesives/converters/converter thickness/adhesiv						
4T012000	DL	Fab Samples of Flight thin converter payload	20	04APR01A	11MAY01A		E	100	Fab Samples of Flight thin converter payload						
4T012100	DL	Test thin converter payload	15	15MAY01A	15JUN01A		E	100	Test thin converter payload						
4T012200		Document tests and conclusions for the payload d	29	19JUN01A	29JUN01A			100	Document tests and conclusions for the payload d						
4.1.4.3.2.4 THICK CONVERTER PAYLOAD DEVELOPMENT (INFN)															
4T012500		Select and acquire samples of adhesives	73	29AUG00A	12DEC00A			100	Select and acquire samples of adhesives						
4T012600		Acquire converter samples	73	29AUG00A	12DEC00A			100	Acquire converter samples						
4T012700		FEA of facesheet plus payload	60	31AUG00A	27NOV00A			100	FEA of facesheet plus payload						
4T012800		Define and construct candidate test coupons	33	13DEC00A	06FEB01A			100	Define and construct candidate test coupons						
4T012900		Thermal tests of coupons	10	01MAY01A	14MAY01A			100	Thermal tests of coupons						
4T013000		Compare FEA results with thermal tests	9	15MAY01A	25MAY01A			100	Compare FEA results with thermal tests						
4T013100		Converter material/converter thickness/adhesive	0	29MAY01A				100	Converter material/converter thickness/adhesive						

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY						
									FY01	FY02	FY03	FY04	FY05	FY06	FY07
4T013200		Document tests and conclusions for the payload d	30	29MAY01A	19JUL01A			100	▼ Document tests and conclusions for the payload d						
4.1.4.3.2.5 MECHANICAL EM TRAY PANEL FAB (INFN)															
4T013400		Detail EM Tray Pieces (Hytec)	44	04JUN01A	30JUL01A			100	▼ Detail EM Tray Pieces (Hytec)						
4T013501		Procure Close Outs	79*	30JUL01A	16NOV01	75		85	▼ Procure Close Outs						
4T013500		Procure Honeycomb, Converters, Bias circuit, Fac	42*	01AUG01A	21SEP01A			100	▼ Procure Honeycomb, Converters, Bias circuit, Fac						
4T013600	FI	Assemble EM Tray Structures	18	19NOV01	14DEC01	75	A	0	▽ Assemble EM Tray Structures						
4T013700		QC EM trays	5	17DEC01	21DEC01	75		0	▽ QC EM trays						
4.1.4.3.2.6 TRAY PANEL FABRICATION FIXTURES (INFN)															
4T013900		Update fixture designs for production	20	21JUN02	19JUL02	63		0	▽ Update fixture designs for production						
4T014000		Fab, Assemble Production Fixtures	20	22JUL02	16AUG02	63		0	▽ Fab, Assemble Production Fixtures						
4.1.4.3.2.7 FAB FLT INSTRUMENT TRAY PANEL STRUCTURES (INFN)															
4T014200	DL	Final Detail Flight Tray Composite Panels (Hytec)	2	19JUN02	20JUN02	63	E	0	▽ Final Detail Flight Tray Composite Panels (Hytec)						
4T014300		Procure Honeycomb & Face Sheets	40	21JUN02	16AUG02	63		0	▽ Procure Honeycomb & Face Sheets						
4T014400		Procure Close Outs	40	21JUN02	16AUG02	63		0	▽ Procure Close Outs						
4T014402		Ready to Fab Flight Tray Panels	0	16AUG02*		64		0	◇ Ready to Fab Flight Tray Panels						
4T014500		Assemble Flight Tray Panels	82	19AUG02*	13DEC02	63		0	▽ Assemble Flight Tray Panels						
4.1.4.3.3 TRAY ELECTRONICS															
4T1025010		SLAC Actual for Tray Electronics	868	03APR00A	11MAY05	219		31	▼ SLAC Actual for Tray						
4T1025000	DL	SLAC Actual for Tray Electronics	1,265	03APR00A	11MAY05	219	A	31	▼ SLAC Actual for Tray						
4T33I00000		Italian Actual for Tray Electronics	1,265	03APR00A	11MAY05	219		31	▼ Italian Actual for Tra						
4.1.4.3.3.1 TESTING OF PROTOTYPE ELECTRONICS															
4T014800		Noise and trigger measurements on the BTEM	203	03APR00A	08DEC00A			100	▼ Noise and trigger measurements on the BTEM						
4T014900		Detailed noise measurements with 1-chip board	104	01AUG00A	22DEC00A			100	▼ Detailed noise measurements with 1-chip board						
4.1.4.3.3.2 ELECTRONICS DESIGN REVIEWS (SLAC/UCSC)															
4.1.4.3.3.2.1 TRACKER FE PDRR															
4T015200		Prepare requirements Document	290	03APR00A	19JUN01A			100	▼ Prepare requirements Document						
4T015300		Prepare hierarchal set of block diagrams	290	03APR00A	19JUN01A			100	▼ Prepare hierarchal set of block diagrams						
4T015400		Prepare system description	290	03APR00A	19JUN01A			100	▼ Prepare system description						
4T015500		Prepare Preliminary Failure Analysis	290	03APR00A	19JUN01A			100	▼ Prepare Preliminary Failure Analysis						
4T015600		Prepare Interface Specifications Document	290	03APR00A	19JUN01A			100	▼ Prepare Interface Specifications Document						
4T015700		Prepare grounding and shielding plan	290	03APR00A	19JUN01A			100	▼ Prepare grounding and shielding plan						
4T015800		Prepare list of deliverables	290	03APR00A	19JUN01A			100	▼ Prepare list of deliverables						
4T015900		Prepare Preliminary Test Plan	290	03APR00A	19JUN01A			100	▼ Prepare Preliminary Test Plan						
4T016000		Prepare Cost Estimate	290	03APR00A	19JUN01A			100	▼ Prepare Cost Estimate						
4T016100		Prepare Schedule	290	03APR00A	19JUN01A			100	▼ Prepare Schedule						
4T016200		Hold the design review	1	14JUN01A	19JUN01A			100	X Hold the design review						
4T016300		Tracker FE PDRR Complete	0		19JUN01A			100	◆ Tracker FE PDRR Complete						
4.1.4.3.3.2.2 TRACKER GTFE PDRR															
4T016500		Prepare requirements Document	290	03APR00A	19JUN01A			100	▼ Prepare requirements Document						
4T016600		Prepare hierarchal set of block diagrams	290	03APR00A	19JUN01A			100	▼ Prepare hierarchal set of block diagrams						
4T016700		Prepare system description	290	03APR00A	19JUN01A			100	▼ Prepare system description						
4T016800		Prepare Preliminary Failure Analysis	290	03APR00A	19JUN01A			100	▼ Prepare Preliminary Failure Analysis						
4T016900		Prepare Interface Specifications Document	290	03APR00A	19JUN01A			100	▼ Prepare Interface Specifications Document						
4T017000		Prepare grounding and shielding plan	290	03APR00A	19JUN01A			100	▼ Prepare grounding and shielding plan						
4T017100		Prepare list of deliverables	290	03APR00A	19JUN01A			100	▼ Prepare list of deliverables						
4T017200		Prepare Preliminary Test Plan	290	03APR00A	19JUN01A			100	▼ Prepare Preliminary Test Plan						
4T017300		Prepare Cost Estimate	290	03APR00A	19JUN01A			100	▼ Prepare Cost Estimate						
4T017400		Prepare Schedule	290	03APR00A	19JUN01A			100	▼ Prepare Schedule						
4T017500		Hold the design review	1	19JUN01A	19JUN01A			100	X Hold the design review						
4T017600		Tracker GTFE PDRR Complete	0		19JUN01A			100	◆ Tracker GTFE PDRR Complete						
4.1.4.3.3.2.3 TRACKER GTRC PDRR															
4T017800		Prepare requirements Document	290	03APR00A	19JUN01A			100	▼ Prepare requirements Document						
4T017900		Prepare hierarchal set of block diagrams	290	03APR00A	19JUN01A			100	▼ Prepare hierarchal set of block diagrams						
4T018000		Prepare system description	290	03APR00A	19JUN01A			100	▼ Prepare system description						
4T018100		Prepare Preliminary Failure Analysis	290	03APR00A	19JUN01A			100	▼ Prepare Preliminary Failure Analysis						
4T018200		Prepare Interface Specifications Document	290	03APR00A	19JUN01A			100	▼ Prepare Interface Specifications Document						
4T018300		Prepare grounding and shielding plan	290	03APR00A	19JUN01A			100	▼ Prepare grounding and shielding plan						
4T018400		Prepare list of deliverables	290	03APR00A	19JUN01A			100	▼ Prepare list of deliverables						
4T018500		Prepare Preliminary Test Plan	290	03APR00A	19JUN01A			100	▼ Prepare Preliminary Test Plan						
4T018600		Prepare Cost Estimate	290	03APR00A	19JUN01A			100	▼ Prepare Cost Estimate						
4T018700		Prepare Schedule	290	03APR00A	19JUN01A			100	▼ Prepare Schedule						
4T018800		Hold the design review	1	19JUN01A	19JUN01A			100	X Hold the design review						
4T018900		Tracker GTRC PDRR Complete	0		19JUN01A			100	◆ Tracker GTRC PDRR Complete						
4.1.4.3.3.2.4 TRACKER FE ELECTRONICS PDR															
4T019100		Prepare Schematics	184*	01FEB01A	22OCT01A			100	▼ Prepare Schematics						
4T019200		Prepare hierarchal set of block diagrams	184*	01FEB01A	22OCT01A			100	▼ Prepare hierarchal set of block diagrams						
4T019300		Prepare system description	184*	01FEB01A	22OCT01A			100	▼ Prepare system description						
4T019400		Prepare Preliminary Failure Analysis	184*	01FEB01A	22OCT01A			100	▼ Prepare Preliminary Failure Analysis						
4T019500		Prepare Interface Specifications Document	184*	01FEB01A	22OCT01A			100	▼ Prepare Interface Specifications Document						
4T019600		Prepare grounding and shielding plan	184*	01FEB01A	22OCT01A			100	▼ Prepare grounding and shielding plan						
4T019700		Prepare list of deliverables	184*	01FEB01A	22OCT01A			100	▼ Prepare list of deliverables						
4T019800		Prepare Preliminary Test Plan	184*	01FEB01A	22OCT01A			100	▼ Prepare Preliminary Test Plan						
4T019900		Prepare Cost Estimate	184*	01FEB01A	22OCT01A			100	▼ Prepare Cost Estimate						
4T020000		Prepare Schedule	184*	01FEB01A	22OCT01A			100	▼ Prepare Schedule						
4T020100		Hold the design review	1	23OCT01A	23OCT01A			100	X Hold the design review						
4T020200		Tracker FE electronics PDR complete	0		23OCT01A			100	◆ Tracker FE electronics PDR complete						
4.1.4.3.3.2.5 TRACKER GTFE ELECTRONICS PDR															
4T020400		Prepare Schematics	184*	01FEB01A	22OCT01A			100	▼ Prepare Schematics						
4T020500		Prepare hierarchal set of block diagrams	184*	01FEB01A	22OCT01A			100	▼ Prepare hierarchal set of block diagrams						
4T020600		Prepare system description	184*	01FEB01A	22OCT01A			100	▼ Prepare system description						
4T020700		Prepare Preliminary Failure Analysis	184*	01FEB01A	22OCT01A			100	▼ Prepare Preliminary Failure Analysis						
4T020800		Prepare Interface Specifications Document	184*	01FEB01A	22OCT01A			100	▼ Prepare Interface Specifications Document						
4T020900		Prepare grounding and shielding plan	184*	01FEB01A	22OCT01A			100	▼ Prepare grounding and shielding plan						
4T021000		Prepare list of deliverables	184*	01FEB01A	22OCT01A			100	▼ Prepare list of deliverables						
4T021100		Prepare Preliminary Test Plan	184*	01FEB01A	22OCT01A			100	▼ Prepare Preliminary Test Plan						
4T021200		Prepare Cost Estimate	184*	01FEB01A	22OCT01A			100	▼ Prepare Cost Estimate						
4T021300		Prepare Schedule	184*	01FEB01A	22OCT01A			100	▼ Prepare Schedule						
4T021400		Hold the design review	1	23OCT01A	23OCT01A			100	X Hold the design review						
4T021500		Tracker GTFE PDR Complete	0		23OCT01A			100	◆ Tracker GTFE PDR Complete						

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01							FY02							FY03							FY04							FY05							FY06							FY07						
4.1.4.3.3.2.6 TRACKER GTRC ELECTRONICS PDR																																																									
4T021700		Prepare Schematics	184*	01FEB01A	22OCT01A			100	▲▲▲▲▲▲ Prepare Schematics																																																
4T021800		Prepare hierarchal set of block diagrams	184*	01FEB01A	22OCT01A			100	▲▲▲▲▲▲ Prepare hierarchal set of block diagrams																																																
4T021900		Prepare system description	184*	01FEB01A	22OCT01A			100	▲▲▲▲▲▲ Prepare system description																																																
4T022000		Prepare Preliminary Failure Analysis	184*	01FEB01A	22OCT01A			100	▲▲▲▲▲▲ Prepare Preliminary Failure Analysis																																																
4T022100		Prepare Interface Specifications Document	184*	01FEB01A	22OCT01A			100	▲▲▲▲▲▲ Prepare Interface Specifications Document																																																
4T022200		Prepare grounding and shielding plan	184*	01FEB01A	22OCT01A			100	▲▲▲▲▲▲ Prepare grounding and shielding plan																																																
4T022300		Prepare list of deliverables	184*	01FEB01A	22OCT01A			100	▲▲▲▲▲▲ Prepare list of deliverables																																																
4T022400		Prepare Preliminary Test Plan	184*	01FEB01A	22OCT01A			100	▲▲▲▲▲▲ Prepare Preliminary Test Plan																																																
4T022500		Prepare Cost Estimate	184*	01FEB01A	22OCT01A			100	▲▲▲▲▲▲ Prepare Cost Estimate																																																
4T022600		Prepare Schedule	184*	01FEB01A	22OCT01A			100	▲▲▲▲▲▲ Prepare Schedule																																																
4T022700		Hold the design review	1	23OCT01A	23OCT01A			100	⊗ Hold the design review																																																
4T022800		Tracker GTRC PDR Complete	0		23OCT01A			100	◆ Tracker GTRC PDR Complete																																																
4.1.4.3.3.2.7 TRACKER FE ELECTRONICS CDR																																																									
4T023000		Update documents from PDR	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update documents from PDR																																																
4T023100		Prepare new documents	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Prepare new documents																																																
4T023200		Update system description	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update system description																																																
4T023300		Update Preliminary Failure Analysis	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update Preliminary Failure Analysis																																																
4T023400		Update Interface Specifications Document	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update Interface Specifications Document																																																
4T023500		Update grounding and shielding plan	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update grounding and shielding plan																																																
4T023600		Update list of deliverables	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update list of deliverables																																																
4T023700		Update Test Plan	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update Test Plan																																																
4T023800		Update Cost Estimate	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update Cost Estimate																																																
4T023900		Update Schedule	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update Schedule																																																
4T024000		Hold the design review	1	04JUN02	04JUN02*	10		0	⊗ Hold the design review																																																
4T024100		Tracker FE electronics CDR complete	0		04JUN02*	10		0	◇ Tracker FE electronics CDR complete																																																
4.1.4.3.3.2.8 TRACKER GTFE ELECTRONICS CDR																																																									
4T024300		Update documents from PDR	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update documents from PDR																																																
4T024400		Prepare new documents	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Prepare new documents																																																
4T024500		Update system description	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update system description																																																
4T024600		Update Preliminary Failure Analysis	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update Preliminary Failure Analysis																																																
4T024700		Update Interface Specifications Document	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update Interface Specifications Document																																																
4T024800		Update grounding and shielding plan	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update grounding and shielding plan																																																
4T024900		Update list of deliverables	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update list of deliverables																																																
4T025000		Update Preliminary Test Plan	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update Preliminary Test Plan																																																
4T025100		Update Cost Estimate	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update Cost Estimate																																																
4T025200		Update Schedule	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update Schedule																																																
4T025300		Hold the design review	1	04JUN02*	04JUN02	10		0	⊗ Hold the design review																																																
4T025400		Tracker GTFE electronics CDR complete	0		04JUN02*	10		0	◇ Tracker GTFE electronics CDR complete																																																
4.1.4.3.3.2.9 TRACKER GTRC ELECTRONICS CDR																																																									
4T025600		Update documents from PDR	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update documents from PDR																																																
4T025700		Prepare new documents	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Prepare new documents																																																
4T025800		Update system description	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update system description																																																
4T025900		Update Preliminary Failure Analysis	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update Preliminary Failure Analysis																																																
4T026000		Update Interface Specifications Document	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update Interface Specifications Document																																																
4T026100		Update grounding and shielding plan	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update grounding and shielding plan																																																
4T026200		Update list of deliverables	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update list of deliverables																																																
4T026300		Update Preliminary Test Plan	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update Preliminary Test Plan																																																
4T026400		Update Cost Estimate	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update Cost Estimate																																																
4T026500		Update Schedule	147*	24OCT01A	03JUN02	10		4	▲▲▲▲▲▲ Update Schedule																																																
4T026600		Hold the design review	1	04JUN02	04JUN02*	10		0	⊗ Hold the design review																																																
4T026700		Tracker GTRC electronics CDR complete	0		04JUN02*	10		0	◇ Tracker GTRC electronics CDR complete																																																
4.1.4.3.3.3 DETECTOR BIAS CIRCUIT/CONVERTERS (SLAC/UCSC)																																																									
4T026900		Research vendors for bias-circuit/converter asse	103	25OCT00A	30MAR01A			100	▲▲▲▲▲▲ Research vendors for bias-circuit/converter asse																																																
4T027000	DL	Detail Kapton Bias Circuit	39	04APR01A	18JUL01A		E	100	▲▲▲▲▲▲ Detail Kapton Bias Circuit																																																
4T027100	DL	(PR) Prototype bias circuit/converter comb	1	19JUL01A	19JUL01A		E	100	⊗ (PR) Prototype bias circuit/converter comb																																																
4T027102	DL	(REC) Prototype bias circuit/converter combinati	1	15AUG01A	15AUG01A		E	100	⊗ (REC) Prototype bias circuit/converter combinati																																																
4T027200	DL	(PR) Procure proto bias circuits for the E/M	1	04SEP01A	04SEP01A		E	100	⊗ (PR) Procure proto bias circuits for the E/M																																																
4T027202	DL	(REC) Procure proto bias circuits for the E/M	1	05NOV01	05NOV01	102	E	0	⊗ (REC) Procure proto bias circuits for the E/M																																																
4T027300		Q.C., Clean bias circuits for E/M	5	06NOV01	12NOV01	102		0	⊗ Q.C., Clean bias circuits for E/M																																																
4T027301	DL	(PR) Flight-tray bias circuits & converters	1	25APR02	25APR02	184	E	0	⊗ (PR) Flight-tray bias circuits & converters																																																
4T027311	DL	(REC) Flight-tray bias circuits & converters	1	21JUN02	21JUN02	184	E	0	⊗ (REC) Flight-tray bias circuits & converters																																																
4.1.4.3.3.4 MCM BOARD DESIGN (SLAC/UCSC)																																																									
4T027500	DU	Preliminary development & proto integrated 90-de	178	03APR00A	29SEP00A		E	100	▲▲▲▲▲▲ Preliminary development & proto integrated 90-de																																																
4T027800		Mechanical specifications	35	06NOV00A	22DEC00A			100	▲▲▲▲▲▲ Mechanical specifications																																																
4T027700		Select board vendor	48	22NOV00A	08FEB01A			100	▲▲▲▲▲▲ Select board vendor																																																
4T027600	DL	Full-Size prototypes with dummy boards	110	18DEC00A	31MAY01A		E	100	▲▲▲▲▲▲ Full-Size prototypes with dummy boards																																																
4T027900	DL	Detail PC board	33	02JAN01A	16FEB01A		E	100	▲▲▲▲▲▲ Detail PC board																																																
4T028400	DL	Order connectors for prototype boards	48	08JAN01A	16MAR01A		E	100	▲▲▲▲▲▲ Order connectors for prototype boards																																																
4T028300	DL	Order parts for prototype boards	34	22JAN01A	09MAR01A		E	100	▲▲▲▲▲▲ Order parts for prototype boards																																																
4T028200	DL	Prototype pitch adapter	113	02FEB01A	02MAY01A		E	100	▲▲▲▲▲▲ Prototype pitch adapter																																																
4T028100	DL	Detail Kapton pitch adapter	10	05FEB01A	16FEB01A		E	100	▲▲▲▲▲▲ Detail Kapton pitch adapter																																																
4T028000	DL	(PR) Prototype PC board	1	30JUL01A	30JUL01A		E	100	⊗ (PR) Prototype PC board																																																
4T028500	DL	Design the MCM handling fixture	77	01AUG01A	16NOV01	77	E	50	▲▲▲▲▲▲ Design the MCM handling fixture																																																
4T028002	DL	(REC) Prototype PC board	1	23AUG01A	23AUG01A		E	100	⊗ (REC) Prototype PC board																																																
4T028600	DL	(PR) Prototype the MCM handling fixture	1	29OCT01A	29OCT01A		E	100	⊗ (PR) Prototype the MCM handling fixture																																																
4T028602	DL	(REC) Prototype the MCM handling fixture	1	12DEC01	12DEC01	77	E	0	⊗ (REC) Prototype the MCM handling fixture																																																
4.1.4.3.3.4.1 DEVELOP AND TEST POTTING COMPOUNDS & TECHNIQUES																																																									
4T028800		Acquire samples of potting material	45	02OCT00A	01DEC00A			100	▲▲▲▲▲▲ Acquire samples of potting material																																																
4T028900		Try out on test pieces by hand	20	22DEC00A	29JAN01A			100	▲▲▲▲▲▲ Try out on test pieces by hand																																																
4T029000	DU	Develop & test procedures with the SLAC machine	30	01MAY01A	12JUN01A		E	100	▲▲▲▲▲▲ Develop & test procedures with the SLAC machine																																																
4T029100		Document the procedures and results	14	13JUN01A	02JUL01A			100	▲▲▲▲▲▲ Document the procedures and results																																																
4.1.4.3.3.4.2 BUILD PROTOTYPE MCM ASSEMBLIES																																																									
4T029800		Specify and acquire sample connector savers	33	05FEB01A	22MAR01A			100	▲▲▲▲▲▲ Specify and acquire sample connector savers																																																
4T029310		Ready to Assemble TMCM's	0		25SEP01A			100	◆ Ready to Assemble TMCM's																																																
4T029300	DU	Load TMCM Board with Soldered Parts	5	16OCT01A	22OCT01A		E	100	⊗ Load TMCM Board with Soldered Parts																																																
4T029400		Load dummy or BTEM chips	10*	23OCT01A	05NOV01	57		70	▲▲▲▲▲▲ Load dummy or BTEM chips																																																
4T029410		AV: (2) Mini MCM's- to Electronics	1	06NOV01	06NOV01	57		0	⊗ AV: (2) Mini MCM's- to Electronics																																																
4T029500		Wire bond	5	06NOV01	12NOV01	92		0	⊗ Wire bond																																																

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
4T044200		Set up Assembly Line	59	19AUG02	08NOV02	86		0			Set up Assembly Line				
4T044000		Fab, Assemble Flight Tray Ass'y Tooling	66	19AUG02	19NOV02	79		0			Fab, Assemble Flight Tray Ass'y Tooling				
4T044100		Set up tray test and qualification stations	66	19AUG02	19NOV02	79		0			Set up tray test and qualification stations				
4.1.4.3.4.7 ASSEMBLE FLIGHT LADDERS (INFN)															
4T044300		Ready to fabricate SSD Ladder Review	0	12NOV01*		289		0			Ready to fabricate SSD Ladder Review				
4T044400	FI	Assemble SSD Ladders Lot A-B	43	05DEC01	13FEB02	274	A	0			Assemble SSD Ladders Lot A-B				
4T044500	FI	Assemble SSD Ladders Lot 1-2	39	08MAR02*	01MAY02	301	A	0			Assemble SSD Ladders Lot 1-2				
4T044600	FI	Assemble SSD Ladders Lot 3-4	43	06MAY02*	05JUL02	270	A	0			Assemble SSD Ladders Lot 3-4				
4T044700	FI	Assemble SSD Ladders Lot 5-6	44	04JUN02*	05AUG02	262	A	0			Assemble SSD Ladders Lot 5-6				
4T044800	FI	Assemble SSD Ladders Lot 7-8	45	05JUL02*	06SEP02	253	A	0			Assemble SSD Ladders Lot 7-8				
4T044900	FI	Assemble SSD Ladders Lot 9-10	46	04OCT02*	10DEC02	202	A	0			Assemble SSD Ladders Lot 9-10				
4T045000	FI	Assemble SSD Ladders Lot 11-12	39	04DEC02*	06FEB03	182	A	0			Assemble SSD Ladders Lot 11-12				
4T045100	FI	Assemble SSD Ladders Lot 13-14	49	03FEB03*	11APR03	151	A	0			Assemble SSD Ladders Lot 13-14				
4T045200	FI	Assemble SSD Ladders Lot 15-16	42	03APR03*	02JUN03	129	A	0			Assemble SSD Ladders Lot 15-16				
4.1.4.3.4.8 ASSEMBLE FLIGHT TRAYS (INFN)															
4T045403		Ready to Assy Payload/Flt Trays Review	0	16DEC02		63		0			Ready to Assy Payload/Flt Trays Review				
4T045405	FI	Assemble ladders to tray lot A - B	10	04MAR03	17MAR03	16	A	0			Assemble ladders to tray lot A - B				
4T045410		Wire bonding Ladders to tray and test	2	18MAR03	19MAR03	16		0			Wire bonding Ladders to tray and test				
4T045415		Incapsulation of Wire bonds	1	20MAR03	20MAR03	16		0			Incapsulation of Wire bonds				
4T045420		Thermal Test	10	21MAR03	03APR03	16		0			Thermal Test				
4T045505	FI	Assemble ladders to tray lot 1 - 2	10	21MAR03	03APR03	84	A	0			Assemble ladders to tray lot 1 - 2				
4T045510		Wire bonding Ladders to tray and test	3	04APR03	08APR03	84		0			Wire bonding Ladders to tray and test				
4T045425		Vibration Test	10	04APR03	17APR03	16		0			Vibration Test				
4T045515		Incapsulation of Wire bonds	1	09APR03	09APR03	84		0			Incapsulation of Wire bonds				
4T045520		Thermal Test	9	10APR03	22APR03	88		0			Thermal Test				
4T045650	FI	Assemble ladders to tray lot 3 - 4	9	10APR03	22APR03	84	A	0			Assemble ladders to tray lot 3 - 4				
4T045430		Cosmic Ray Test	9	18APR03	30APR03	16		0			Cosmic Ray Test				
4T045655		Wire bonding Ladders to tray and test	3	23APR03	25APR03	84		0			Wire bonding Ladders to tray and test				
4T045525		Vibration Test	5	23APR03	29APR03	88		0			Vibration Test				
4T045660		Incapsulation of Wire bonds	1	28APR03	28APR03	84		0			Incapsulation of Wire bonds				
4T045665		Thermal Test	10	29APR03	12MAY03	90		0			Thermal Test				
4T045750	FI	Assemble ladders to tray 5 - 6	10	29APR03	12MAY03	84	A	0			Assemble ladders to tray 5 - 6				
4T045530		Cosmic Ray Test	10	30APR03	13MAY03	88		0			Cosmic Ray Test				
4T045435		Ship lot A-B to Slac	5	01MAY03	07MAY03	16		0			Ship lot A-B to Slac				
4T045437	IA:	Ship Flight Trays lot A - B to SLAC	0		07MAY03	717		0			IA: Ship Flight Trays lot A - B to SLAC				
4T045755		Wire bonding Ladders to tray and test	3	13MAY03	15MAY03	84		0			Wire bonding Ladders to tray and test				
4T045670		Vibration Test	5	13MAY03	19MAY03	90		0			Vibration Test				
4T045535		Ship to INFN	3	14MAY03	16MAY03	88		0			Ship to INFN				
4T045760		Incapsulation of Wire bonds	1	16MAY03	16MAY03	84		0			Incapsulation of Wire bonds				
4T045537	IA:	Ship Flight Trays lot 1 - 2 to INFN	0		16MAY03	710		0			IA: Ship Flight Trays lot 1 - 2 to INFN				
4T045765		Thermal Test	10	19MAY03	02JUN03	89		0			Thermal Test				
4T045850	FI	Assemble ladders to tray lot 7 - 8	10	19MAY03	02JUN03	84	A	0			Assemble ladders to tray lot 7 - 8				
4T045675		Cosmic Ray Test	10	20MAY03	03JUN03	90		0			Cosmic Ray Test				
4T045855		Wire bonding Ladders to tray and test	3	03JUN03	05JUN03	84		0			Wire bonding Ladders to tray and test				
4T045770		Vibration Test	5	03JUN03	09JUN03	89		0			Vibration Test				
4T045680		Ship to INFN	3	04JUN03	06JUN03	90		0			Ship to INFN				
4T045860		Incapsulation of Wire bonds	1	06JUN03	06JUN03	84		0			Incapsulation of Wire bonds				
4T045682	IA:	Ship Flight Trays lot 3 - 4 to INFN	0		06JUN03	696		0			IA: Ship Flight Trays lot 3 - 4 to INFN				
4T045865		Thermal Test	10	09JUN03	20JUN03	88		0			Thermal Test				
4T045950	FI	Assemble ladders to tray lot 9 - 10	10	09JUN03	20JUN03	84	A	0			Assemble ladders to tray lot 9 - 10				
4T045775		Cosmic Ray Test	10	10JUN03	23JUN03	89		0			Cosmic Ray Test				
4T045955		Wire bonding Ladders to tray and test	3	23JUN03	25JUN03	84		0			Wire bonding Ladders to tray and test				
4T045870		Vibration Test	5	23JUN03	27JUN03	88		0			Vibration Test				
4T045780		Ship to INFN	3	24JUN03	26JUN03	89		0			Ship to INFN				
4T045960		Incapsulation of Wire bonds	1	26JUN03	26JUN03	84		0			Incapsulation of Wire bonds				
4T045782	IA:	Ship Flight Trays lot 5 - 6 to INFN	0		26JUN03	682		0			IA: Ship Flight Trays lot 5 - 6 to INFN				
4T045965		Thermal Test	10	27JUN03	11JUL03	87		0			Thermal Test				
4T046050	FI	Assemble ladders to tray lot 11 - 12	10	27JUN03	11JUL03	84	A	0			Assemble ladders to tray lot 11 - 12				
4T045875		Cosmic Ray Test	10	30JUN03	14JUL03	88		0			Cosmic Ray Test				
4T046055		Wire bonding Ladders to tray and test	3	14JUL03	16JUL03	84		0			Wire bonding Ladders to tray and test				
4T045970		Vibration Test	5	14JUL03	18JUL03	87		0			Vibration Test				
4T045880		Ship to INFN	3	15JUL03	17JUL03	88		0			Ship to INFN				
4T046060		Incapsulation of Wire bonds	1	17JUL03	17JUL03	84		0			Incapsulation of Wire bonds				
4T045882	IA:	Ship Flight Trays lot 7 - 8 to INFN	0		17JUL03	668		0			IA: Ship Flight Trays lot 7 - 8 to INFN				
4T046065		Thermal Test	9	18JUL03	30JUL03	86		0			Thermal Test				
4T046150	FI	Assemble ladders to tray lot 13 - 14	9	18JUL03	30JUL03	84	A	0			Assemble ladders to tray lot 13 - 14				
4T045975		Cosmic Ray Test	9	21JUL03	31JUL03	87		0			Cosmic Ray Test				
4T046155		Wire bonding Ladders to tray and test	3	31JUL03	04AUG03	84		0			Wire bonding Ladders to tray and test				
4T046070		Vibration Test	5	31JUL03	06AUG03	86		0			Vibration Test				
4T045980		Ship to INFN	3	01AUG03	05AUG03	87		0			Ship to INFN				
4T046160		Incapsulation of Wire bonds	1	05AUG03	05AUG03	84		0			Incapsulation of Wire bonds				
4T045982	IA:	Ship Flight Trays lot 9 - 10 to INFN	0		05AUG03	655		0			IA: Ship Flight Trays lot 9 - 10 to INFN				
4T046165		Thermal Test	10	06AUG03	19AUG03	85		0			Thermal Test				
4T046250	FI	Assemble ladders to tray lot 15 - 16	10	06AUG03	19AUG03	84	A	0			Assemble ladders to tray lot 15 - 16				
4T046075		Cosmic Ray Test	10	07AUG03	20AUG03	86		0			Cosmic Ray Test				
4T046255		Wire bonding Ladders to tray and test	3	20AUG03	22AUG03	84		0			Wire bonding Ladders to tray and test				
4T046170		Vibration Test	5	20AUG03	26AUG03	85		0			Vibration Test				
4T046080		Ship to INFN	3	21AUG03	25AUG03	86		0			Ship to INFN				
4T046260		Incapsulation of Wire bonds	1	25AUG03	25AUG03	84		0			Incapsulation of Wire bonds				
4T046082	IA:	Ship Flight Trays lot 11 - 12 to INFN	0		25AUG03	641		0			IA: Ship Flight Trays lot 11 - 12 to INFN				
4T046265		Thermal Test	9	26AUG03	08SEP03	84		0			Thermal Test				
4T046175		Cosmic Ray Test	9	27AUG03	09SEP03	85		0			Cosmic Ray Test				
4T046270		Vibration Test	5	09SEP03	15SEP03	84		0			Vibration Test				
4T046180		Ship to INFN	3	10SEP03	12SEP03	85		0			Ship to INFN				
4T046182	IA:	Ship Flight Trays lot 13 - 14 to INFN	0		12SEP03	628		0			IA: Ship Flight Trays lot 13 - 14 to INFN				
4T046275		Cosmic Ray Test	10	16SEP03	29SEP03	84		0			Cosmic Ray Test				
4T046280		Ship to INFN	3	30SEP03	02OCT03	84		0			Ship to INFN				
4T046282	IA:	Ship Flight Trays lot 15 - 16 to INFN	0		02OCT03	614		0			IA: Ship Flight Trays lot 15 - 16 to INFN				

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
4.1.4.3.5 SLAC ASSEMBLY FACILITIES															
4.1.4.3.5.1 ESTABLISH CLEAN-ROOM AT SLAC															
4T046500		Layout Facilities	40	03APR00A	25APR00A			100							
4T046700		Detail design facilities (PED)	80	26APR00A	15AUG00A			100							
4T047000		Design Prod. Line, Clean Rm Equip	80	26APR00A	15AUG00A			100							
4T046600		Oversee Facility Design, Construction	357*	26APR00A	21SEP01A			100							
4T046800		Build Production Facilities	249	16AUG00A	28AUG01A			100							
4T047300		Procure Tracker Environmental Test Equipment	170	02JAN01A	31AUG01A			100							
4T047200	DL	Set up Clean Rooms, Facilities	64	02APR01A	29JUN01A		A	100							
4T046900		AV: Beneficial Occupancy of Facilities for GLAST	0		21SEP01A			100							
4T047302		IA: Tracker Environmental Test Equipment	0		28SEP01A			100							
4T047100	DL	(PR) Procure Clean Rm, Bldg Equip	1	01OCT01A	01OCT01A		E	100							
4T047116	DU	(PR) Probe Station UCSC	1	01OCT01A	01OCT01A		E	100							
4T047126	DU	(REC) Probe Station UCSC	1	29JAN02	29JAN02	18	E	0							
4T047106	DL	(REC) Clean Rm, Bldg Equip	1	03APR02	03APR02	988	E	0							
4.1.4.3.5.2 PROCURE TRACKER ASSEMBLY EQUIPMENT															
4T047500	DL	Automated adhesive dispenser	1	30APR01A	30APR01A		E	100							
4T048000	DL	Supplies, Operating	446*	02JUL01A	23APR03	80	A	19							
4T047900	DL	Ongoing Support of Facilities	363*	04SEP01A	27FEB03	119	A	12							
4.1.4.4 TOWER STRUCTURE & ASSEMBLY															
4.1.4.4.1 TOWER STRUCTURE (SLAC)															
4.1.4.4.1.1 TOWER DESIGN, ANALYSIS, DETAILING (SLAC/HYTEC)															
4T048800	DL	Design Level Integration and Support	77	02OCT00A	29JAN01A		E	100							
4T048400	DL	Side Wall Development	283*	02OCT00A	28SEP01A		E	100							
4T048700	DL	Instrument Modeling to Support Tracker Issues	71	10OCT00A	29JAN01A		E	100							
4T048500	DL	Fabrication and Alignment Issues	73	20FEB01A	14JUN01A		E	100							
4T048600	DL	Prototype Tower Testing	103	26JUN01A	02JAN02	74	E	63							
4.1.4.4.1.2 EM ENGINEERING SUPPORT (HYTEC)															
4T049000	DL	(PR) EM ED&I Support of Interfaces (HYTEC)	1	03JAN02	03JAN02	321	E	0							
4T049100	DL	(PR) EM Development Tech Support (HYTEC)	1	03JAN02	03JAN02	350	E	0							
4T049110	DL	(REC) EM Development Tech Support (HYTEC)	1	08MAR02	08MAR02	350	E	0							
4T049010	DL	(REC) EM ED&I Support of Interfaces (HYTEC)	1	18APR02	18APR02	321	E	0							
4.1.4.4.2 TOWER CABLE PLANT (SLAC/UCSC)															
4.1.4.4.2.1 LAYOUT, DETAIL FLEX CIRCUIT CABLES(UCSC)															
4T049400		Research vendors and determine whether a splice	19	01FEB01A	28FEB01A			100							
4T049500	DU	Detail layout of each of 8 flex cables	76	01FEB01A	30JUL01A		E	100							
4T049501		Manufacture prototype cables	75*	15AUG01A	30NOV01	184		73							
4T049502	DU	Test prototype cables	19	03DEC01	07JAN02	184	E	0							
4T049503	DU	Procure and QC cables for the Engineering Model	24	08JAN02	11FEB02	184	E	0							
4.1.4.4.2.2 FABRICATE FLEX CIRCUIT CABLES (UCSC)															
4T049700	DL	(PR) Flex Circuit Cables (SLAC)	1	01OCT02*	01OCT02	112	E	0							
4T049800	DL	(PR) Connectors, Clamps (SLAC)	1	01OCT02*	01OCT02	82	E	0							
4T049900	DU	Procure Test & Assembly Equipment (UCSC)	30	01OCT02*	11NOV02	82	E	0							
4T049710	DL	(REC) Flex Circuit Cables (SLAC)	1	11NOV02	11NOV02	112	E	0							
4T050000	DU	Assemble Cable Test Equipment (UCSC)	30	12NOV02	03JAN03	82	E	0							
4T049810	DL	(REC) Connectors, Clamps (SLAC)	1	03JAN03	03JAN03	82	E	0							
4T050100	DU	Assemble, Test Flex Circuit Cables (UCSC)	20	06JAN03	03FEB03	82	E	0							
4.1.4.4.3 TOWER ASSEMBLY															
4.1.4.4.3.1 TOWER ASSEMBLY LINE (SLAC)															
4T050400	DL	Design Tower Ass'y Tooling	19	07JAN02*	01FEB02	147	E	0							
4T050500	DL	(PR) Fab, Assemble Tower Assy Tooling	1	04FEB02	04FEB02	147	E	0							
4T050502	DL	(REC) Fab, Assemble Tower Assy Tooling	1	21JUN02	21JUN02	147	E	0							
4T050600	DL	Set up SLAC Tower Ass'y Line	29	24JUN02	02AUG02	147	E	0							
4.1.4.4.3.2 PROCURE EM TOWER COMPONENTS (SLAC)															
4T050700	DL	(PR) Procure EM Tower Components (SLAC)	1	18JUL01A	18JUL01A		E	100							
4T050702	DL	(REC) Procure EM Tower Components (SLAC)	1	07NOV01	07NOV01	242	E	0							
4.1.4.4.3.3 ENGINEERING MODEL ASSEMBLY (SLAC)															
4T050900	DL	Set up EM Tower Assembly Line	52	24SEP01A	17JAN02	200	E	50							
4T051000	DL	Assemble Tkr EM Tower	13	12FEB02	01MAR02	184	E	0							
4T051002		IA: Tracker EM Tower	0		01MAR02	319		0							
4.1.4.4.3.4 PROCURE FLIGHT TOWER COMPONENTS (SLAC)															
4T051200	DL	(PR) Thermal walls	1	14NOV02*	14NOV02	75	E	0							
4T051300	DL	(PR) Fasteners	1	14NOV02*	14NOV02	75	E	0							
4T051202	DL	(REC) Thermal walls	1	12FEB03	12FEB03	75	E	0							
4T051302	DL	(REC) Fasteners	1	12FEB03	12FEB03	75	E	0							
4.1.4.4.3.5 QUAL TOWER ASSEMBLY (SLAC)															
4T051510		ND: EM2 TEM for Qual Towers A,B	0		16JAN03	93		0							
4T051500	DL	Assemble, Test Qual Towers A, B	9	08MAY03	20MAY03	16	E	0							
4T051501		IA: Qual Tower Assembly Complete	0		20MAY03	16		0							
4.1.4.4.3.6 FLIGHT TOWER ASSEMBLY (INFN)															
4T051935		Tracker RFI's 1st Article	0		31OCT01	440		0							
4T051700		Set up INFN tower assembly line	94	04MAR02	15JUL02	295		0							
4T051710		Tracker Production Readiness Review	0		18JUN02	279		0							
4T051805		Assemble Tower 1 - 2	5	18JUL03	24JUL03	46		0							
4T051810		Electrical test	5	25JUL03	31JUL03	46		0							
4T051815		Mechanical Acceptance Test	3	01AUG03	05AUG03	46		0							
4T051905		Assemble Tower 3 -4	5	06AUG03	12AUG03	49		0							
4T051820		Thermal Test	12	06AUG03	21AUG03	46		0							
4T051910		Electrical test	5	13AUG03	19AUG03	49		0							
4T051920		Mechanical Acceptance Test	3	20AUG03	22AUG03	49		0							
4T051822		Ship to SLAC	5	22AUG03	28AUG03	46		0							
4T052050		Assemble Tower 5 - 6	5	25AUG03	29AUG03	49		0							
4T051925		Thermal Test	12	25AUG03	10SEP03	68		0							
4T051825		AV: Deliver Flight Towers 1 - 2 to I & T	0		28AUG03	46		0							
4T052055		Electrical test	5	02SEP03	08SEP03	49		0							
4T052065		Mechanical Acceptance Test	3	09SEP03	11SEP03	49		0							
4T051927		Sip to SLAC	5	11SEP03	17SEP03	68		0							
4T052150		Assemble Tower 7 - 8	4	12SEP03	17SEP03	49		0							
4T052070		Thermal Test	11	12SEP03	26SEP03	65		0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
4T051930		AV: Deliver Flight Towers 3 - 4 to I & T	0		17SEP03	68		0							
4T052155		Electrical test	5	18SEP03	24SEP03	49		0							
4T052165		Mechanical Acceptance Test	3	25SEP03	29SEP03	49		0							
4T052072		Ship to SLAC	5	29SEP03	03OCT03	65		0							
4T052250		Assemble Tower 9 - 10	5	30SEP03	06OCT03	49		0							
4T052170		Thermal Test	12	30SEP03	15OCT03	61		0							
4T052075		AV: Deliver Flight Towers 5 - 6 to I & T	0		03OCT03	65		0							
4T052255		Electrical test	5	07OCT03	13OCT03	49		0							
4T052265		Mechanical Acceptance Test	3	14OCT03	16OCT03	49		0							
4T052172		Ship to SLAC	5	16OCT03	22OCT03	61		0							
4T052350		Assemble Tower 11 -12	4	17OCT03	22OCT03	49		0							
4T052270		Thermal Test	11	17OCT03	31OCT03	59		0							
4T052175		AV: Deliver Flight Towers 7 - 8 to I & T	0		22OCT03	61		0							
4T052355		Electrical test	5	23OCT03	29OCT03	49		0							
4T052365		Mechanical Acceptance Test	3	30OCT03	03NOV03	49		0							
4T052272		Ship to SLAC	5	03NOV03	07NOV03	59		0							
4T052450		Assemble Tower 13 - 14	5	04NOV03	10NOV03	49		0							
4T052370		Thermal Test	12	04NOV03	19NOV03	55		0							
4T052275		AV: Deliver Flight Towers 9 -10 to I & T	0		07NOV03	59		0							
4T052455		Electrical test	5	11NOV03	17NOV03	49		0							
4T052465		Mechanical Acceptance Test	3	18NOV03	20NOV03	49		0							
4T052372		Ship to SLAC	5	20NOV03	26NOV03	55		0							
4T052550		Assemble Tower 15 - 16	5	21NOV03	01DEC03	49		0							
4T052470		Thermal Test	12	21NOV03	10DEC03	51		0							
4T052375		AV: Deliver Flight Towers 11 - 12 to I & T	0		26NOV03	55		0							
4T052555		Electrical test	5	02DEC03	08DEC03	49		0							
4T052565		Mechanical Acceptance Test	3	09DEC03	11DEC03	49		0							
4T052472		Ship to SLAC	5	11DEC03	17DEC03	51		0							
4T052570		Thermal Test	11	12DEC03	06JAN04	49		0							
4T052475		AV: Deliver Flight Towers 13 - 14 to I & T	0		17DEC03	51		0							
4T052572		Ship to SLAC	5	07JAN04	13JAN04	49		0							
4T052575		AV: Deliver Flight Towers 15 -16 to I & T	0		13JAN04	49		0							
4.1.4.5 TRACKER TEST & CALIBRATION															
4.1.4.5.1 EM TOWER TESTING (SLAC)															
4T052812		ND: Com Card for Tracker EM Function Test	1	16OCT01A	16OCT01A			100							
4T052800	DL	(PR) Mech Test EM Tower	1	04MAR02	04MAR02	184	E	0							
4T052802	DL	(REC) Mech Test EM Tower	1	13MAR02	13MAR02	184	E	0							
4T052904		Evaluate EM Test Data	30	14MAR02	24APR02	184		0							
4T052900	DL	(PR) Elec Test EM Trays	1	21MAY02	21MAY02	0	E	0							
4T052902	DL	(REC) Elec Test EM Trays	1	18JUN02	18JUN02	0	E	0							
4T053010		ND: Electronics Pre-Eng. Model	0		19JUN02	915		0							
4T053000	DL	EM Tower I&T Support	19	20JUN02	17JUL02	915	E	0							
4.1.4.5.2 QUALIFICATION TOWER TESTING (SLAC)															
4T053210		Tracker Qual Readiness Review	0		20MAY03	16		0							
4T053200	DL	(PR) Mech Test Qual Towers	1	21MAY03	21MAY03	16	E	0							
4T053202	DL	(REC) Mech Test Qual Towers	1	18JUN03	18JUN03	16	E	0							
4T053300	DL	(PR) Elec Test Qual Towers	1	19JUN03	19JUN03	16	E	0							
4T053302	DL	(REC) Elec Test Qual Towers	1	17JUL03	17JUL03	16	E	0							
4T053312		Tracker Qual Review	0		17JUL03	16		0							
4T053400		AV: Deliver Qual Towers A and B to I & T	0		17JUL03	21		0							
4.1.4.5.3 FLIGHT TOWER TESTING (INFN)															
4T053600		Flight Tower Test Support	78	29AUG03	19DEC03	560		0							
4.1.4.5.4 TRACKER TEST FACILITIES (SLAC)															
4T053800	DL	Design Mech, Elec Test Equipment	59	04FEB02	26APR02	172	E	0							
4T053900	DL	(PR) Procure Test Equipment	1	29APR02	29APR02	172	E	0							
4T054000	DL	Fab Mech, Elec Test Fixtures	58	29APR02	19JUL02	192	E	0							
4T053902	DL	(REC) Procure Test Equipment	1	16AUG02	16AUG02	172	E	0							
4T054100	DL	Assemble, Test Mech, Elec Test Fixtures	29	19AUG02	27SEP02	172	E	0							
4.1.4.7 INSTRUMENT INTEGRATION & TEST (SLAC)															
4.1.4.7.1 QUAL-TOWER GLAST I & T SUPPORT															
4T054600	DL	Integrate Tkr Qual Towers on Grid	20	18JUL03	14AUG03	93	E	0							
4T054700	DL	Mech, Elec Test Tkr Qual Towers	14	15AUG03	04SEP03	93	E	0							
4T054800	DL	Support Qual GLAST Beam Tests	40	05SEP03	30OCT03	93	E	0							
4.1.4.7.2 INSTRUMENT I&T SUPPORT															
4T055000	DL	Integrate Tkr Flight Towers on Grid	152	29AUG03	14APR04	80	E	0							
4T055100	DL	Mech, Elec Test Tkr Flight Towers	78	15APR04	04AUG04	80	E	0							
4T055200	DL	Support Flight GLAST T&M Tests	59	05AUG04	27OCT04	80	E	0							
4T055300		Instrument Delivery	0		01MAR05*	1		0							
4T055400	DL	Support Flight GLAST I&T to Spacecraft	247	02MAR05	28FEB06	1	A	0							
4T055500	DL	ED&I Support Flight GLAST I&T	247	02MAR05	28FEB06	1	A	0							
4.1.4.7.3 TRACKER I&T EQUIPMENT															
4T055700	DL	Design Tkr Mech, Elec I&T Equip	51	21OCT02*	10JAN03	133	E	0							
4T055800	DL	(PR) Procure Tkr I&T Equip	1	13JAN03	13JAN03	133	E	0							
4T055900	DL	Fab Tkr I&T Fixtures	58	13JAN03	04APR03	153	E	0							
4T055802	DL	(REC) Procure Tkr I&T Equip	1	02MAY03	02MAY03	133	E	0							
4T056000	DL	Assemble, Test Tkr I&T Fixtures	29	05MAY03	13JUN03	133	E	0							
4.1.4.7.4 TRACKER OPERATIONS SUPPORT															
4T056200		Launch	0		01MAR06*	0		0							
4T056300		Engineering Operations Support	18	02MAR06	27MAR06	1		0							
4T056400		Physics Operations Support	18	02MAR06	27MAR06	1		0							
4.1.4.8 MISSION INTEGRATION & TEST SUPPORT															
4.1.4.8.1 TRACKER MISSION I&T SUPPORT															
4T056700	DL	Support GLAST I&T to S/C, LV	248	01MAR05*	28FEB06	2	A	0							
4T056800		ED&I Support Mission I&T	248	01MAR05*	28FEB06	2		0							
4.1.4.8.2 TRACKER PRE-OP'S SUPPORT															
4T057000		Launch	0		01MAR06	1		0							
4T057100		Engineering Operations Support	18	02MAR06	27MAR06	1		0							
4T057200		SLAC Physics Operations Support	18	02MAR06	27MAR06	1		0							
4T057300		UCSC Physics Operations Support	18	02MAR06	27MAR06	1		0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
4T057400		End Phase C/D	0		28MAR06*	0		0							End Phase C/D ♦

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year							
									FY01	FY02	FY03	FY04	FY05	FY06	FY07	
4.1.5 CALORIMETER																
5C50000110	FF	French Labor 2001	247	01JAN01A	21DEC01	62	A	86	French Labor 2001							
5C00000430		Interim Subsystem Review	0		28MAR01A			100	Interim Subsystem Review							
5C00000220		Calorimeter Requirements Review	0		28MAR01A			100	Calorimeter Requirements Review							
5C00000550		Calorimeter PDR	0		27JUL01A			100	Calorimeter PDR							
5C50000120	FF	French Labor 2002	247	02JAN02	23DEC02	62	A	0	French Labor 2002							
5C00000580		LAT Instrument PDR	0		07JAN02	1,048		0	LAT Instrument PDR							
5C00000590		Engineering Model (EM) Assembly Complete	0		01APR02*	990		0	Engineering Model (EM) Assembly Complete							
5C00000600		Calorimeter CDR	0		05JUN02	944		0	Calorimeter CDR							
5C00000630		EM Test Complete	0		28JUN02*	927		0	EM Test Complete							
5C00000730		LAT Instrument CDR	0		05AUG02	0		0	LAT Instrument CDR							
5C50000070		Resource Constraint, FY03 Funding	0		01OCT02*	9		0	Resource Constraint, FY03 Funding							
5C50000130	FF	French Labor 2003	247	02JAN03	23DEC03	62	A	0	French Labor 2003							
5C00000760		Qual Modules A & B Ready for Integ (Calib Unit)	0		30SEP03	616		0	Qual Modules A & B Ready for Integ (Ca							
5C50000080		Resource Constraint, FY04 Funding	0		01OCT03*	615		0	Resource Constraint, FY04 Funding							
5C00000870		Flight Modules 1&2 Ready for Integ (Calib Unit)	0		03NOV03	0		0	Flight Modules 1&2 Ready for Integ (Ca							
5C00000940		Flight CAL Tower 3, 4 Ready for Integration	0		02JAN04	0		0	Flight CAL Tower 3, 4 Ready for Integ							
5C50000140	FF	French Labor 2004	248	02JAN04	23DEC04	62	A	0	French Labor 2004							
5C50000000		Flight CAL Tower 5, 6 Ready for Integration	0		15JAN04	0		0	Flight CAL Tower 5, 6 Ready for Inte							
5C50000010		Flight CAL Tower 7, 8 Ready for Integration	0		29JAN04	0		0	Flight CAL Tower 7, 8 Ready for Inte							
5C50000020		Flight CAL Tower 9, 10 Ready for Integration	0		12FEB04	0		0	Flight CAL Tower 9, 10 Ready for In							
5C50000030		Flight CAL Tower 11, 12 Ready for Integration	0		26FEB04	0		0	Flight CAL Tower 11, 12 Ready for							
5C50000040		Flight CAL Tower 13, 14 Ready for Integration	0		10MAR04	0		0	Flight CAL Tower 13, 14 Ready for							
5C50000050		Flight CAL Tower 15, 16 Ready for Integration	0		24MAR04	0		0	Flight CAL Tower 15, 16 Ready for							
5C50000060		Flight CAL Tower 1, 2 Ready for Integration	0		26APR04	478		0	Flight CAL Tower 1, 2 Ready for t							
5C50000150	FF	French Labor 2005	248	03JAN05	23DEC05	62	A	0	French Labor 2005							
5C50000090		Launch	0		01MAR06	22		0	Launch							
5C50000100		Post Launch Checkout Complete	0		31MAR06	0		0	Post Launch Checkout Complete							
4.1.5.1 CALORIMETER PROGRAM MANAGEMENT & ADMINISTRATION																
5C0150	DN	CAL Program Management (FY00)	374	03APR00A	29SEP00A		A	100	CAL Program Management (FY00)							
5C0150A	DN	CAL Program Management (FY01)	247	02OCT00A	28SEP01A		A	100	CAL Program Management (FY01)							
5C0150B	DN	CAL Program Management Labor	614	01OCT01A	31MAR04	0	A	3	CAL Program Management Labor							
5C0150G	DN	CAL Program Management Travel	989	01OCT01A	29SEP05	0	A	2	CAL Program M							
5C0150F	DN	CAL Prog Mgmt Computer Support and M & S	1,047	01OCT01A	22DEC05	63	A	2	CAL Prog Mg							
5C0150C	DN	CAL Program Management Labor	128	01APR04	30SEP04	0	A	0	CAL Program Management Labor							
5C0150D	DN	CAL Program Management Labor	248	01OCT04	30SEP05	0	A	0	CAL Program Management Labor							
5C0150E	DN	CAL Program Management Labor	120	03OCT05	31MAR06	0	A	0	CAL Program Management Labor							
5C0150H	DN	CAL Program Management Travel	120	03OCT05	31MAR06	0	A	0	CAL Program Management Travel							
4.1.5.1.2 PROGRAM & DESIGN REVIEWS																
5C0084		Program & Design Reviews	1,462	03APR00A	01MAR06	22		27	Program &							
4.1.5.1.3 TRAVEL																
5C0130		Travel	1,462	03APR00A	01MAR06	22		27	Travel							
4.1.5.1.4 SCIENCE																
5C0131		Science	1,462	03APR00A	01MAR06	22		27	Science							
4.1.5.2 SYSTEMS ENGINEERING																
5C0521		CAL System Engineering Labor (FY00)	247	03APR00A	29SEP00A			100	CAL System Engineering Labor (FY00)							
5C0521A		CAL System Engineering Labor (FY01)	742	02OCT00A	28SEP01A			100	CAL System Engineering Labor (FY01)							
5C0521E	DN	CAL System Engineering Travel (FY02)	247	01OCT01A	30SEP02	120	A	9	CAL System Engineering Travel (FY02)							
5C0521B	DN	CAL System Engineering Labor (FY02 - 04)	742	01OCT01A	30SEP04	22	A	3	CAL System Engineering La							
5C0521F	DN	CAL System Engineering Travel (FY03)	247	01OCT02	30SEP03	120	A	0	CAL System Engineering Travel (FY03)							
5C0521G	DN	CAL System Engineering Travel (FY04 - 05)	496	01OCT03	30SEP05	120	A	0	CAL System En							
5C0521C	DN	CAL System Engineering Labor (FY05)	248	01OCT04	30SEP05	22	A	0	CAL System Engineering Labor (FY05)							
5C0521D	DN	CAL System Engineering Labor (FY06)	98	03OCT05	01MAR06	22	A	0	CAL System Engineering Labor (FY06)							
4.1.5.3 RELIABILITY AND QUALITY ASSURANCE																
5C1515	DN	CAL R&QA Labor (FY00)	247	03APR00A	29SEP00A		A	100	CAL R&QA Labor (FY00)							
5C1515A	DN	CAL R&QA Labor (FY01)	247	02OCT00A	28SEP01A		A	100	CAL R&QA Labor (FY01)							
5C1515H	DN	CAL R&QA Travel (FY02)	247	01OCT01A	30SEP02	120	A	9	CAL R&QA Travel (FY02)							
5C1515B	DN	CAL R&QA Labor (FY02 - 03)	494	01OCT01A	30SEP03	0	A	4	CAL R&QA Labor (FY02 - 03)							
5C1515F	DN	CAL R&QA Computer Support and M & S	742	01OCT01A	30SEP04	121	A	3	CAL R&QA Computer Supp							
5C1515I	DN	CAL R&QA Travel (FY03)	247	01OCT02	30SEP03	120	A	0	CAL R&QA Travel (FY03)							
5C1515C	DN	CAL R&QA Labor (FY04)	247	01OCT03	29SEP04	0	A	0	CAL R&QA Labor (FY04)							
5C1515J	DN	CAL R&QA Travel (FY04 - 05)	496	01OCT03	30SEP05	120	A	0	CAL R&QA Travel (FY04 - 05)							
5C1515D	DN	CAL R&QA Labor (FY05)	249	30SEP04	30SEP05	0	A	0	CAL R&QA Labor (FY05)							
5C1515G	DN	CAL R&QA Computer Support and M & S	247	01OCT04*	29SEP05	121	A	0	CAL R&QA Computer Support and M & S							
5C1515E	DN	CAL R&QA Labor (FY06)	120	03OCT05*	31MAR06	0	A	0	CAL R&QA Labor (FY06)							
4.1.5.3.1 RELIABILITY																
5C0136		4.1.5.3.1 Reliability and Quality Assurance	1,462	03APR00A	01MAR06	22		27	4.1.5.3.1 Re							
4.1.5.3.2 SAFETY																
5C0137		4.1.5.3.2 Safety	1,462	03APR00A	01MAR06	22		27	4.1.5.3.2 Sa							
4.1.5.3.3 FLIGHT ASSURANCE																
5C0138		4.1.5.3.3 Flight Assurance	1,462	03APR00A	01MAR06	22		27	4.1.5.3.3 Fl							
4.1.5.3.4 FLIGHT MODEL PROC/FAB/ASSY/TEST																
5C0139		4.1.5.3.4 Flight Model Proc/Fab/Assy/Test	880	06AUG02	01MAR06	22		0	4.1.5.3.4 Fl							
4.1.5.4 CALORIMETER DESIGN																
5C0140	DN	CAL Design Labor (FY00)	247	03APR00A	29SEP00A		A	100	CAL Design Labor (FY00)							
5C0140A	DN	CAL Design Materials (FY00)	247	03APR00A	29SEP00A		A	100	CAL Design Materials (FY00)							
5C0140B	DN	CAL Design Labor (FY01)	247	02OCT00A	28SEP01A		A	100	CAL Design Labor (FY01)							
5C0140C	DN	CAL Design Materials (FY01)	247	02OCT00A	28SEP01A		A	100	CAL Design Materials (FY01)							
5C0140D	DN	CAL Design Labor (FY02)	247	01OCT01A	30SEP02	863	A	8	CAL Design Labor (FY02)							
5C0140E		CAL Design Materials (FY02)	247	01OCT01A	30SEP02	863		8	CAL Design Materials (FY02)							
4.1.5.4.1 CALORIMETER INSTRUMENT DESIGN																
5C0143		CAL PDR	0		27JUL01A			100	CAL PDR							
5C0144		I-PDR	0		07JAN02	4		0	I-PDR							
5C0146		CAL CDR	0		05JUN02	944		0	CAL CDR							
5C0147		I-CDR	0		05AUG02	902		0	I-CDR							
4.1.5.4.2 STRUCTURE																
4.1.5.4.2.1 PEM STRUCTURE DESIGN																
5C0152		PEM STRUCTURE DESIGN	581	03APR00A	02AUG02	903		68	PEM STRUCTURE DESIGN							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01 FY02 FY03 FY04 FY05 FY06 FY07								
									Gantt Chart								
4.1.5.4.2.2 PEM STRUCTURE VERIFICATION																	
5C0168		PEM Structure Verification (3)	396	02JAN01A	02AUG02	903		52	PEM Structure Verification (3)								
4.1.5.4.3 THERMAL DESIGN																	
5C0169		Thermal Subsystem	396	02JAN01A	02AUG02	903		52	Thermal Subsystem								
4.1.5.4.4 POWER																	
5C0170		Power Subsystem	396	02JAN01A	02AUG02	903		52	Power Subsystem								
4.1.5.4.5 SIMULATIONS																	
5C0171		Simulations	396	02JAN01A	02AUG02	903		52	Simulations								
4.1.5.5 Csi DETECTOR ELEMENTS (CDE)																	
4.1.5.5.1 CDE DESIGN																	
4.1.5.5.1.1 PIN OPTICAL COUPLING																	
4.1.5.5.1.1.1 BONDING PROCESS DEVELOPMENT																	
4.1.5.5.1.1.1.1 BONDING PROCESS CHOICE																	
5C0183		Supplying Csi samples	95	12FEB01A	22JUN01A			100	Supplying Csi samples								
5C0180		recommandation of glues by CETIM and supplying	45	05MAR01A	04MAY01A			100	recommandation of glues by CETIM and supplying								
5C0178		Supplying Cryothermostat + Vacuum chamber	80	05MAR01A	22JUN01A			100	Supplying Cryothermostat + Vacuum chamber								
5C0181		Gluing Process definition	30	07MAY01A	15JUN01A			100	Gluing Process definition								
5C0182		Gluing preparation	10	18JUN01A	29JUN01A			100	Gluing preparation								
5C0179		Cryostat calibration	10	25JUN01A	06JUL01A			100	Cryostat calibration								
5C0184		Gluing sample glass/Csi by CETIM	6	02JUL01A	09JUL01A			100	Gluing sample glass/Csi by CETIM								
5C0186		1rst set of 10 thermal cycles	8	11JUL01A	20JUL01A			100	1rst set of 10 thermal cycles								
5C0188		Bonding Csi/diode 20X10 (CETIM)+ transport	5	23JUL01A	27JUL01A			100	Bonding Csi/diode 20X10 (CETIM)+ transport								
5C0187		Optical tests on glues after therm tests	15	23JUL01A	10AUG01A			100	Optical tests on glues after therm tests								
5C0190		Thermal cycling Csi/glass	22	23JUL01A	21AUG01A			100	Thermal cycling Csi/glass								
5C0185		End of process study	0		24JUL01A			100	End of process study								
5C0189		thermal cycling of Csi/diode 10X20	60	30JUL01A	19OCT01A			100	thermal cycling of Csi/diode 10X20								
5C0192		ratification of gluing concept	0		14AUG01A			100	ratification of gluing concept								
5C0191		Thermal cycling Csi/glass	27	22AUG01A	28SEP01A			100	Thermal cycling Csi/glass								
4.1.5.5.1.1.2 EM MODEL CDE BONDING																	
5C0194		spec of gluing	5	15AUG01A	21AUG01A			100	spec of gluing								
5C0195		Glue supplying	20	22AUG01A	19SEP01A			100	Glue supplying								
5C0196		Gluing test by lot	20	20SEP01A	17OCT01A			100	Gluing test by lot								
5C0197		Glue ready	0		24SEP01A			100	Glue ready								
4.1.5.5.1.1.3 PIN BONDING TEST																	
5C0199		Glue qualification	56	25SEP01A	13DEC01	1,043		46	Glue qualification								
5C0200		Gluing PIN qualified	50	24OCT01A	14JAN02	1,043		9	Gluing PIN qualified								
4.1.5.5.1.1.2 BONDING GSE																	
5C0202		Studying	15	16APR01A	04MAY01A			100	Studying								
5C0203		manufacturing	15	07MAY01A	25MAY01A			100	manufacturing								
5C0204		tooling test use	15	29MAY01A	15JUN01A			100	tooling test use								
4.1.5.5.1.1.3 SILICONE COMPRESSION STUDY																	
5C0205		Silicone compression study	1	07DEC00A	07DEC00A			100	Silicone compression study								
4.1.5.5.1.1.4 COMPRESSION TEST GSE																	
5C0206		Compression test GSE	0		07DEC00A			100	Compression test GSE								
4.1.5.5.1.2 DUAL PIN PHOTODIODES PERFORMANCE TESTS																	
5C0209		Double PIN acceptance tests	45	01AUG01A	03OCT01A			100	Double PIN acceptance tests								
5C0208		NRL DPD delivery	0		24AUG01A			100	NRL DPD delivery								
5C0210		CEA DPD delivery	0		31AUG01A			100	CEA DPD delivery								
5C0211		Mechanical tests	10	04SEP01A	17SEP01A			100	Mechanical tests								
5C0212		Electrical tests	10	18SEP01A	01OCT01A			100	Electrical tests								
5C0213		Cosmic bench tests	10	02OCT01A	15OCT01A			100	Cosmic bench tests								
4.1.5.5.1.3 CRYSTAL PEERFORMANCE & WRAPPING STUDY																	
4.1.5.5.1.3.1 IMPROVEMENT OF COSMIC BENCH																	
5C0217		Improvement of hodoscope of cosmic bench	50	20FEB01A	27APR01A			100	Improvement of hodoscope of cosmic bench								
5C0218		tooling for three crystals	42	01MAR01A	27APR01A			100	tooling for three crystals								
5C0219		improvement of Cosmic bench to integrate PEM	6	04JUN01A	11JUN01A			100	improvement of Cosmic bench to integrate PEM								
5C0220		Cosmic Bench ready for VM2 test	0		11JUN01A			100	Cosmic Bench ready for VM2 test								
5C0216		Thermal enclosure of CdF	30	18JUN01A	27JUL01A			100	Thermal enclosure of CdF								
4.1.5.5.1.3.2 WRAPPING																	
5C0222		Ordering 3M film	15	02FEB01A	22FEB01A			100	Ordering 3M film								
5C0224		manufacturing cell + 3M hot	6	23FEB01A	02MAR01A			100	manufacturing cell + 3M hot								
5C0228		Wrapping dif. Colors 3M	10	23FEB01A	08MAR01A			100	Wrapping dif. Colors 3M								
5C0223		3M outgassing measurement (IntelSpace)	15	23FEB01A	15MAR01A			100	3M outgassing measurement (IntelSpace)								
5C0227		worse case analysis	5	09MAR01A	15MAR01A			100	worse case analysis								
5C0225		3M new optical measurement	20	19MAR01A	13APR01A			100	3M new optical measurement								
5C0229		Test on cosmic bench	10	14MAY01A	25MAY01A			100	Test on cosmic bench								
5C0230		use of wrapping choice	3	29MAY01A	30MAY01A			100	use of wrapping choice								
5C0226		Life test IntelSpace	40	17SEP01A	09NOV01	1,080		83	Life test IntelSpace								
4.1.5.5.2 Csi(Tl) SCINTILLATION CRYSTALS																	
5C52S00000	FK	Swedish Labor 2002	247	02JAN02*	23DEC02	2 A		0	Swedish Labor 2002								
5C52S00010	FK	Swedish Labor 2003	247	02JAN03	23DEC03	2 A		0	Swedish Labor 2003								
5C52S00020	FK	Swedish Labor 2004	248	02JAN04	23DEC04	2 A		0	Swedish Labor 2004								
5C52S00030	FK	Swedish Labor 2005	248	03JAN05	23DEC05	2 A		0	Swedish Labor 2005								
5C52S00040	FK	Swedish Labor 2006	60	03JAN06	29MAR06	2 A		0	Swedish Labor 2006								
4.1.5.5.2.1 Csi PROCUREMENT																	
5C0233		Crystal Procurement Plan Review	28	01MAR01A	09APR01A			100	Crystal Procurement Plan Review								
5C0234		Crystal PO issued by Sweden	0		09APR01A			100	Crystal PO issued by Sweden								
5C0235		Csi Procurement (test lot -- 24 logs)	30	23APR01A	01JUN01A			100	Csi Procurement (test lot -- 24 logs)								
5C0236		1st EM crystal lot (12 logs) in S	0		08MAY01A			100	1st EM crystal lot (12 logs) in S								
5C0237		1st EM crystal lot (12+12 logs) due in S	0		01JUN01A			100	1st EM crystal lot (12+12 logs) due in S								
5C0238		Csi Delivery to Sweden (106 logs)	0		10SEP01A			100	Csi Delivery to Sweden (106 logs)								
5C0239		Csi Final Delivery to Sweden (1800 logs)	184	01JUL02*	01APR03	135		0	Csi Final Delivery to Sweden (1800 logs)								
4.1.5.5.2.2 Csi ACCEPTANCE TESTING/VERIFICATION																	
5C0242		Acceptance testing (S) metrology (24 logs)	3	01JUN01A	05JUN01A			100	Acceptance testing (S) metrology (24 logs)								
5C0243		Delivery VM Csi (24) to France	0		12JUN01A			100	Delivery VM Csi (24) to France								
5C0245		VM Csi (24 logs) acceptance in F	5	13JUN01A	19JUN01A			100	VM Csi (24 logs) acceptance in F								
5C0249		EM CRYSTALS - Csi Delivery to S (106 logs)	0		10SEP01A			100	EM CRYSTALS - Csi Delivery to S (106 logs)								
5C0250		EM CRYSTALS - Acceptance testing (S) metrology	10	11SEP01A	24SEP01A			100	EM CRYSTALS - Acceptance testing (S) metrology								
5C0251		EM CRYSTALS - Acceptance testing (S) light yield	18	13SEP01A	08OCT01A			100	EM CRYSTALS - Acceptance testing (S) light yield								

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01 FY02 FY03 FY04 FY05 FY06 FY07							
5C0252		EM CRYSTALS - Delivery EM Csl (110) to F	5	18SEP01A	24SEP01A			100								
5C0255		FM CRYSTALS - Csl Delivery to S (110 logs)	0		29MAR02*	154		0								
5C0256		FM CRYSTALS - Acceptance testing (S) metrology	5	01APR02	05APR02	154		0								
5C0257		FM CRYSTALS - Acceptance testing (S) light yield	5	08APR02	12APR02*	154		0								
5C0258		FM CRYSTALS -Csl Final Delivery to S (1800 logs)	184	01JUL02*	01APR03	135		0								
5C0259		FM CRYSTALS - Acceptance testing (S) metrology	60	02APR03*	25JUN03	135		0								
5C0260		FM CRYSTALS - Acceptance testing (S) light yield	5	09APR03*	15APR03	135		0								
4.1.5.5.2.2.1 Csl TEST GSE																
5C0262		Xtal mechanical GSE design	78	01DEC00A	30MAR01A			100								
5C0263		Xtal Light Yield Test bench design	86	01DEC00A	30MAR01A			100								
5C0264		Xtal mechanical GSE production	86	29DEC00A	27APR01A			100								
5C0265		Xtal Light Yield Test bench production (NRL)	83	02JAN01A	30APR01A			100								
5C0266		Xtal test bench set-up & prep (NRL)	10	16APR01A	27APR01A			100								
5C0267		Xtal Optical Test Bench ready at NRL	0		27APR01A			100								
5C0269		NRL Xtal TB 1 shipment to S	5	30APR01A	04MAY01A			100								
5C0273		Mech TB assembly (in Kalmar)	20	30APR01A	25MAY01A			100								
5C0268		Opt TB#2 assy (incl SW debug)	25	30APR01A	01JUN01A			100								
5C0270		TB 1 delivered in S from NRL	0		04MAY01A			100								
5C0271		TB 1 set-up in Kalmar	5	07MAY01A	11MAY01A			100								
5C0272		Xtal Optical Test Bench ready in S	0		11MAY01A			100								
5C0274		Na22 sources at Kalmar	0		18MAY01A			100								
5C0275		NRL ship TB#2 to Kalmar	5	04JUN01A	08JUN01A			100								
5C0276		TB (one) ship to Kharkov	10	12JUN01A	22JUN01A			100								
5C0277		Assembly TB in Kharkov	5	25JUN01A	29JUN01A			100								
5C0278		NRL, S visit Amchrys-H	10	25JUN01A	06JUL01A			100								
5C0279		Ship 6 ref. Xtals to Alpha Spectra US	5	16JUL01A	20JUL01A			100								
5C0280		TB#3,4 assembly	10	09OCT01A	22OCT01A			100								
5C0281		Kalmar TB 3,4 available	0		22OCT01A			100								
5C0282		Ship TB#3,4 to Kharkov	10	30OCT01A	12NOV01	222		19								
5C0283		S in Khatkov to switch TB's	5	13NOV01	19NOV01	222		0								
5C0284		TB#1 ship back to Kalmar	5	20NOV01	28NOV01	232		0								
5C0285		TB#5,6 assembly	10	20NOV01	05DEC01	222		0								
5C0286		Ship TB#1 to France	5	06DEC01	12DEC01	222		0								
5C0287		Ship TB#2 to NRL	5	06DEC01	12DEC01	222		0								
4.1.5.5.3 DUAL PIN photoDIODE (DPD)																
4.1.5.5.3.1 DPD PROCUREMENT																
4.1.5.5.3.1.1 VM2 EM PROCUREMENT																
5C0291		Specifications	74	16JAN01A	27APR01A			100								
5C0292		lot order (NRL)	76	27APR01A	15AUG01A			100								
5C0293		Lot order (France)	0		20JUN01A			100								
5C0294		NRL procurement delivery	0		24AUG01A			100								
5C0295		CEA procurement delivery	0		31AUG01A			100								
4.1.5.5.3.1.2 DPD FLIGHT MODEL PROCUREMENT																
5C0297		PIN Specifications	133	27APR01A	30OCT01A			100								
5C0298		call for tender	122	31OCT01A	03MAY02	16		1								
5C0299		Ordering	32	06MAY02	19JUN02	16		0								
4.1.5.5.3.1.3 PIN MANUFACTURING																
5C0301		Diodes realization order	0		19JUN02	16		0								
5C0302		First 300 diodes	72	20JUN02	01OCT02	16		0								
5C0303		300 diodes 2nd delivery	20	02OCT02	29OCT02	18		0								
5C0304		300 diodes 3rd delivery	18	30OCT02	26NOV02	18		0								
5C0305		300 diodes 4th delivery	19	27NOV02	23DEC02	18		0								
5C0306		300 diodes 5th delivery	13	02JAN03	21JAN03	18		0								
5C0307		300 diodes 6th delivery	19	22JAN03	18FEB03	18		0								
5C0308		300 diodes 7th delivery	20	19FEB03	18MAR03	18		0								
5C0309		300 diodes 8th delivery	20	19MAR03	15APR03	18		0								
5C0310		300 diodes 9th delivery	20	16APR03	13MAY03	18		0								
5C0311		300 diodes 10th delivery	19	14MAY03	10JUN03	18		0								
5C0312		300 diodes 11th delivery	19	11JUN03	08JUL03	18		0								
5C0313		300 diodes 12th delivery	20	09JUL03	05AUG03	18		0								
4.1.5.5.3.2 DPD ACCEPTANCE & TEST																
4.1.5.5.3.2.1 1DPD VM2 EM TESTS																
4.1.5.5.3.2.1.1 VM2 ELECTRICAL TESTS																
5C0317		VM2 PIN electrical tests	2	01AUG01A	02AUG01A			100								
4.1.5.5.3.2.1.2 EM DPD ACCEPTANCE TESTS																
5C0319		EM Electrical & mechanical Pin tests	10	05SEP01A	18SEP01A			100								
4.1.5.5.3.2.2 DOUBLE PIN MAIN PROCUREMENT																
5C0321		FM A diodes tests and packing	20	02OCT02	29OCT02	16		0								
5C0322		FM B diodes tests and packing	15	30OCT02	19NOV02	25		0								
5C0323		FM 1 diodes tests and packing	14	13NOV02	04DEC02	53		0								
5C0324		FM 2 diodes tests and packing	19	27NOV02	23DEC02	69		0								
5C0325		FM 3 diodes tests and packing	9	02JAN03	14JAN03	66		0								
5C0326		FM 4 diodes tests and packing	15	08JAN03	29JAN03	65		0								
5C0327		FM 5 diodes tests and packing	15	22JAN03	11FEB03	61		0								
5C0328		FM 6 diodes tests and packing	15	19FEB03	11MAR03	52		0								
5C0329		FM 7 diodes tests and packing	15	05MAR03	25MAR03	51		0								
5C0330		FM 8 diodes tests and packing	15	19MAR03	08APR03	48		0								
5C0331		FM 9 diodes tests and packing	15	16APR03	06MAY03	41		0								
5C0332		FM 10 diodes tests and packing	15	30APR03	20MAY03	41		0								
5C0333		FM 11 diodes tests and packing	15	14MAY03	04JUN03	44		0								
5C0334		FM 12 diodes tests and packing	15	11JUN03	01JUL03	35		0								
5C0335		FM 13 diodes tests and packing	15	25JUN03	16JUL03	37		0								
5C0336		FM 14 diodes tests and packing	15	09JUL03	29JUL03	39		0								
5C0337		FM 15 diodes tests and packing	15	06AUG03	26AUG03	28		0								
5C0338		FM 16 diodes tests and packing	15	20AUG03	10SEP03	18		0								
4.1.5.5.3.3 DPD TEST GSE																
4.1.5.5.3.3.1 PIN TEST FOR VM2 BENCH																
5C0341		specification of test bench	15	02APR01A	20APR01A			100								
5C0342		up dating CMS test bench	60	30APR01A	20JUL01A			100								

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY									
									FY01	FY02	FY03	FY04	FY05	FY06	FY07			
4.1.5.5.3.3.2 PIN INDUSTRIAL TEST BENCH																		
5C0344		Specifications & studies	58	28SEP01A	20DEC01	28		40										
5C0345		Procurement	52	21DEC01*	15MAR02	28		0										
5C0346		Assembly	15	18MAR02*	05APR02	28		0										
5C0347		Tests & receipt of PIN bench	59	08APR02*	28JUN02	28		0										
5C0348		Measurement training	53	01JUL02*	13SEP02	28		0										
4.1.5.5.4 DUAL PIN PHOTODIODE INTERCONNECT																		
4.1.5.5.4.1 DPD CONNECTION PROCUREMENT																		
5C0351		VM2 Kapton procurement	47	14MAY01A	19JUL01A			100										
5C0353		EM Kapton procurement	20	09JUL01A	03AUG01A			100										
5C0352		VM2 Kapton fabrication	25	18JUL01A	23AUG01A			100										
5C0354		EM Kapton fabrication	29	06AUG01A	14SEP01A			100										
5C0355		QM FM Kapton procurement	38	08OCT01A	30NOV01	194		45										
5C0356		QM FM Kapton fabrication	28	03DEC01	18JAN02	194		0										
4.1.5.5.4.2 SOLDERING ON DPD																		
5C0358		VM2 soldering	3	24AUG01A	28AUG01A			100										
5C0359		EM Soldering	10	19SEP01A	02OCT01A			100										
5C0360		FM A soldering	13	03OCT02	21OCT02	16		0										
5C0361		FM B soldering	10	01NOV02	14NOV02	25		0										
5C0362		FM 1 soldering	10	18NOV02	03DEC02	53		0										
5C0363		FM 2 soldering	10	02DEC02	13DEC02	69		0										
5C0364		FM 3 soldering	10	02JAN03	15JAN03	66		0										
5C0365		FM 4 soldering	6	09JAN03	16JAN03	65		0										
5C0366		FM 5 soldering	10	24JAN03	06FEB03	61		0										
5C0367		FM 6 soldering	10	21FEB03	06MAR03	52		0										
5C0368		FM 7 soldering	10	07MAR03	20MAR03	51		0										
5C0369		FM 8 soldering	13	21MAR03	08APR03	48		0										
5C0370		FM 9 soldering	10	18APR03	01MAY03	41		0										
5C0371		FM 10 soldering	10	05MAY03	16MAY03	41		0										
5C0372		FM 11 soldering	10	19MAY03	02JUN03	44		0										
5C0373		FM 12 soldering	10	16JUN03	27JUN03	35		0										
5C0374		FM 13 soldering	10	25JUN03	09JUL03	37		0										
5C0375		FM 14 soldering	10	11JUL03	24JUL03	39		0										
5C0376		FM 15 soldering	10	11AUG03	22AUG03	28		0										
5C0377		FM 16 soldering	10	11SEP03	24SEP03	18		0										
4.1.5.5.4.3 CONNECTION ACCEPTANCE																		
5C0379		VM2 Acceptance tests	2	29AUG01A	30AUG01A			100										
5C0380		VM2 DPD ready for CDE (C28 goto D28)	0		02OCT01A			100										
5C0381		EM Acceptance tests+ packaging	5	03OCT01A	09OCT01A			100										
5C0382		EM DPD ready for CDE (C29 goto D29)	0		09OCT01A			100										
5C0383		FM A DPD + kapton acceptance test	5	22OCT02	28OCT02	16		0										
5C0384		FM A DPD ready for CDE	0		28OCT02	16		0										
5C0385		FM B DPD + kapton acceptance test	4	15NOV02	20NOV02	25		0										
5C0386		FM B DPD ready for CDE	0		20NOV02	25		0										
5C0387		FM 1 DPD + kapton acceptance test	4	04DEC02	09DEC02	53		0										
5C0388		FM 1 DPD ready for CDE	0		09DEC02	53		0										
5C0389		FM 2 DPD + kapton acceptance test	4	16DEC02	19DEC02	69		0										
5C0390		FM 2 DPD ready for CDE	0		19DEC02	69		0										
5C0391		FM 3 DPD + kapton acceptance test	4	16JAN03	22JAN03	66		0										
5C0393		FM 4 DPD + kapton acceptance test	4	17JAN03	23JAN03	65		0										
5C0392		FM 3 DPD ready for CDE	0		22JAN03	66		0										
5C0394		FM 4 DPD ready for CDE	0		23JAN03	65		0										
5C0395		FM 5 DPD + kapton acceptance test	4	07FEB03	12FEB03	61		0										
5C0396		FM 5 DPD ready for CDE	0		12FEB03	61		0										
5C0397		FM 6 DPD + kapton acceptance test	4	07MAR03	12MAR03	52		0										
5C0398		FM 6 DPD ready for CDE	0		12MAR03	52		0										
5C0399		FM 7 DPD + kapton acceptance test	4	21MAR03	26MAR03	51		0										
5C0400		FM 7 DPD ready for CDE	0		26MAR03	51		0										
5C0401		FM 8 DPD + kapton acceptance test	4	09APR03	14APR03	48		0										
5C0402		FM 8 DPD ready for CDE	0		14APR03	48		0										
5C0403		FM 9 DPD + kapton acceptance test	4	02MAY03	07MAY03	41		0										
5C0404		FM 9 DPD ready for CDE	0		07MAY03	41		0										
5C0405		FM 10 DPD + kapton acceptance test	4	19MAY03	22MAY03	41		0										
5C0406		FM 10 DPD ready for CDE	0		22MAY03	41		0										
5C0407		FM 11 DPD + kapton acceptance test	4	03JUN03	06JUN03	44		0										
5C0408		FM 11 DPD ready for CDE	0		06JUN03	44		0										
5C0409		FM 12 DPD + kapton acceptance test	4	30JUN03	03JUL03	35		0										
5C0410		FM 12 DPD ready for CDE	0		03JUL03	35		0										
5C0411		FM 13 DPD + kapton acceptance test	4	10JUL03	15JUL03	37		0										
5C0412		FM 13 DPD ready for CDE	0		15JUL03	37		0										
5C0413		FM 14 DPD + kapton acceptance test	4	25JUL03	30JUL03	39		0										
5C0414		FM 14 DPD ready for CDE	0		30JUL03	39		0										
5C0415		FM 15 DPD + kapton acceptance test	4	25AUG03	28AUG03	28		0										
5C0416		FM 15 DPD ready for CDE	0		28AUG03	28		0										
5C0417		FM 16 DPD + kapton acceptance test	4	25SEP03	30SEP03	18		0										
5C0418		FM 16 DPD ready for CDE	0		30SEP03	18		0										
4.1.5.5.5 CDE I&T																		
4.1.5.5.5.1 VM2 CDE I&T																		
4.1.5.5.5.1.1 CRYSTAL TEST																		
5C0425		tests (dimensions)	5	29JUN01A	05JUL01A			100										
5C0424		Crystal delivery	0		29JUN01A			100										
5C0426		tests on cosmic bench(12 crystals)	15	06JUL01A	26JUL01A			100										
5C0422		Delivery VM Csl (24) to F	0		28SEP01A			100										
4.1.5.5.5.1.2 CDE MANUFACTURING FOR VM2																		
5C0428		PIN ready for gluing	0		02OCT01A			100										
5C0429		gluing PIN diodes on crystals & test	12	24OCT01A	08NOV01	116		50										
5C0430		wrapping and tests on cosmic bench	5	09NOV01	15NOV01	116		0										
5C0431		first 3 CDE ready for structure	0		13NOV01	120		0										
5C0432		Last 3 CDE ready for integration	0		19NOV01	116		0										

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year									
									FY01	FY02	FY03	FY04	FY05	FY06	FY07			
4.1.5.5.2 EM CDE A&T																		
4.1.5.5.2.1 SWEDISH CRYSTALS RECEIPT																		
5C0435		Begin Delivery from S (110)	0		19SEP01A			100										
5C0436		Crystal receipt	23	20SEP01A	22OCT01A			100										
5C0437		dimensional measurements	23	21SEP01A	23OCT01A			100										
5C0438		measurements on cosmic bench	23	25SEP01A	25OCT01A			100										
4.1.5.5.2.2 EM's CDE ASSEMBLING																		
5C0440		Assy of CDE parts	0		09OCT01A			100										
5C0441		gluing of 96 CDE	40	10OCT01A	06DEC01	227		38										
5C0442		Gluing vérification	33	22OCT01A	07DEC01	227		22										
5C0443		Wrapping	33	29OCT01A	14DEC01	227		7										
5C0444		Light yield measurements	37	31OCT01A	02JAN02	227		3										
5C0445		Packing,forward,unpacking CDE	34	02NOV01	21DEC01	227		0										
5C0446		CDE ready for EM assembly	0		21DEC01	227		0										
4.1.5.5.3 QM-FM CDE A&T																		
5C0448		call for tender	136	14JAN02*	26JUL02	61		0										
5C0449		order	20	29JUL02*	23AUG02	61		0										
5C0450		Delivery of the first tested diodes	0		28OCT02	16		0										
5C0451		manufacturing of FM A CDE in a company	15	29OCT02	18NOV02	16		0										
5C0452		FM A CDE receipt on test benches	10	05NOV02	18NOV02	16		0										
5C0453		FM A CDE ready	0		18NOV02	16		0										
5C0454		FM B Diodes delivery	0		20NOV02	25		0										
5C0455		FM B CDE Assembly	20	25NOV02	20DEC02	25		0										
5C0457		FM 1 Diodes delivery	0		09DEC02	53		0										
5C0458		FM 1 CDE Assembly	14	10DEC02	07JAN03	53		0										
5C0460		FM 2 Diodes delivery	0		19DEC02	69		0										
5C0456		FM B CDE ready	0		20DEC02	25		0										
5C0461		FM 2 CDE Assembly	10	20DEC02	13JAN03	69		0										
5C0459		FM 1 CDE ready	0		07JAN03	53		0										
5C0462		FM 2 CDE ready	0		13JAN03	69		0										
5C0463		FM 3 Diodes delivery	0		22JAN03	66		0										
5C0466		FM 4 Diodes delivery	0		23JAN03	65		0										
5C0464		FM 3 CDE Assembly	7	23JAN03	31JAN03	66		0										
5C0467		FM 4 CDE Assembly	15	24JAN03	13FEB03	65		0										
5C0465		FM 3 CDE ready	0		31JAN03	66		0										
5C0469		FM 5 Diodes delivery	0		12FEB03	61		0										
5C0468		FM 4 CDE ready	0		13FEB03	65		0										
5C0470		FM 5 CDE Assembly	15	13FEB03	06MAR03	61		0										
5C0471		FM 5 CDE ready	0		06MAR03	61		0										
5C0472		FM 6 Diodes delivery	0		12MAR03	52		0										
5C0473		FM 6 CDE Assembly	15	13MAR03	02APR03	52		0										
5C0475		FM 7 Diodes delivery	0		26MAR03	51		0										
5C0476		FM 7 CDE Assembly	15	27MAR03	16APR03	51		0										
5C0474		FM 6 CDE ready	0		02APR03	52		0										
5C0478		FM 8 Diodes delivery	0		14APR03	48		0										
5C0479		FM 8 CDE Assembly	15	15APR03	05MAY03	48		0										
5C0477		FM 7 CDE ready	0		16APR03	51		0										
5C0480		FM 8 CDE ready	0		05MAY03	48		0										
5C0481		FM 9 Diodes delivery	0		07MAY03	41		0										
5C0482		FM 9 CDE Assembly	15	08MAY03	29MAY03	41		0										
5C0484		FM 10 Diodes delivery	0		22MAY03	41		0										
5C0485		FM 10 CDE Assembly	15	23MAY03	13JUN03	41		0										
5C0483		FM 9 CDE ready	0		29MAY03	41		0										
5C0487		FM 11 Diodes delivery	0		06JUN03	44		0										
5C0488		FM 11 CDE Assembly	15	09JUN03	27JUN03	44		0										
5C0486		FM 10 CDE ready	0		13JUN03	41		0										
5C0489		FM 11 CDE ready	0		27JUN03	44		0										
5C0490		FM 12 Diodes delivery	0		03JUL03	35		0										
5C0491		FM 12 CDE Assembly	15	07JUL03	25JUL03	35		0										
5C0493		FM 13 Diodes delivery	0		15JUL03	37		0										
5C0494		FM 13 CDE Assembly	15	16JUL03	05AUG03	37		0										
5C0492		FM 12 CDE ready	0		25JUL03	35		0										
5C0496		FM 14 Diodes delivery	0		30JUL03	39		0										
5C0497		FM 14 CDE Assembly	15	31JUL03	20AUG03	39		0										
5C0495		FM 13 CDE ready	0		05AUG03	37		0										
5C0498		FM 14 CDE ready	0		20AUG03	39		0										
5C0499		FM 15 Diodes delivery	0		28AUG03	28		0										
5C0500		FM 15 CDE Assembly	15	29AUG03	19SEP03	28		0										
5C0501		FM 15 CDE ready	0		19SEP03	28		0										
5C0502		FM 16 Diodes delivery	0		30SEP03	18		0										
5C0503		FM 16 CDE Assembly	15	01OCT03	21OCT03	18		0										
5C0504		FM 16 CDE ready	0		21OCT03	18		0										
4.1.5.5.5 CDE TEST GSE																		
4.1.5.5.5.1 GLUING TOOLS FOR DOUBLE PINS																		
5C0509		Studying	15	18JUN01A	06JUL01A			100										
5C0510		manufacturing	16	09JUL01A	30JUL01A			100										
5C0511		tooling test use	15	31JUL01A	20AUG01A			100										
4.1.5.5.5.2 GLUING TEST BENCH																		
5C0513		bench spec	145	11DEC00A	13JUL01A			100										
5C0516		optical and mechanical supplying	65	01JUN01A	31AUG01A			100										
5C0514		test bench studies	42	04JUN01A	01AUG01A			100										
5C0518		reading electronic	58	25JUN01A	14SEP01A			100										
5C0517		radiative source	40	09JUL01A	31AUG01A			100										
5C0519		Data acquisition	39	16JUL01A	07SEP01A			100										
5C0515		updating bench spec	0		01AUG01A			100										
5C0520		Building up and testing bench	25	17SEP01A	19OCT01A			100										

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01 FY02 FY03 FY04 FY05 FY06 FY07															
4.1.5.6 PRE-ELECTRONICS MODULE (PEM)																								
4.1.5.6.1 PEM STRUCTURE FAB & TEST																								
4.1.5.6.1.1 VM2 STRUCTURE																								
4.1.5.6.1.1.1 STRUCTURE MATL SUPPLY AND TEST																								
5C0526		prépreg evaluation+ supplying	72	21MAR01A	29JUN01A			100																
5C0528		supplying silicone. Rope	43	01MAY01A	29JUN01A			100																
5C0527		prepreg tests	10	02JUL01A	17JUL01A			100																
5C0529		Qualification tests of silicone rope under load	98	02JUL01A	16NOV01	1,075		88																
5C0530		samples Outgassing & mechanical tests	19	27AUG01A	21SEP01A			100																
4.1.5.6.1.1.2 STRUCTURE HARDWARE & TESTS																								
5C0533		insert fabrication	15	29MAY01A	15JUN01A			100																
5C0536		Mechanical parts fabrication	64	04JUN01A	31AUG01A			100																
5C0534		Insert pulling tests	30	25JUN01A	03AUG01A			100																
5C0535		Composite Structure Fab	10	20JUL01A	31JUL01A			100																
5C0532		Csl log end damper	24	06AUG01A	07SEP01A			100																
4.1.5.6.1.1.3 STRUCTURE FABRICATION																								
5C0538		Preassembly & metrology	5	10SEP01A	14SEP01A			100																
5C0539		VM2 structure ready	0		14SEP01A			100																
4.1.5.6.1.2 EM STRUCTURE																								
4.1.5.6.1.2.1 STRUCTURES MATERIAL SUPPLY & TEST																								
5C0543		Pulling insert test and qualification	15	01OCT01A	19OCT01A			100																
5C0546		Structural material supplying	39	01OCT01A	26NOV01	239		54																
5C0544		inserts supplying	10	22OCT01A	02NOV01	227		80																
5C0542		silicone ropes supplying	15	22OCT01A	09NOV01	255		53																
5C0547		Structure hardware supplying	25	29OCT01A	04DEC01	220		8																
5C0545		tests on composite	10	05NOV01	16NOV01	227		0																
4.1.5.6.1.2.2 EM STRUCTURE MFG																								
5C0550		enclosure plate procurement	40	01OCT01A	27NOV01	237		53																
5C0551		Structure elements realization	15	05NOV01*	27NOV01	237		0																
5C0549		Manufacturing structure	15	30NOV01*	20DEC01	220		0																
4.1.5.6.1.2.3 EM STRUCTURE QUALIFICATION																								
5C0553		Structure qualification	8	21DEC01*	10JAN02	220		0																
5C0554		Structure ready	0		10JAN02	220		0																
4.1.5.6.1.3 QM-FM STRUCTURE																								
4.1.5.6.1.3.1 QMA STRUCTURE																								
4.1.5.6.1.3.1.1 STRUCTURE FAB																								
5C0558		Material supplies	50	24JUN02*	03SEP02	35		0																
5C0561		enclosure plate	30	13AUG02*	24SEP02	35		0																
5C0559		Manufacturing structures	15	04SEP02*	24SEP02	35		0																
5C0560		Structure elements realization	15	04SEP02*	24SEP02	35		0																
4.1.5.6.1.3.1.2 QMA STRUCTURE QUALIFICATION																								
5C0563		Structure qualification	20	25SEP02	22OCT02	35		0																
5C0564		Structure ready for CDE insertion (A3 goto E3)	0		22OCT02	35		0																
4.1.5.6.1.3.2 FM B - 16 STRUCTURES																								
4.1.5.6.1.3.2.1 STRUCTURES FAB																								
5C0569		enclosure plate	25	12AUG02*	16SEP02	67		0																
5C0568		Structure elements realization	15	16SEP02*	04OCT02	53		0																
5C0567		Manufacturing structures	15	26SEP02*	16OCT02	45		0																
4.1.5.6.1.3.2.2 FMB STRUCTURE QUALIFICATION																								
5C0571		Structure qualification	25	17OCT02	20NOV02	45		0																
5C0572		Structure ready for CDE insertion (A4 goto E4)	0		20NOV02	45		0																
4.1.5.6.1.3.2.3 FM 1 - 16 STRUCTURE FAB																								
5C0575		Manufacturing structures	15	20NOV02*	12DEC02	194		0																
5C0576		Structure elements realization	15	29NOV02	19DEC02	194		0																
5C0577		enclosure plate	40	06DEC02	11FEB03	194		0																
5C0578		Structure ready for assy (A20 goto E20)	0		11FEB03	194		0																
4.1.5.6.1.4 STRUCTURE GSE																								
4.1.5.6.1.4.1 VM2 & EM TOOLING FOR COMPOSITE STRUCTURE																								
5C0581		Design	30	04APR01A	15MAY01A			100																
5C0582		Procurement	10	16MAY01A	29MAY01A			100																
5C0583		Toolings parts production	35	30MAY01A	17JUL01A			100																
5C0584		tooling ready for VM2 structure	0		17JUL01A			100																
5C0585		Tooling optimization	10	15OCT01A	26OCT01A			100																
5C0586		tooling ready for EM structure	0		26OCT01A			100																
4.1.5.6.1.4.2 QM & FM TOOLS FOR STRUCTURE REALIZATION																								
5C0588		Design	10	06MAY02*	17MAY02	44		0																
5C0589		procurement	15	20MAY02*	10JUN02	44		0																
5C0590		fabrication	40	11JUN02*	06AUG02	44		0																
5C0591		acceptance tests	10*	07AUG02*	20AUG02	44		0																
5C0592		tool ready	0		20AUG02	44		0																
4.1.5.6.2 PEM ASSEMBLY & TEST																								
4.1.5.6.2.1 VM2 INTEGRATION & TEST																								
4.1.5.6.2.1.1 VM2 INTEGRATION																								
5C0596		VM2 start assy (E1 comes from A1;D34)	0		19NOV01	116		0																
5C0597		Integration of 12 cristals in structure	5	20NOV01	28NOV01	116		0																
5C0598		All structure parts assembling	2	29NOV01	30NOV01	116		0																
4.1.5.6.2.1.2 VM2 TESTING																								
5C0600		VM2 tests on CEA bench	3	10DEC01*	12DEC01	111		0																
5C0601		Enviromental test	11	13DEC01	07JAN02	111		0																
5C0602		measurement on test bench after tests	5	08JAN02	14JAN02	111		0																
5C0603		tests analysis	10	15JAN02	29JAN02	111		0																
5C0604		VM2 measurement ends	0		29JAN02	111		0																
4.1.5.6.2.2 EM INTEGRATION & TEST																								
4.1.5.6.2.2.1 EM INTEGRATION																								
5C0607		EM start assy	0		10JAN02	220		0																
5C0608		CDE insertion in structure	10	11JAN02	25JAN02	220		0																
5C0609		PEM assembly	5	28JAN02	01FEB02	220		0																
4.1.5.6.2.2.2 EM TESTING & CALIBRATION																								
5C0611		EM PEM bench test	25	04FEB02	11MAR02	220		0																

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
5C0612		End of EM light yield tests	0		11MAR02	220		0							
5C0613		Environmental tests on PEM	20	12MAR02	08APR02	220		0							
5C0614		Test on PEM bench	10	09APR02	22APR02	220		0							
5C0615		Shipment of EM PEM to NRL	3	23APR02	25APR02	220		0							
4.1.5.6.2.3 QM-FM I&T															
4.1.5.6.2.3.1 FM A (QUAL) INTEGRATION & TEST															
4.1.5.6.2.3.1.1 FM A INTEGRATION															
5C0619		FM A Start Assy	0		18NOV02	16		0							
5C0620		CDE insertion in structure	10	19NOV02*	04DEC02	16		0							
5C0621		PEM assembly	5	05DEC02	11DEC02	16		0							
4.1.5.6.2.3.1.2 FM A TESTING & CALIBRATION															
5C0623		vibrations, temperature on FMA	17	12DEC02	14JAN03	16		0							
5C0624		Optical Test on FMA bench	15	15JAN03	05FEB03	16		0							
5C0625		Shipment of FMA PEM to NRL	4	06FEB03	11FEB03	16		0							
4.1.5.6.2.3.2 FM B INTEGRATION & TEST															
4.1.5.6.2.3.2.1 FM B INTEGRATION															
5C0628		FM B Start Assy	0		20DEC02*	25		0							
5C0629		CDE insertion in structure	5	23DEC02	07JAN03	25		0							
5C0630		PEM assembly	2	08JAN03	09JAN03	25		0							
4.1.5.6.2.3.2.2 FM B TESTING & CALIBRATION															
5C0632		vibrations, temperature	15	10JAN03	31JAN03	25		0							
5C0633		Optical Test on bench	10	03FEB03	14FEB03	25		0							
5C0634		Shipment of PEM to NRL	4	18FEB03	21FEB03	25		0							
4.1.5.6.2.3.3 FM 1 INTEGRATION & TEST															
4.1.5.6.2.3.3.1 FM 1 INTEGRATION															
5C0637		FM 1 Start Assy	0		07JAN03*	53		0							
5C0638		CDE insertion in structure	10	08JAN03	22JAN03	53		0							
5C0639		PEM assembly	5	23JAN03	29JAN03	53		0							
4.1.5.6.2.3.3.2 FM 1 TESTING & CALIBRATION															
5C0641		vibrations, temperature	15	30JAN03	20FEB03	53		0							
5C0642		Optical Test on bench	9	21FEB03	05MAR03	53		0							
5C0643		Shipment of PEM to NRL	4	06MAR03	11MAR03	53		0							
4.1.5.6.2.3.4 FM 2 INTEGRATION & TEST															
4.1.5.6.2.3.4.1 FM 2 INTEGRATION															
5C0646		FM 2 Start Assy	0		13JAN03	69		0							
5C0647		CDE insertion in structure	5	14JAN03*	21JAN03	69		0							
5C0648		PEM assembly	5	22JAN03	28JAN03	69		0							
4.1.5.6.2.3.4.2 FM 2 TESTING & CALIBRATION															
5C0650		vibrations, temperature	15	29JAN03	19FEB03	69		0							
5C0651		Optical Test on bench	9	20FEB03	04MAR03	69		0							
5C0652		Shipment of PEM to NRL	4	05MAR03	10MAR03	69		0							
4.1.5.6.2.3.5 FM 3 INTEGRATION & TEST															
4.1.5.6.2.3.5.1 FM 3 INTEGRATION															
5C0655		FM 3 Start Assy	0		31JAN03	66		0							
5C0656		CDE insertion in structure	9	03FEB03*	13FEB03	66		0							
5C0657		PEM assembly	5	14FEB03	21FEB03	66		0							
4.1.5.6.2.3.5.2 FM 3 TESTING & CALIBRATION															
5C0659		vibrations, temperature	14	24FEB03	13MAR03	66		0							
5C0660		Optical Test on bench	10	14MAR03	27MAR03	66		0							
5C0661		Shipment of PEM to NRL	5	28MAR03	03APR03	66		0							
4.1.5.6.2.3.6 FM 4 INTEGRATION & TEST															
4.1.5.6.2.3.6.1 FM 4 INTEGRATION															
5C0664		FM 4 Start Assy	0		13FEB03	65		0							
5C0665		CDE insertion in structure	10	14FEB03*	28FEB03	65		0							
5C0666		PEM assembly	5	03MAR03	07MAR03	65		0							
4.1.5.6.2.3.6.2 FM 4 TESTING & CALIBRATION															
5C0668		vibrations, temperature	15	10MAR03	28MAR03	65		0							
5C0669		Optical Test on bench	10	31MAR03	11APR03	65		0							
5C0670		Shipment of PEM to NRL	5	14APR03	18APR03	65		0							
4.1.5.6.2.3.7 FM 5 INTEGRATION & TEST															
4.1.5.6.2.3.7.1 FM 5 INTEGRATION															
5C0673		FM 5 Start Assy	0		06MAR03	61		0							
5C0674		CDE insertion in structure	10	07MAR03*	20MAR03	61		0							
5C0675		PEM assembly	5	21MAR03	27MAR03	61		0							
4.1.5.6.2.3.7.2 FM 5 TESTING & CALIBRATION															
5C0677		vibrations, temperature	15	28MAR03	17APR03	61		0							
5C0678		Optical Test on bench	10	18APR03	01MAY03	61		0							
5C0679		Shipment of PEM to NRL	5	02MAY03	08MAY03	61		0							
4.1.5.6.2.3.8 FM 6 INTEGRATION & TEST															
4.1.5.6.2.3.8.1 FM 6 INTEGRATION															
5C0682		FM 6 Start Assy	0		02APR03	52		0							
5C0683		CDE insertion in structure	10	03APR03*	16APR03	52		0							
5C0684		PEM assembly	5	17APR03	23APR03	52		0							
4.1.5.6.2.3.8.2 FM 6 TESTING & CALIBRATION															
5C0686		vibrations, temperature	15	24APR03	14MAY03	52		0							
5C0687		Optical Test on bench	10	15MAY03	29MAY03	52		0							
5C0688		Shipment of PEM to NRL	5	30MAY03	05JUN03	52		0							
4.1.5.6.2.3.9 FM 7 INTEGRATION & TEST															
4.1.5.6.2.3.9.1 FM 7 INTEGRATION															
5C0691		FM 7 Start Assy	0		16APR03	51		0							
5C0692		CDE insertion in structure	10	17APR03*	30APR03	51		0							
5C0693		PEM assembly	5	01MAY03	07MAY03	51		0							
4.1.5.6.2.3.9.2 FM 7 TESTING & CALIBRATION															
5C0695		vibrations, temperature	15	08MAY03	29MAY03	51		0							
5C0696		Optical Test on bench	10	30MAY03	12JUN03	51		0							
5C0697		Shipment of PEM to NRL	5	13JUN03	19JUN03	51		0							
4.1.5.6.2.3.A FM 8 INTEGRATION & TEST															
4.1.5.6.2.3.A.1 FM 8 INTEGRATION															
5C0700		FM 8 Start Assy	0		05MAY03	48		0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
5C0701		CDE insertion in structure	10	06MAY03*	19MAY03	48		0							
5C0702		PEM assembly	5	20MAY03	27MAY03	48		0							
4.1.5.6.2.3.A.2 FM 8 TESTING & CALIBRATION															
5C0704		vibrations, temperature	15	28MAY03	17JUN03	48		0							
5C0705		Optical Test on bench	10	18JUN03	01JUL03	48		0							
5C0706		Shipment of PEM to NRL	5	02JUL03	09JUL03	48		0							
4.1.5.6.2.3.B FM 9 INTEGRATION & TEST															
4.1.5.6.2.3.B.1 FM 9 INTEGRATION															
5C0709		FM 9 Start Assy	0		29MAY03	41		0							
5C0710		CDE insertion in structure	10	30MAY03*	12JUN03	41		0							
5C0711		PEM assembly	5	13JUN03	19JUN03	41		0							
4.1.5.6.2.3.B.2 FM 9 TESTING & CALIBRATION															
5C0713		vibrations, temperature	15	20JUN03	11JUL03	41		0							
5C0714		Optical Test on bench	10	14JUL03	25JUL03	41		0							
5C0715		Shipment of PEM to NRL	5	28JUL03	01AUG03	41		0							
4.1.5.6.2.3.C FM 10 INTEGRATION & TEST															
4.1.5.6.2.3.C.1 FM 10 INTEGRATION															
5C0718		FM 10 Start Assy	0		13JUN03	41		0							
5C0719		CDE insertion in structure	10	16JUN03*	27JUN03	41		0							
5C0720		PEM assembly	5	30JUN03	07JUL03	41		0							
4.1.5.6.2.3.C.2 FM 10 TESTING & CALIBRATION															
5C0722		vibrations, temperature	15	08JUL03	28JUL03	41		0							
5C0723		Optical Test on bench	10	29JUL03	11AUG03	41		0							
5C0724		Shipment of PEM to NRL	5	12AUG03	18AUG03	41		0							
4.1.5.6.2.3.D FM 11 INTEGRATION & TEST															
4.1.5.6.2.3.D.1 FM 11 INTEGRATION															
5C0727		FM 11 Start Assy	0		27JUN03	44		0							
5C0728		CDE insertion in structure	10	30JUN03*	14JUL03	44		0							
5C0729		PEM assembly	3	15JUL03	17JUL03	44		0							
4.1.5.6.2.3.D.2 FM 11 TESTING & CALIBRATION															
5C0731		vibrations, temperature	14	18JUL03	06AUG03	44		0							
5C0732		Optical Test on bench	10	07AUG03	20AUG03	44		0							
5C0733		Shipment of PEM to NRL	5	21AUG03	27AUG03	44		0							
4.1.5.6.2.3.E FM 12 INTEGRATION & TEST															
4.1.5.6.2.3.E.1 FM 12 INTEGRATION															
5C0736		FM 12 Start Assy	0		25JUL03	35		0							
5C0737		CDE insertion in structure	7	28JUL03*	05AUG03	35		0							
5C0738		PEM assembly	5	06AUG03	12AUG03	35		0							
4.1.5.6.2.3.E.2 FM 12 TESTING & CALIBRATION															
5C0740		vibrations, temperature	15	13AUG03	03SEP03	35		0							
5C0741		Optical Test on bench	10	04SEP03	17SEP03	35		0							
5C0742		Shipment of PEM to NRL	5	18SEP03	24SEP03	35		0							
4.1.5.6.2.3.F FM 13 INTEGRATION & TEST															
4.1.5.6.2.3.F.1 FM 13 INTEGRATION															
5C0745		FM 13 Start Assy	0		05AUG03	37		0							
5C0746		CDE insertion in structure	8	06AUG03*	15AUG03	37		0							
5C0747		PEM assembly	5	18AUG03	22AUG03	37		0							
4.1.5.6.2.3.F.2 FM 13 TESTING & CALIBRATION															
5C0749		vibrations, temperature	15	25AUG03	15SEP03	37		0							
5C0750		Optical Test on bench	10	16SEP03	29SEP03	37		0							
5C0751		Shipment of PEM to NRL	5	30SEP03	06OCT03	37		0							
4.1.5.6.2.3.G FM 14 INTEGRATION & TEST															
4.1.5.6.2.3.G.1 FM 14 INTEGRATION															
5C0754		FM 14 Start Assy	0		20AUG03	39		0							
5C0755		CDE insertion in structure	5	21AUG03*	27AUG03	39		0							
5C0756		PEM assembly	5	28AUG03	04SEP03	39		0							
4.1.5.6.2.3.G.2 FM 14 TESTING & CALIBRATION															
5C0758		vibrations, temperature	15	05SEP03	25SEP03	39		0							
5C0759		Optical Test on bench	10	26SEP03	09OCT03	39		0							
5C0760		Shipment of PEM to NRL	5	10OCT03	16OCT03	39		0							
4.1.5.6.2.3.H FM 15 INTEGRATION & TEST															
4.1.5.6.2.3.H.1 FM 15 INTEGRATION															
5C0763		FM 15 Start Assy	0		19SEP03	28		0							
5C0764		CDE insertion in structure	5	22SEP03*	26SEP03	28		0							
5C0765		PEM assembly	5	29SEP03	03OCT03	28		0							
4.1.5.6.2.3.H.2 FM 15 TESTING & CALIBRATION															
5C0767		vibrations, temperature	15	06OCT03	24OCT03	28		0							
5C0768		Optical Test on bench	10	27OCT03	07NOV03	28		0							
5C0769		Shipment of PEM to NRL	5	10NOV03	14NOV03	28		0							
4.1.5.6.2.3.I FM 16 INTEGRATION & TEST															
4.1.5.6.2.3.I.1 FM 16 INTEGRATION															
5C0772		FM 16 Start Assy	0		21OCT03	18		0							
5C0773		CDE insertion in structure	5	22OCT03*	28OCT03	18		0							
5C0774		PEM assembly	5	29OCT03	04NOV03	18		0							
4.1.5.6.2.3.I.2 FM 16 TESTING & CALIBRATION															
5C0776		vibrations, temperature	13	05NOV03	21NOV03	18		0							
5C0777		Optical Test on bench	10	24NOV03	09DEC03	18		0							
5C0778		Shipment of PEM to NRL	5	10DEC03	16DEC03	18		0							
4.1.5.6.2.4 PEM GSE															
4.1.5.6.2.4.1 MECH GSE															
4.1.5.6.2.4.1.1 VM2 ASSEMBLY TOOLS FOR CDE															
5C0782		Studies	15	07MAY01A	25MAY01A			100							
5C0783		Manufacturing	15	29MAY01A	18JUN01A			100							
5C0784		Tests on Tooling	10	18JUN01A	29JUN01A			100							
4.1.5.6.2.4.1.2 EM INSERTION TOOL FOR CDE															
5C0786		Tools upgrading	29	15OCT01A	26NOV01	246		40							
4.1.5.6.2.4.2 TEST GSE															
4.1.5.6.2.4.2.1 VM2 TEST TOOLS															
5C0790		Cosmic bench upgrade for VM2	30	11JUN01A	20JUL01A			100							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01 FY02 FY03 FY04 FY05 FY06 FY07							
5C0789		CEA bench preparation VM2 (E25 from B25)	0		11JUN01A			100	◆CEA bench preparation VM2 (E25 from B25)							
4.1.5.6.2.4.2.2 PEM BECH REALIZATION																
5C0793		Analogical & Front End Electronic Design	59	12FEB01A	04MAY01A			100	▲ Analogical & Front End Electronic Design							
5C0792		Mechanical Supplying	49	02APR01A	08JUN01A			100	▲ Mechanical Supplying							
5C0794		Analogical & Front End Electronic Fab	67	07MAY01A	10AUG01A			100	▲ Analogical & Front End Electronic Fab							
5C0795		Temporary PEM Test Bench	0		10AUG01A			100	◆ Temporary PEM Test Bench							
5C0796		ADC Supplying + Software	74	13AUG01A	27NOV01	245		75	▲ ADC Supplying + Software							
5C0797		Final PEM Test Bench and Receipt	15	28NOV01*	18DEC01	245		0	▽ Final PEM Test Bench and Receipt							
4.1.5.6.2.5 PEM ASSEMBLY FACILITIES																
4.1.5.6.2.5.1 CLEAN ROOM FOR PEM																
5C0800		Clean room studies	100	13FEB01A	02JUL01A			100	▲ Clean room studies							
5C0801		65.5Clean room procurement & realization	119	03JUL01A	02JAN02	239		66	▲ 65.5Clean room procurement & realization							
5C0802		Clean room ready for PEM integration	0		02JAN02	239		0	◇ Clean room ready for PEM integration							
4.1.5.6.2.5.2 CLEAN ROOM FOR CDE																
5C0804		Shipment of FM1 PEM to NRL	108	19MAR01A	17AUG01A			100	▲ Shipment of FM1 PEM to NRL							
5C0805		Clean room ready for CDE assy (E30 goto D28)	0		17AUG01A			100	◆ Clean room ready for CDE assy (E30 goto D28)							
4.1.5.7 ANALOG FRONT END ELECTRONICS																
4.1.5.7.1 AFEE DESIGN (NRL)																
5C0812	DN	CAL AFEE Design (FY00)	247	03APR00A	29SEP00A		A	100	▲ CAL AFEE Design (FY00)							
5C0812A	DN	CAL AFEE Design M&S (FY00)	247	03APR00A	29SEP00A		A	100	▲ CAL AFEE Design M&S (FY00)							
5C0812B	DN	CAL AFEE Design (FY01)	247	02OCT00A	28SEP01A		A	100	▲ CAL AFEE Design (FY01)							
5C0812C	DN	CAL AFEE Design M&S (FY01)	247	02OCT00A	28SEP01A		A	100	▲ CAL AFEE Design M&S (FY01)							
5C0809		Cal-T&DF I/f concept definition	56	02JAN01A	22MAR01A			100	▲ Cal-T&DF I/f concept definition							
5C0810		AFEE design (IPDR)	64	30APR01A	26JUL01A			100	▲ AFEE design (IPDR)							
5C0811		AFEE Detailed Design (ICDR)	207	30JUL01A	04JUN02	1		30	▲ AFEE Detailed Design (ICDR)							
5C0812H	DN	CAL AFEE Design Travel (FY02)	247	01AUG01A	31JUL02	658	A	25	▲ CAL AFEE Design Travel (FY02)							
5C0812F	DN	CAL AFEE Design - Tech Certification Training	120	01OCT01A	01APR02	158	A	17	▲ CAL AFEE Design - Tech Certification Training							
5C0812D	DN	CAL AFEE Design (FY02)	247	01OCT01A	30SEP02	158	A	8	▲ CAL AFEE Design (FY02)							
5C0812E	DN	CAL AFEE Test Plans and Procedures (FY02)	247	01OCT01A	30SEP02	115	A	8	▲ CAL AFEE Test Plans and Procedures (FY02)							
5C0812G	DN	CAL AFEE Design - Calib. M&S (FY02 - 04)	741	01OCT01A	29SEP04	369	A	3	▲ CAL AFEE Design - Calib. M							
5C0812I	DN	CAL AFEE Design Travel (FY03)	247	01AUG02	31JUL03	658	A	0	▲ CAL AFEE Design Travel (FY03)							
4.1.5.7.2 ASIC DEVELOPMENT																
4.1.5.7.2.1 GCFC ASIC DEVELOPMENT																
5C0813	DL	SLAC GCFC Design & Test (FY01)	212	20NOV00A	28SEP01A		A	100	▲ SLAC GCFC Design & Test (FY01)							
5C0813A	DL	SLAC GCFC M&S (FY01)	212	20NOV00A	28SEP01A		A	100	▲ SLAC GCFC M&S (FY01)							
5C0814		ASIC Design Review	0		01FEB01A			100	◆ ASIC Design Review							
5C0815		Submission 1	60	26FEB01A	18MAY01A			100	▲ Submission 1							
5C0818		Submission 2	46	14MAY01A	18JUL01A			100	▲ Submission 2							
5C0816		Test for ASIC Submission 1	20	21MAY01A	15JUN01A			100	▲ Test for ASIC Submission 1							
5C0817		Redesign	20	18JUN01A	13JUL01A			100	▲ Redesign							
5C0819		Test	2	19JUL01A	20JUL01A			100	▲ Test							
5C0820		ASIC #2 available (VM units)	0		20JUL01A			100	◆ ASIC #2 available (VM units)							
5C0821		Redesign for Ver 3	20	23JUL01A	17AUG01A			100	▲ Redesign for Ver 3							
5C0822		Submission 3	66	30JUL01A	30OCT01A			100	▲ Submission 3							
5C0813B	DL	SLAC GCFC Design & Test (FY02)	246	01OCT01A	27SEP02	618	A	8	▲ SLAC GCFC Design & Test (FY02)							
5C0813C	DL	SLAC GCFC M&S (FY02)	246	01OCT01A	27SEP02	618	A	8	▲ SLAC GCFC M&S (FY02)							
5C0823	DN	Test Ver 3	13	31OCT01A	16NOV01	35	E	50	▲ Test Ver 3							
5C0824		Parts Available Ver 3	0		16NOV01	84		0	◇ Parts Available Ver 3							
5C0825		Redesign 3 for Ver 4	20	19NOV01	17DEC01	35		5	▽ Redesign 3 for Ver 4							
5C0826		Submission 4	66	18DEC01	01APR02	35		0	▲ Submission 4							
5C0827	DN	Test Ver 4	16	02APR02	23APR02	35	E	0	▽ Test Ver 4							
5C0828		Parts Available Ver 4	0		23APR02	86		0	◇ Parts Available Ver 4							
5C0829		Redesign	20	24APR02	21MAY02	86		0	▽ Redesign							
5C0829A	DN	Create Final Test Procedure & Test Vectors	22	22MAY02	21JUN02	92	E	0	▽ Create Final Test Procedure & Test Vectors							
5C0813D	DN	GCFC Travel (FY03)	246	01OCT02*	29SEP03	617	A	0	▲ GCFC Travel (FY03)							
5C0829B	DN	Initiate Procurement for Flt Test, Qual & Burn In	1	02OCT02	02OCT02	22	E	0	▽ Initiate Procurement for Flt Test, Qual & Burn In							
5C0830	DN	Purchase Flight GCFC Parts & Pkging	1	02OCT02	02OCT02	9	E	0	▽ Purchase Flight GCFC Parts & Pkging							
5C0830A		Submission Final	66	03OCT02	15JAN03	9		0	▲ Submission Final							
5C0830B	DN	Receive Flight GCFC Parts & Pkging	1	16JAN03	16JAN03	9	E	0	▽ Receive Flight GCFC Parts & Pkging							
5C0831	DN	Test	12	17JAN03	04FEB03	9	E	0	▽ Test							
5C0832	DN	Flight Automated Testing	10	05FEB03	19FEB03	9	E	0	▽ Flight Automated Testing							
5C0832A		Flight Qual, burn-in, etc.	24	05FEB03	11MAR03	104		0	▽ Flight Qual, burn-in, etc.							
5C0833		GCFC ASIC Parts Available - Flight	0		19FEB03	9		0	◇ GCFC ASIC Parts Available - Flight							
4.1.5.7.2.2 DIGITAL ASIC DEVELOPMENT																
5C0834	DN	Digital ASIC Design (FY01)	102	07MAY01A	28SEP01A		A	100	▲ Digital ASIC Design (FY01)							
5C0834A	DN	Digital ASIC M&S (FY01)	42	07MAY01A	28SEP01A		E	100	▲ Digital ASIC M&S (FY01)							
5C0835		GCRC Design review	0		27JUL01A			100	◆ GCRC Design review							
5C0834C	DN	Digital ASIC Travel (FY02)	247	01OCT01A	30SEP02	616	A	8	▲ Digital ASIC Travel (FY02)							
5C0834B	DN	Digital ASIC Software Maintenance	494	01OCT01A	30SEP03	616	A	4	▲ Digital ASIC Software Maintenance							
5C0841A		GCRC for EM Ready	0		20MAR02	59		0	◇ GCRC for EM Ready							
5C0834E	DN	Digital ASIC Travel (FY03)	247	01OCT02	30SEP03	616	A	0	▲ Digital ASIC Travel (FY03)							
5C0851		Digital ASIC Parts Available - Flight	0		27NOV02	95		0	◇ Digital ASIC Parts Available - Flight							
5C0850		Flight Qual, burn-in, etc	20	28NOV02	03JAN03	39		0	▽ Flight Qual, burn-in, etc							
4.1.5.7.2.2.1 DIGITAL ASIC DESIGN																
5C0836	DN	Digital ASIC design	35	01OCT01A	04DEC01	39	E	50	▲ Digital ASIC design							
5C0837	DN	ASIC Synthesis	18	22OCT01A	14NOV01	39	E	50	▲ ASIC Synthesis							
5C0838	DN	FPGA GCRC Simulation	20	22OCT01A	16NOV01	42	E	50	▲ FPGA GCRC Simulation							
5C0838A	DN	GCRC ASIC Layout	18	29OCT01A	21NOV01	39	E	50	▲ GCRC ASIC Layout							
5C0838B	DN	Plastic Packaging Audit and Qualification	88	29OCT01A	14MAR02	208	A	2	▲ Plastic Packaging Audit and Qualification							
5C0841B	DN	GCRC Rad test	1	21MAR02	21MAR02	140	E	0	▽ GCRC Rad test							
4.1.5.7.2.2.2 DIGITAL ASIC PRODUCTION																
5C0840	DN	Fab 1 [EM Model Quantities]	64	26NOV01	06MAR02	39	E	0	▲ Fab 1 [EM Model Quantities]							
5C0841	DN	Test 1	10	07MAR02	20MAR02	39	E	0	▽ Test 1							
5C0842	DN	Redesign 1	10	21MAR02	03APR02	39	E	0	▽ Redesign 1							
5C0843	DN	Fab 2	64	04APR02	03JUL02	39	E	0	▲ Fab 2							
5C0844	DN	Test 2	8	05JUL02	16JUL02	39	E	0	▽ Test 2							
5C0847	DN	Final Revisions	20	17JUL02	13AUG02	39	E	0	▽ Final Revisions							
5C0847C	DN	Initiate Procurement - Flt GCRC & Pkging	1	14AUG02	14AUG02	102	E	0	▽ Initiate Procurement - Flt GCRC & Pkging							
5C0847B	DN	Create Final Test Procedure & Test Vectors	22	14AUG02	13SEP02	87	E	0	▽ Create Final Test Procedure & Test Vectors							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
5C0848		Final submission & Pkging	64	14AUG02	12NOV02	39		0				▲ Final submission & Pkging			
5C0847D	DN	Initiate Procurement - Flt Test, Qual, Burn In	1	16SEP02	16SEP02	87	E	0				△ Initiate Procurement - Flt Test, Qual, Burn In			
5C0848A	DN	Receive Flt Parts	1	13NOV02	13NOV02	39	E	0				△ Receive Flt Parts			
5C0849	DN	Test	8	14NOV02	27NOV02	39	E	0				△ Test			
5C0848B	DN	Flt Parts Package Test	22	14NOV02	17DEC02	45	E	0				△ Flt Parts Package Test			
5C0850A	DN	Receive Tested parts	1	06JAN03	06JAN03	39	E	0				△ Receive Tested parts			
4.1.5.7.3 GCFE TEST BOARD															
5C0855	DN	PCB design	22	09MAY01A	07JUN01A		E	100				▲ PCB design			
5C0856	DN	GFCE PCB Layout	10	08JUN01A	21JUN01A		E	100				▲ GFCE PCB Layout			
5C0857	DN	GFCE PCB Fabrication	10	22JUN01A	05JUL01A		E	100				▲ GFCE PCB Fabrication			
5C0859	DN	Design, fab FPGA firmware	40	06JUL01A	04SEP01A		E	100				▲ Design, fab FPGA firmware			
5C0860	DN	PC Labview Software	80	06JUL01A	11OCT01A		A	100				▲ PC Labview Software			
5C0858	DN	GFCE PCB Assembly	10	23JUL01A	03AUG01A		E	100				▲ GFCE PCB Assembly			
5C0861	DN	GFCE PCB Test	10	12OCT01A	25OCT01A		E	100				▲ GFCE PCB Test			
5C0862	DN	GFCE Rad test	5	26OCT01A	01NOV01	339	E	50				▲ GFCE Rad test			
5C0862A	DN	Rad Test (Travel)	6	26OCT01A	02NOV01	339	E	50				▲ Rad Test (Travel)			
5C0863		GFCE complete	0		02NOV01	339		0				◆ GFCE complete			
4.1.5.7.4 VM FRONT END ELECTRONICS															
5C0865	DN	PCB design VM	45	16JUL01A	03OCT01A		E	100				▲ PCB design VM			
5C0867	DN	VM PCB Layout	49	16JUL01A	09OCT01A		E	100				▲ VM PCB Layout			
5C0868	DN	VM PCB Fabrication	5	10OCT01A	16OCT01A		E	100				▲ VM PCB Fabrication			
5C0869	DN	VM PCB Assembly	5	17OCT01A	23OCT01A		E	100				▲ VM PCB Assembly			
5C0870	DN	VM PCB Test	22	04DEC01	11JAN02	65	E	0				△ VM PCB Test			
5C0871	DN	VM AFEE + CDE test	10	18DEC01	09JAN02	65	E	0				△ VM AFEE + CDE test			
5C0873		AV: VM AFEE available	0		09JAN02	65		0				◆ AV: VM AFEE available			
5C0874		Digital ASIC subm 1 parts available	0		20MAR02	88		0				◆ Digital ASIC subm 1 parts available			
5C0875	DN	Digital ASIC and FPGA Test	35	21MAR02	08MAY02	88	E	0				▲ Digital ASIC and FPGA Test			
4.1.5.7.5 EM FRONT END ELECTRONICS															
5C0876	DN	PCB - X design	70	10OCT01A	29JAN02	53	A	19				▲ PCB - X design			
5C0879	DN	EM PCB X Layout	64	24OCT01A	04FEB02	75	E	50				▲ EM PCB X Layout			
5C0877	DN	PCB -Y design	62	09NOV01	19FEB02	53	E	0				▲ PCB -Y design			
5C0879A	DN	EM PCB Y Layout	64	27NOV01	07MAR02	53	E	0				▲ EM PCB Y Layout			
5C0880	DN	EM PCB X Fabrication	15	05FEB02	26FEB02	75	E	0				△ EM PCB X Fabrication			
5C0878		Design Review (Fab approval)	0		19FEB02	116		0				◆ Design Review (Fab approval)			
5C0880A	DN	EM PCB Y Fabrication	15	08MAR02	28MAR02	53	E	0				△ EM PCB Y Fabrication			
5C0881	DN	EM PCB X Assembly	10	24APR02	07MAY02	35	E	0				△ EM PCB X Assembly			
5C0881A	DN	EM PCB Y Assembly	10	24APR02	07MAY02	35	E	0				△ EM PCB Y Assembly			
5C0882	DN	EM PCB Test	5	08MAY02	14MAY02	35	E	0				△ EM PCB Test			
5C0883	DN	Functional test	10	15MAY02	29MAY02	35	E	0				△ Functional test			
5C0884	DN	Environmental test	10	30MAY02	12JUN02	35	E	0				△ Environmental test			
5C0885		AV: AFEE EM available	0		12JUN02	35		0				◆ AV: AFEE EM available			
5C0885A	DN	Revisions to Layouts	10	13JUN02	26JUN02	64	E	0				△ Revisions to Layouts			
5C0885B	DN	AFEE Rev 2 Fabrication	15	27JUN02	18JUL02	64	E	0				△ AFEE Rev 2 Fabrication			
5C0885C	DN	AFEE Rev 2 Assembly	10	19JUL02	01AUG02	64	E	0				△ AFEE Rev 2 Assembly			
5C0885D	DN	AFEE Rev 2 Test	10	02AUG02	15AUG02	64	E	0				△ AFEE Rev 2 Test			
4.1.5.7.6 FLIGHT FRONT END ELECTRONICS															
4.1.5.7.6.1 ASSEMBLE/SOLDER BOARDS															
5C0886	DN	Initiate Parts Procurements	1	20FEB02	20FEB02	116	E	0				△ Initiate Parts Procurements			
5C0886A	DN	Initiate Plastic Parts Screening Contract	1	20FEB02	20FEB02	249	E	0				△ Initiate Plastic Parts Screening Contract			
5C0886B	DN	Initiate PCB Fab Contract	1	16AUG02	16AUG02	64	E	0				△ Initiate PCB Fab Contract			
5C0886D	DN	Receive Plastic Parts & Other Parts	1	28AUG02	28AUG02	116	E	0				△ Receive Plastic Parts & Other Parts			
5C0886E		Screen Plastic Parts	22	29AUG02	30SEP02	116		0				△ Screen Plastic Parts			
5C0886F	DN	Receive Screened Plastic Parts	1	01OCT02	01OCT02	116	E	0				△ Receive Screened Plastic Parts			
5C0886C	DN	Qualify PCB Manufacturer	22	21OCT02	19NOV02	64	E	0				△ Qualify PCB Manufacturer			
5C0887		Front End Electronics (Flight version) start	0		12NOV02	69		0				◆ Front End Electronics (Flight version) start			
5C0888		PCB fab (100 boards)	14	20FEB03	11MAR03	9		0				△ PCB fab (100 boards)			
5C0888A		PCB Testing	2	12MAR03	13MAR03	9		0				△ PCB Testing			
5C0888D	DN	Receive Flt Boards	1	14MAR03	14MAR03	9	E	0				△ Receive Flt Boards			
5C0888C	DN	Flt Board Coupon Analysis	5	14MAR03	20MAR03	751	E	0				△ Flt Board Coupon Analysis			
5C0889	DN	Automated Assembly	18	17MAR03	09APR03	9	E	0				△ Automated Assembly			
4.1.5.7.6.2 4 BOARD PRODUCTION RUN															
5C0893	DN	Man Assy (4 boards)	4	10APR03	15APR03	9	E	0				△ Man Assy (4 boards)			
5C0894	DN	Functional Test	1	16APR03	16APR03	698	E	0				△ Functional Test			
5C0895	DN	Workmanship Test (TBR) EM & Qual Units Only	10	17APR03	30APR03	698	E	0				△ Workmanship Test (TBR) EM & Qual Units Only			
5C0896	DN	conformal coat	8	01MAY03	12MAY03	698	E	0				△ conformal coat			
5C0897	DN	final functional test	1	13MAY03	13MAY03	698	E	0				△ final functional test			
5C0898	DN	burn-in on EM & Qual only	15	14MAY03	04JUN03	698	E	0				△ burn-in on EM & Qual only			
5C0899		ready	0		04JUN03	698		0				◆ ready			
4.1.5.7.6.3 4 BOARD PRODUCTION RUN															
5C0901	DN	man assy (4 boards)	5	16APR03	22APR03	9	E	0				△ man assy (4 boards)			
5C0902	DN	functional test	1	23APR03	23APR03	9	E	0				△ functional test			
5C0903		workmanship test (TBR) EM & Qual units only	0		23APR03	9		0				◆ workmanship test (TBR) EM & Qual units only			
5C0904	DN	conformal coat	8	24APR03	05MAY03	9	E	0				△ conformal coat			
5C0905	DN	final functional test	1	06MAY03	06MAY03	9	E	0				△ final functional test			
5C0906		burn-in on EM & Qual only	0		06MAY03	9		0				◆ burn-in on EM & Qual only			
5C0907		ready	0		06MAY03	9		0				◆ ready			
4.1.5.7.6.4 4 BOARD PRODUCTION RUN															
5C0909	DN	man assy (4 boards)	5	23APR03	29APR03	14	E	0				△ man assy (4 boards)			
5C0910	DN	functional test	1	30APR03	30APR03	14	E	0				△ functional test			
5C0911		workmanship test (TBR) EM & Qual units only	0		30APR03	14		0				◆ workmanship test (TBR) EM & Qual units only			
5C0912	DN	conformal coat	8	01MAY03	12MAY03	14	E	0				△ conformal coat			
5C0913	DN	final functional test	1	13MAY03	13MAY03	14	E	0				△ final functional test			
5C0914		burn-in on EM & Qual only	0		13MAY03	14		0				◆ burn-in on EM & Qual only			
5C0915		ready	0		13MAY03	14		0				◆ ready			
4.1.5.7.6.5 4 BOARD PRODUCTION RUN															
5C0917	DN	man assy (4 boards)	5	30APR03	06MAY03	58	E	0				△ man assy (4 boards)			
5C0918	DN	functional test	1	07MAY03	07MAY03	64	E	0				△ functional test			
5C0919		workmanship test (TBR) EM & Qual units only	0		07MAY03	64		0				◆ workmanship test (TBR) EM & Qual units only			
5C0920	DN	conformal coat	8	08MAY03	19MAY03	64	E	0				△ conformal coat			

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
5C0921	DN	final functional test	1	20MAY03	20MAY03	64	E	0							
5C0922		burn-in on EM & Qual only	0		20MAY03	64		0							
5C0923		ready	0		20MAY03	64		0							
4.1.5.7.6.6 4 BOARD PRODUCTION RUN															
5C0925	DN	man assy (4 boards)	5	07MAY03	13MAY03	58	E	0							
5C0926	DN	functional test	1	14MAY03	14MAY03	58	E	0							
5C0927		workmanship test (TBR) EM & Qual units only	0		14MAY03	58		0							
5C0928	DN	conformal coat	8	15MAY03	27MAY03	58	E	0							
5C0929	DN	final functional test	1	28MAY03	28MAY03	58	E	0							
5C0930		burn-in on EM & Qual only	0		28MAY03	58		0							
5C0931		ready	0		28MAY03	58		0							
4.1.5.7.6.7 4 BOARD PRODUCTION RUN															
5C0933	DN	man assy (4 boards)	5	14MAY03	20MAY03	62	E	0							
5C0934	DN	functional test	1	21MAY03	21MAY03	98	E	0							
5C0935		workmanship test (TBR) EM & Qual units only	0		21MAY03	98		0							
5C0936	DN	conformal coat	8	22MAY03	03JUN03	98	E	0							
5C0937	DN	final functional test	1	04JUN03	04JUN03	98	E	0							
5C0938		burn-in on EM & Qual only	0		04JUN03	98		0							
5C0939		ready	0		04JUN03	98		0							
4.1.5.7.6.8 4 BOARD PRODUCTION RUN															
5C0941	DN	man assy (4 boards)	5	21MAY03	28MAY03	62	E	0							
5C0942	DN	functional test	1	29MAY03	29MAY03	92	E	0							
5C0943		workmanship test (TBR) EM & Qual units only	0		29MAY03	92		0							
5C0944	DN	conformal coat	8	30MAY03	10JUN03	92	E	0							
5C0945	DN	final functional test	1	11JUN03	11JUN03	92	E	0							
5C0946		burn-in on EM & Qual only	0		11JUN03	92		0							
5C0947		ready	0		11JUN03	92		0							
4.1.5.7.6.9 4 BOARD PRODUCTION RUN															
5C0949	DN	man assy (4 boards)	5	29MAY03	04JUN03	62	E	0							
5C0950	DN	functional test	1	05JUN03	05JUN03	96	E	0							
5C0951		workmanship test (TBR) EM & Qual units only	0		05JUN03	96		0							
5C0952	DN	conformal coat	8	06JUN03	17JUN03	96	E	0							
5C0953	DN	final functional test	1	18JUN03	18JUN03	96	E	0							
5C0954		burn-in on EM & Qual only	0		18JUN03	96		0							
5C0955		ready	0		18JUN03	96		0							
4.1.5.7.6.A 4 BOARD PRODUCTIN RUN															
5C0957	DN	man assy (4 boards)	5	05JUN03	11JUN03	62	E	0							
5C0958	DN	functional test	1	12JUN03	12JUN03	91	E	0							
5C0959		workmanship test (TBR) EM & Qual units only	0		12JUN03	91		0							
5C0960	DN	conformal coat	8	13JUN03	24JUN03	91	E	0							
5C0961	DN	final functional test	1	25JUN03	25JUN03	91	E	0							
5C0962		burn-in on EM & Qual only	0		25JUN03	91		0							
5C0963		ready	0		25JUN03	91		0							
4.1.5.7.6.B 4 BOARD PRODUCTION RUN															
5C0965	DN	man assy (4 boards)	5	12JUN03	18JUN03	62	E	0							
5C0966	DN	functional test	1	19JUN03	19JUN03	97	E	0							
5C0967		workmanship test (TBR) EM & Qual units only	0		19JUN03	97		0							
5C0968	DN	conformal coat	8	20JUN03	01JUL03	97	E	0							
5C0969	DN	final functional test	1	02JUL03	02JUL03	97	E	0							
5C0970		burn-in on EM & Qual only	0		02JUL03	97		0							
5C0971		ready	0		02JUL03	97		0							
4.1.5.7.6.C 4 BOARD PRODUCTION RUN															
5C0973	DN	man assy (4 boards)	5	19JUN03	25JUN03	62	E	0							
5C0974	DN	functional test	1	26JUN03	26JUN03	93	E	0							
5C0975		workmanship test (TBR) EM & Qual units only	0		26JUN03	93		0							
5C0976	DN	conformal coat	8	27JUN03	09JUL03	93	E	0							
5C0977	DN	final functional test	1	10JUL03	10JUL03	93	E	0							
5C0978		burn-in on EM & Qual only	0		10JUL03	93		0							
5C0979		ready	0		10JUL03	93		0							
4.1.5.7.6.D 4 BOARD PRODUCTION RUN															
5C0981	DN	man assy (4 boards)	5	26JUN03	02JUL03	62	E	0							
5C0982	DN	functional test	1	03JUL03	03JUL03	97	E	0							
5C0983		workmanship test (TBR) EM & Qual units only	0		03JUL03	97		0							
5C0984	DN	conformal coat	8	07JUL03	16JUL03	97	E	0							
5C0985	DN	final functional test	1	17JUL03	17JUL03	97	E	0							
5C0986		burn-in on EM & Qual only	0		17JUL03	97		0							
5C0987		ready	0		17JUL03	97		0							
4.1.5.7.6.E 4 BOARD PRODUCTION RUN															
5C0989	DN	man assy (4 boards)	5	03JUL03	10JUL03	62	E	0							
5C0990	DN	functional test	1	11JUL03	11JUL03	92	E	0							
5C0991		workmanship test (TBR) EM & Qual units only	0		11JUL03	92		0							
5C0992	DN	conformal coat	8	14JUL03	23JUL03	92	E	0							
5C0993	DN	final functional test	1	24JUL03	24JUL03	92	E	0							
5C0994		burn-in on EM & Qual only	0		24JUL03	92		0							
5C0995		ready	0		24JUL03	92		0							
4.1.5.7.6.F 4 BOARD PRODUCTION RUN															
5C0997	DN	man assy (4 boards)	5	11JUL03	17JUL03	62	E	0							
5C0998	DN	functional test	1	18JUL03	18JUL03	97	E	0							
5C0999		workmanship test (TBR) EM & Qual units only	0		18JUL03	97		0							
5C1000	DN	conformal coat	8	21JUL03	30JUL03	97	E	0							
5C1001	DN	final functional test	1	31JUL03	31JUL03	97	E	0							
5C1002		burn-in on EM & Qual only	0		31JUL03	97		0							
5C1003		ready	0		31JUL03	97		0							
4.1.5.7.6.G 4 BOARD PRODUCTION RUN															
5C1005	DN	man assy (4 boards)	5	18JUL03	24JUL03	62	E	0							
5C1006	DN	functional test	1	25JUL03	25JUL03	92	E	0							
5C1007		workmanship test (TBR) EM & Qual units only	0		25JUL03	92		0							
5C1008	DN	conformal coat	8	28JUL03	06AUG03	92	E	0							
5C1009	DN	final functional test	1	07AUG03	07AUG03	92	E	0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01 FY02 FY03 FY04 FY05 FY06 FY07							
5C1010		burn-in on EM & Qual only	0		07AUG03	92		0								
5C1011		ready	0		07AUG03	92		0								
4.1.5.7.6.H 4 BOARD PRODUCTION RUN																
5C1013	DN	man assy (4 boards)	5	25JUL03	31JUL03	62	E	0								
5C1014	DN	functional test	1	01AUG03	01AUG03	97	E	0								
5C1015		workmanship test (TBR) EM & Qual units only	0		01AUG03	97		0								
5C1016	DN	conformal coat	8	04AUG03	13AUG03	97	E	0								
5C1017	DN	final functional test	1	14AUG03	14AUG03	97	E	0								
5C1018		burn-in on EM & Qual only	0		14AUG03	97		0								
5C1019		ready	0		14AUG03	97		0								
4.1.5.7.6.I 4 BOARD PRODUCTION RUN																
5C1021	DN	man assy (4 boards)	5	01AUG03	07AUG03	62	E	0								
5C1022	DN	functional test	1	08AUG03	08AUG03	92	E	0								
5C1023		workmanship test (TBR) EM & Qual units only	0		08AUG03	92		0								
5C1024	DN	conformal coat	8	11AUG03	20AUG03	92	E	0								
5C1025	DN	final functional test	1	21AUG03	21AUG03	92	E	0								
5C1026		burn-in on EM & Qual only	0		21AUG03	92		0								
5C1027		ready	0		21AUG03	92		0								
4.1.5.7.6.J 4 BOARD PRODUCTION RUN																
5C1029	DN	man assy (4 boards)	5	08AUG03	14AUG03	62	E	0								
5C1030	DN	functional test	1	15AUG03	15AUG03	96	E	0								
5C1031		workmanship test (TBR) EM & Qual units only	0		15AUG03	96		0								
5C1032	DN	conformal coat	8	18AUG03	27AUG03	96	E	0								
5C1033	DN	final functional test	1	28AUG03	28AUG03	96	E	0								
5C1034		burn-in on EM & Qual only	0		28AUG03	96		0								
5C1035		ready	0		28AUG03	96		0								
4.1.5.7.6.K 4 BOARD PRODUCTION RUN																
5C1037	DN	man assy (4 boards)	5	15AUG03	21AUG03	62	E	0								
5C1038	DN	functional test	1	22AUG03	22AUG03	91	E	0								
5C1039		workmanship test (TBR) EM & Qual units only	0		22AUG03	91		0								
5C1040	DN	conformal coat	8	25AUG03	04SEP03	91	E	0								
5C1041	DN	final functional test	1	05SEP03	05SEP03	91	E	0								
5C1042		burn-in on EM & Qual only	0		05SEP03	91		0								
5C1043		ready	0		05SEP03	91		0								
4.1.5.7.6.L 4 BOARD PRODUCTION RUN																
5C1045	DN	man assy (4 boards)	5	22AUG03	28AUG03	62	E	0								
5C1046	DN	functional test	1	29AUG03	29AUG03	86	E	0								
5C1047		workmanship test (TBR) EM & Qual units only	0		29AUG03	86		0								
5C1048	DN	conformal coat	8	02SEP03	11SEP03	86	E	0								
5C1049	DN	final functional test	1	12SEP03	12SEP03	86	E	0								
5C1050		burn-in on EM & Qual only	0		12SEP03	86		0								
5C1051		ready	0		12SEP03	86		0								
4.1.5.7.6.M 4 BOARD PRODUCTION RUN																
5C1053	DN	man assy (4 boards)	5	29AUG03	05SEP03	62	E	0								
5C1054	DN	functional test	1	08SEP03	08SEP03	81	E	0								
5C1055		workmanship test (TBR) EM & Qual units only	0		08SEP03	81		0								
5C1056	DN	conformal coat	8	09SEP03	18SEP03	81	E	0								
5C1057	DN	final functional test	1	19SEP03	19SEP03	81	E	0								
5C1058		burn-in on EM & Qual only	0		19SEP03	81		0								
5C1059		ready	0		19SEP03	81		0								
4.1.5.7.6.N 4 BOARD PRODUCTION RUN																
5C1061	DN	man assy (4 boards)	4	08SEP03	11SEP03	62	E	0								
5C1062	DN	functional test	1	12SEP03	12SEP03	77	E	0								
5C1063		workmanship test (TBR) EM & Qual units only	0		12SEP03	77		0								
5C1064	DN	conformal coat	8	15SEP03	24SEP03	77	E	0								
5C1065	DN	final functional test	1	25SEP03	25SEP03	77	E	0								
5C1066		burn-in on EM & Qual only	0		25SEP03	77		0								
5C1067		ready	0		25SEP03	77		0								
4.1.5.7.6.O 4 BOARD PRODUCTION RUN																
5C1069	DN	man assy (4 boards)	5	12SEP03	18SEP03	62	E	0								
5C1070	DN	functional test	1	19SEP03	19SEP03	72	E	0								
5C1071		workmanship test (TBR) EM & Qual units only	0		19SEP03	72		0								
5C1072	DN	conformal coat	8	22SEP03	01OCT03	72	E	0								
5C1073	DN	final functional test	1	02OCT03	02OCT03	72	E	0								
5C1074		burn-in on EM & Qual only	0		02OCT03	72		0								
5C1075		ready	0		02OCT03	72		0								
4.1.5.7.6.P 4 BOARD PRODUCTION RUN																
5C1077	DN	man assy (4 boards)	5	19SEP03	25SEP03	62	E	0								
5C1078	DN	functional test	1	26SEP03	26SEP03	67	E	0								
5C1079		workmanship test (TBR) EM & Qual units only	0		26SEP03	67		0								
5C1080	DN	conformal coat	8	29SEP03	08OCT03	67	E	0								
5C1081	DN	final functional test	1	09OCT03	09OCT03	67	E	0								
5C1082		burn-in on EM & Qual only	0		09OCT03	67		0								
5C1083		ready	0		09OCT03	67		0								
4.1.5.7.6.Q 4 BOARD PRODUCTION RUN																
5C1085	DN	man assy (4 boards)	5	26SEP03	02OCT03	62	E	0								
5C1086	DN	functional test	1	03OCT03	03OCT03	62	E	0								
5C1087		workmanship test (TBR) EM & Qual units only	0		03OCT03	62		0								
5C1088	DN	conformal coat	8	06OCT03	15OCT03	62	E	0								
5C1089	DN	final functional test	1	16OCT03	16OCT03	62	E	0								
5C1090		burn-in on EM & Qual only	0		16OCT03	62		0								
5C1091		4 Boards Ready	0		16OCT03	62		0								
4.1.5.7.7 GSE FOR AFEE TEST																
5C1093		EGSE Requirements review	0		22MAR01A			100								
4.1.5.7.7.1 VM GSE (PARTIAL TEM SIMULATOR)																
5C1095	DN	VM GSE Design	10	29MAY01A	08JUN01A		E	100								
5C1096	DN	VM GSE Layout	10	11JUN01A	22JUN01A		E	100								
5C1100	DN	Design, fab FPGA firmware	40	11JUN01A	03AUG01A		E	100								
5C1101	DN	PC Labview Software	40	11JUN01A	03AUG01A		E	100								

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01 FY02 FY03 FY04 FY05 FY06 FY07								
5C1097	DN	VM GSE Fabrication	10	25JUN01A	06JUL01A		E	100									
5C1098	DN	VM GSE Assembly	10	09JUL01A	20JUL01A		E	100									
5C1099	DN	VM GSE Test	5	06AUG01A	10AUG01A		E	100									
4.1.5.7.2 TEM SIMULATOR GSE																	
5C1103		Design, fab FPGA firmware	19	13AUG01A	07SEP01A			100									
5C1104		PC Labview Software	19	13AUG01A	07SEP01A			100									
5C1105		VM GSE Test	10	10SEP01A	21SEP01A			100									
5C1108B	DN	VME GSE Software Development	47	01OCT01A	06DEC01	43	E	50									
5C1108A		ND: Receive VME TEM Sim & Doc from Elec to CAL	0		05NOV01*	273		0									
5C1108C		EM AFEE GSE Available	0		06DEC01	43		0									
4.1.5.8 CALORIMETER TOWER CONTROLLER																	
4.1.5.8.1 DESIGN																	
5C1108	DN	Software Development	66	06NOV01	20FEB02	273	E	0									
4.1.5.8.3 TEST																	
5C1110	DN	Test	66	10DEC01	22MAR02	273	E	0									
4.1.5.9 CALORIMETER MODULE ASSEMBLY, TEST & CALIBRATION																	
4.1.5.9.1 ENGINEERING MODEL																	
5C1118A		ND: Receive PreEM TEM from Elec to CAL	0		14JUN02	214		0									
5C1114	DN	Receipt inspection	2	18FEB03	19FEB03	22	E	0									
5C1115	DN	Mass properties measurement #1	2	20FEB03	21FEB03	22	E	0									
5C1116	DN	PEM CES integration	5	24FEB03	28FEB03	22	E	0									
5C1117	DN	Muon calibration #1	5	03MAR03	07MAR03	22	E	0									
5C1118	DN	PEM-to-AFEE integration	15	10MAR03	28MAR03	22	E	0									
5C1119	DN	TEM Integration	5	31MAR03	04APR03	22	E	0									
5C1120	DN	Comprehensive State Functional test	5	07APR03	11APR03	22	E	0									
5C1121	DN	Electronic calib	5	14APR03	18APR03	22	E	0									
5C1122	DN	Muon calibration #2	5	21APR03	25APR03	22	E	0									
5C1123	DN	Mass properties #2	2	28APR03	29APR03	22	E	0									
5C1124	DN	Thermal vac/ functional test	14	30APR03	19MAY03	22	E	0									
5C1125	DN	Vibration test	10	20MAY03	03JUN03	22	E	0									
5C1126	DN	EMC/EMI test	3	04JUN03	06JUN03	22	E	0									
5C1127	DN	Muon calibration #3	3	09JUN03	11JUN03	22	E	0									
5C1128	DN	Comprehensive Functional Test #2	5	12JUN03	18JUN03	22	E	0									
5C1129	DN	Ship to beam test	5	19JUN03	25JUN03	22	E	0									
5C1130	DN	Hadronic bean test	20	26JUN03	24JUL03	22	E	0									
5C1131	DN	Ship to SLAC	4	25JUL03	30JUL03	22	E	0									
5C1132		AV: EM from Calorimeter to I&T	0		30JUL03	22		0									
4.1.5.9.2 FLIGHT MODULES																	
5C1176		CAL Production Readiness Review	0		31OCT01	317		0									
5C1156		Receive Cal Mod B	0		21FEB03	25		0									
5C1135		Receive Cal Mod A	0		28FEB03	4		0									
5C1198		Receive Cal Mod 2	0		10MAR03	69		0									
5C1178		Receive Cal Mod 1	0		11MAR03	53		0									
5C1218		Receive Cal Mod 3	0		03APR03	66		0									
5C1238		Receive Cal Mod 4	0		18APR03	65		0									
5C1258		Receive Cal Mod 5	0		08MAY03	61		0									
5C1278		Receive Cal Mod 6	0		05JUN03	52		0									
5C1298		Receive Cal Mod 7	0		19JUN03	51		0									
5C1318		Receive Cal Mod 8	0		09JUL03	48		0									
5C1338		Receive Cal Mod 9	0		01AUG03	41		0									
5C1154		Module A RFI	0		15AUG03	647		0									
5C1175		Module B RFI	0		15AUG03	647		0									
5C1358		Receive Cal Mod 10	0		18AUG03	41		0									
5C1378		Receive Cal Mod 11	0		27AUG03	44		0									
5C1398		Receive Cal Mod 12	0		24SEP03	35		0									
5C1418		Receive Cal Mod 13	0		06OCT03	37		0									
5C1438		Receive Cal Mod 14	0		16OCT03	39		0									
5C1216		Module 2 RFI	0		03NOV03	592		0									
5C1196		Module 1 RFI	0	04NOV03	03NOV03	592		0									
5C1458		Receive Cal Mod 15	0		14NOV03	28		0									
5C1478		Receive Cal Mod 16	0		16DEC03	18		0									
5C1236		Module 3 RFI	0		02JAN04	557		0									
5C1256		Module 4 RFI	0		02JAN04	557		0									
5C1276		Module 5 RFI	0		15JAN04	548		0									
5C1296		Module 6 RFI	0		15JAN04	548		0									
5C1316		Module 7 RFI	0		29JAN04	539		0									
5C1336		Module 8 RFI	0		29JAN04	539		0									
5C1356		Module 9 RFI	0		12FEB04	529		0									
5C1376		Module 10 RFI	0		12FEB04	529		0									
5C1396		Module 11 RFI	0		26FEB04	520		0									
5C1416		Module 12 RFI	0		26FEB04	520		0									
5C1436		Module 13 RFI	0		10MAR04	511		0									
5C1456		Module 14 RFI	0		10MAR04	511		0									
5C1476		Module 15 RFI	0		24MAR04	501		0									
5C1496		Module 16 RFI	0		24MAR04	110		0									
4.1.5.9.2.1 MODULE A&T - FM A																	
5C1146		Qual Readiness Review-CAL	0		31OCT01	323		0									
5C1512		Qual Review-CAL	0		31OCT01	433		0									
5C1136	DN	Receipt inspection	1	03MAR03	03MAR03	4	E	0									
5C1137	DN	Mass properties measurement	1	04MAR03	04MAR03	48	E	0									
5C1138	DN	PEM CES integration	2	05MAR03	06MAR03	48	E	0									
5C1139	DN	Muon calibration #1	4	07MAR03	12MAR03	48	E	0									
5C1140	DN	PEM-to-AFEE integration	8	07MAY03	16MAY03	9	E	0									
5C1140B	DN	EM2 TEM Functional Check	10	19MAY03	02JUN03	9	E	0									
5C1141	DN	TEM & PS Integration	5	03JUN03	09JUN03	9	E	0									
5C1142	DN	Comprehensive State Functional test	4	10JUN03	13JUN03	9	E	0									
5C1143	DN	Electronic calib	2	16JUN03	17JUN03	9	E	0									
5C1144	DN	Muon calibration #2	3	18JUN03	20JUN03	9	E	0									
5C1145	DN	Mass properties #2	1	23JUN03	23JUN03	15	E	0									

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
5C1147	DN	Vibration test	5	01JUL03	08JUL03	10	E	0							
5C1148	DN	EMC/EMI test	2	09JUL03	10JUL03	10	E	0							
5C1149	DN	Muon calibration #3	1	11JUL03	11JUL03	10	E	0							
5C1150		Comprehensive Functional Test #2	3	14JUL03	16JUL03	10		0							
5C1151	DN	Preship review and signoff	2	17JUL03	18JUL03	10	E	0							
5C1152		margin	3	21JUL03	23JUL03	10		0							
5C1153	DN	AV: Calorimeter Modules A RFI (for Calibration)	7	24JUL03	01AUG03	10	E	0							
5C1522		Sub System CAL RFI's--1st Article	0		01AUG03	10		0							
4.1.5.9.2.2 MODULE A&T - FM B															
5C1157	DN	Receipt inspection	1	24MAR03	24MAR03	4	E	0							
5C1158	DN	Mass properties measurement	1	25MAR03	25MAR03	42	E	0							
5C1159	DN	PEM CES integration	3	26MAR03	28MAR03	42	E	0							
5C1160	DN	Muon calibration #1	4	31MAR03	03APR03	42	E	0							
5C1161	DN	PEM-to-AFEE integration	8	14MAY03	23MAY03	14	E	0							
5C1161B		TEM & PS Functional Check	2	27MAY03	28MAY03	14		0							
5C1162	DN	TEM & PS integration	2	29MAY03	30MAY03	14	E	0							
5C1163	DN	Comprehensive State Functional test	4	02JUN03	05JUN03	14	E	0							
5C1164	DN	Electronic calib	2	06JUN03	09JUN03	14	E	0							
5C1165	DN	Muon calibration #2	3	10JUN03	12JUN03	14	E	0							
5C1166	DN	Mass properties #2	1	13JUN03	13JUN03	14	E	0							
5C1167	DN	A & B Thermal vac functional test	10	21JUN03	30JUN03	15	E	0							
5C1168	DN	Vibration test	5	01JUL03	08JUL03	10	E	0							
5C1169		EMC/EMI test	2	09JUL03	10JUL03	10		0							
5C1170	DN	Muon calibration #3	2	11JUL03	14JUL03	10	E	0							
5C1171	DN	Comprehensive Functional Test #2	3	15JUL03	17JUL03	10	E	0							
5C1172	DN	Preship review and signoff	2	18JUL03	21JUL03	10	E	0							
5C1173		margin	3	22JUL03	24JUL03	10		0							
5C1174	DN	AV: Calorimeter Modules B RFI (for Calibration)	6	25JUL03	01AUG03	10	E	0							
4.1.5.9.2.3 MODULE A&T FM 1															
5C1179	DN	Receipt inspection	1	19MAY03	19MAY03	4	E	0							
5C1180	DN	Mass properties measurement	1	20MAY03	20MAY03	57	E	0							
5C1181	DN	PEM CES integration	3	21MAY03	23MAY03	57	E	0							
5C1182	DN	Muon calibration #1	4	27MAY03	30MAY03	57	E	0							
5C1183	DN	PEM-to-AFEE integration	8	02JUN03	11JUN03	57	E	0							
5C1183B		TEM & PS Functional Check	2	12JUN03	13JUN03	57		0							
5C1184	DN	TEM & PS integration	2	16JUN03	17JUN03	57	E	0							
5C1185	DN	Comprehensive State Functional test	3	18JUN03	20JUN03	57	E	0							
5C1186	DN	Electronic calib	2	23JUN03	24JUN03	57	E	0							
5C1187	DN	Muon calibration #2	3	25JUN03	27JUN03	57	E	0							
5C1188	DN	Mass properties #2	1	30JUN03	30JUN03	57	E	0							
5C1190	DN	Vibration test	5	01AUG03	07AUG03	43	E	0							
5C1191	DN	Muon calibration #3	2	08AUG03	11AUG03	43	E	0							
5C1192	DN	Comprehensive Functional Test #2	2	12AUG03	13AUG03	43	E	0							
5C1193	DN	Preship review and signoff	2	14AUG03	15AUG03	43	E	0							
5C1194		margin	5	18AUG03	22AUG03	43		0							
5C1195	DN	AV: Calorimeter Modules 1 RFI (for Calibration)	7	25AUG03	03SEP03	43	E	0							
4.1.5.9.2.4 MODULE A&T - FM 2															
5C1199	DN	Receipt inspection	1	10JUN03	10JUN03	4	E	0							
5C1200	DN	Mass properties measurement	1	11JUN03	11JUN03	42	E	0							
5C1201	DN	PEM CES integration	2	12JUN03	13JUN03	42	E	0							
5C1202	DN	Muon calibration #1	4	16JUN03	19JUN03	42	E	0							
5C1203	DN	PEM-to-AFEE integration	8	20JUN03	01JUL03	42	E	0							
5C1203B		TEM & PS Functional Check	2	02JUL03	03JUL03	42		0							
5C1204	DN	TEM & PS integration	2	07JUL03	08JUL03	42	E	0							
5C1205	DN	Comprehensive State Functional test	4	09JUL03	14JUL03	42	E	0							
5C1206	DN	Electronic calib	2	15JUL03	16JUL03	42	E	0							
5C1207	DN	Muon calibration #2	3	17JUL03	21JUL03	42	E	0							
5C1208	DN	Mass properties #2	1	22JUL03	22JUL03	42	E	0							
5C1209	DN	1 & 2 Thermal vac functional test	9	23JUL03	31JUL03	61	E	0							
5C1210	DN	Vibration test	5	01AUG03	07AUG03	42	E	0							
5C1211	DN	Muon calibration #3	2	08AUG03	11AUG03	42	E	0							
5C1212	DN	Comprehensive Functional Test #2	3	12AUG03	14AUG03	42	E	0							
5C1213	DN	Preship review and signoff	2	15AUG03	18AUG03	42	E	0							
5C1214		margin	5	19AUG03	25AUG03	42		0							
5C1215	DN	AV: Calorimeter Modules 2 RFI (for Calibration)	7	26AUG03	04SEP03	42	E	0							
4.1.5.9.2.5 MODULE A&T FM 3															
5C1219	DN	Receipt inspection	1	01JUL03	01JUL03	4	E	0							
5C1220	DN	Mass properties measurement	1	02JUL03	02JUL03	72	E	0							
5C1221	DN	PEM CES integration	3	03JUL03	08JUL03	72	E	0							
5C1222	DN	Muon calibration #1	3	09JUL03	11JUL03	72	E	0							
5C1223	DN	PEM-to-AFEE integration	6	14JUL03	21JUL03	72	E	0							
5C1223B		TEM & PS Functional Check	2	22JUL03	23JUL03	72		0							
5C1224	DN	TEM & PS integration	1	24JUL03	24JUL03	72	E	0							
5C1225	DN	Comprehensive State Functional test	2	25JUL03	28JUL03	72	E	0							
5C1226	DN	Electronic calib	2	29JUL03	30JUL03	72	E	0							
5C1227	DN	Muon calibration #2	2	31JUL03	01AUG03	72	E	0							
5C1228	DN	Mass properties #2	1	04AUG03	04AUG03	72	E	0							
5C1230	DN	Vibration test	3	29AUG03	03SEP03	60	E	0							
5C1231	DN	Muon calibration #3	2	04SEP03	05SEP03	60	E	0							
5C1232	DN	Comprehensive Functional Test #2	2	08SEP03	09SEP03	60	E	0							
5C1233	DN	Preship review and signoff	1	10SEP03	10SEP03	60	E	0							
5C1234		margin	6	11SEP03	18SEP03	60		0							
5C1235	DN	AV: Flight Calorimeter Tower 3 RFI	7	19SEP03	29SEP03	60	E	0							
4.1.5.9.2.6 MODULE A&T - FM 4															
5C1239	DN	Receipt inspection	1	16JUL03	16JUL03	4	E	0							
5C1240	DN	Mass properties measurement	1	17JUL03	17JUL03	62	E	0							
5C1241	DN	PEM CES integration	3	18JUL03	22JUL03	62	E	0							
5C1242	DN	Muon calibration #1	2	23JUL03	24JUL03	62	E	0							
5C1243	DN	PEM-to-AFEE integration	6	25JUL03	01AUG03	62	E	0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
5C1243B		TEM & PS Functional Check	2	04AUG03	05AUG03	62		0							
5C1244	DN	TEM & PS integration	1	06AUG03	06AUG03	62	E	0							
5C1245	DN	Comprehensive State Functional test	3	07AUG03	11AUG03	62	E	0							
5C1246	DN	Electronic calib	2	12AUG03	13AUG03	62	E	0							
5C1247	DN	Muon calibration #2	2	14AUG03	15AUG03	62	E	0							
5C1248	DN	Mass properties #2	1	18AUG03	18AUG03	62	E	0							
5C1249	DN	3 & 4 Thermal vac functional test	10	19AUG03	28AUG03	87	E	0							
5C1250	DN	Vibration test	3	29AUG03	03SEP03	60	E	0							
5C1251	DN	Muon calibration #3	2	04SEP03	05SEP03	60	E	0							
5C1252	DN	Comprehensive Functional Test #2	2	08SEP03	09SEP03	60	E	0							
5C1253	DN	Preship review and signoff	1	10SEP03	10SEP03	60	E	0							
5C1254		margin	6	11SEP03	18SEP03	60		0							
5C1255	DN	AV: Flight Calorimeter Tower 4 RFI	7	19SEP03	29SEP03	60	E	0							
4.1.5.9.2.7 MODULE A&T - FM 5															
5C1259	DN	Receipt inspection	1	30JUL03	30JUL03	4	E	0							
5C1260	DN	Mass properties measurement	1	31JUL03	31JUL03	61	E	0							
5C1261	DN	PEM CES integration	2	01AUG03	04AUG03	61	E	0							
5C1262	DN	Muon calibration #1	3	05AUG03	07AUG03	61	E	0							
5C1263	DN	PEM-to-AFEE integration	6	08AUG03	15AUG03	61	E	0							
5C1263B		TEM & PS Functional Check	2	18AUG03	19AUG03	61		0							
5C1264	DN	TEM & PS integration	1	20AUG03	20AUG03	61	E	0							
5C1265	DN	Comprehensive State Functional test	3	21AUG03	25AUG03	61	E	0							
5C1266	DN	Electronic calib	2	26AUG03	27AUG03	61	E	0							
5C1267	DN	Muon calibration #2	2	28AUG03	29AUG03	61	E	0							
5C1268	DN	Mass properties #2	1	02SEP03	02SEP03	61	E	0							
5C1270	DN	Vibration test	3	29SEP03	01OCT03	50	E	0							
5C1271	DN	Muon calibration #3	2	02OCT03	03OCT03	50	E	0							
5C1272	DN	Comprehensive Functional Test #2	2	06OCT03	07OCT03	50	E	0							
5C1273	DN	Preship review and signoff	1	08OCT03	08OCT03	50	E	0							
5C1274		margin	5	09OCT03	15OCT03	50		0							
5C1275	DN	AV: Flight Calorimeter Tower 5 RFI	7	16OCT03	24OCT03	50	E	0							
4.1.5.9.2.8 MODULE A&T - FM 6															
5C1279	DN	Receipt inspection	1	13AUG03	13AUG03	4	E	0							
5C1280	DN	Mass properties measurement	1	14AUG03	14AUG03	51	E	0							
5C1281	DN	PEM CES integration	2	15AUG03	18AUG03	51	E	0							
5C1282	DN	Muon calibration #1	3	19AUG03	21AUG03	51	E	0							
5C1283	DN	PEM-to-AFEE integration	6	22AUG03	29AUG03	51	E	0							
5C1283B		TEM & PS Functional Check	2	02SEP03	03SEP03	51		0							
5C1284	DN	TEM & PS integration	1	04SEP03	04SEP03	51	E	0							
5C1285	DN	Comprehensive State Functional test	3	05SEP03	09SEP03	51	E	0							
5C1286	DN	Electronic calib	2	10SEP03	11SEP03	51	E	0							
5C1287	DN	Muon calibration #2	2	12SEP03	15SEP03	51	E	0							
5C1288	DN	Mass properties #2	1	16SEP03	16SEP03	51	E	0							
5C1289	DN	5 & 6 Thermal vac functional test	10	17SEP03	26SEP03	74	E	0							
5C1290	DN	Vibration test	2	29SEP03	30SEP03	50	E	0							
5C1291	DN	Muon calibration #3	2	01OCT03	02OCT03	50	E	0							
5C1292	DN	Comprehensive Functional Test #2	2	03OCT03	06OCT03	50	E	0							
5C1293	DN	Preship review and signoff	1	07OCT03	07OCT03	50	E	0							
5C1294		margin	6	08OCT03	15OCT03	50		0							
5C1295	DN	AV: Flight Calorimeter Tower 6 RFI	7	16OCT03	24OCT03	50	E	0							
4.1.5.9.2.9 MODULE A&T - FM 7															
5C1300		Mass properties measurement	0		26AUG03	55		0							
5C1299		Receipt inspection	0	27AUG03	26AUG03	4		0							
5C1301	DN	PEM CES integration	2	27AUG03	28AUG03	55	E	0							
5C1302	DN	Muon calibration #1	2	29AUG03	02SEP03	55	E	0							
5C1303	DN	PEM-to-AFEE integration	6	03SEP03	10SEP03	55	E	0							
5C1303B		TEM & PS Functional Check	2	11SEP03	12SEP03	55		0							
5C1304	DN	TEM & PS integration	1	15SEP03	15SEP03	55	E	0							
5C1305	DN	Comprehensive State Functional test	2	16SEP03	17SEP03	55	E	0							
5C1306	DN	Electronic calib	1	18SEP03	18SEP03	55	E	0							
5C1307	DN	Muon calibration #2	2	19SEP03	22SEP03	55	E	0							
5C1308	DN	Mass properties #2	1	23SEP03	23SEP03	55	E	0							
5C1310	DN	Vibration test	3	17OCT03	21OCT03	44	E	0							
5C1311	DN	Muon calibration #3	2	22OCT03	23OCT03	44	E	0							
5C1312	DN	Comprehensive Functional Test #2	2	24OCT03	27OCT03	44	E	0							
5C1313	DN	Preship review and signoff	1	28OCT03	28OCT03	44	E	0							
5C1314		margin	6	29OCT03	05NOV03	44		0							
5C1315	DN	AV: Flight Calorimeter Tower 7 RFI	7	06NOV03	14NOV03	44	E	0							
4.1.5.9.2.A MODULE A&T - FM 8															
5C1320		Mass Properties Measurement	0		10SEP03	46		0							
5C1319		Receipt inspection	0	11SEP03	10SEP03	4		0							
5C1321	DN	PEM CES integration	2	11SEP03	12SEP03	46	E	0							
5C1322	DN	Muon calibration #1	2	15SEP03	16SEP03	46	E	0							
5C1323	DN	PEM-to-AFEE integration	5	17SEP03	23SEP03	46	E	0							
5C1323B		TEM & PS Functional Check	2	24SEP03	25SEP03	46		0							
5C1324	DN	TEM & PS integration	1	26SEP03	26SEP03	46	E	0							
5C1325	DN	Comprehensive State Functional test	2	29SEP03	30SEP03	46	E	0							
5C1326	DN	Electronic calib	1	01OCT03	01OCT03	46	E	0							
5C1327	DN	Muon calibration #2	2	02OCT03	03OCT03	46	E	0							
5C1328	DN	Mass properties #2	1	06OCT03	06OCT03	46	E	0							
5C1329	DN	7 & 8 Thermal vac functional test	10	07OCT03	16OCT03	66	E	0							
5C1330	DN	Vibration test	3	17OCT03	21OCT03	44	E	0							
5C1331	DN	Muon calibration #3	2	22OCT03	23OCT03	44	E	0							
5C1332	DN	Comprehensive Functional Test #2	2	24OCT03	27OCT03	44	E	0							
5C1333	DN	Preship review and signoff	1	28OCT03	28OCT03	44	E	0							
5C1334		margin	6	29OCT03	05NOV03	44		0							
5C1335	DN	AV: Flight Calorimeter Tower 8 RFI	7	06NOV03	14NOV03	44	E	0							
4.1.5.9.2.B MODULE A&T - FM 9															
5C1340		Mass properties measurement	0		24SEP03	45		0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
5C1339		Receipt inspection	0	25SEP03	24SEP03	4		0							
5C1341	DN	PEM CES integration	2	25SEP03	26SEP03	45	E	0							
5C1342	DN	Muon calibration #1	2	29SEP03	30SEP03	45	E	0							
5C1343	DN	PEM-to-AFEE integration	5	01OCT03	07OCT03	45	E	0							
5C1343B		TEM & PS Functional Check	2	08OCT03	09OCT03	45		0							
5C1344	DN	TEM & PS integration	1	10OCT03	10OCT03	45	E	0							
5C1345	DN	Comprehensive State Functional test	2	13OCT03	14OCT03	45	E	0							
5C1346	DN	Electronic calib	1	15OCT03	15OCT03	45	E	0							
5C1347	DN	Muon calibration #2	2	16OCT03	17OCT03	45	E	0							
5C1348	DN	Mass properties #2	1	20OCT03	20OCT03	45	E	0							
5C1350	DN	Vibration test	3	14NOV03	18NOV03	34	E	0							
5C1351	DN	Muon calibration #3	2	19NOV03	20NOV03	34	E	0							
5C1352	DN	Comprehensive Functional Test #2	2	21NOV03	24NOV03	34	E	0							
5C1353	DN	Preship review and signoff	1	25NOV03	25NOV03	34	E	0							
5C1354		margin	6	26NOV03	05DEC03	34		0							
5C1355	DN	AV: Flight Calorimeter Tower 9 RFI	7	08DEC03	16DEC03	34	E	0							
4.1.5.9.2.C MODULE A&T - FM 10															
5C1359	DN	Receipt inspection	1	09OCT03	09OCT03	4	E	0							
5C1360	DN	Mass properties measurement	1	10OCT03	10OCT03	35	E	0							
5C1361	DN	PEM CES integration	1	13OCT03	13OCT03	35	E	0							
5C1362	DN	Muon calibration #1	1	14OCT03	14OCT03	35	E	0							
5C1363	DN	PEM-to-AFEE integration	5	15OCT03	21OCT03	35	E	0							
5C1363B		TEM & PS Functional Check	2	22OCT03	23OCT03	35		0							
5C1364	DN	TEM & PS integration	1	24OCT03	24OCT03	35	E	0							
5C1365	DN	Comprehensive State Functional test	2	27OCT03	28OCT03	35	E	0							
5C1366	DN	Electronic calib	1	29OCT03	29OCT03	35	E	0							
5C1367	DN	Muon calibration #2	2	30OCT03	31OCT03	35	E	0							
5C1368	DN	Mass properties #2	1	03NOV03	03NOV03	35	E	0							
5C1369	DN	9 & 10 Thermal vac functional test	10	04NOV03	13NOV03	61	E	0							
5C1370	DN	Vibration test	3	14NOV03	18NOV03	34	E	0							
5C1371	DN	Muon calibration #3	2	19NOV03	20NOV03	34	E	0							
5C1372	DN	Comprehensive Functional Test #2	2	21NOV03	24NOV03	34	E	0							
5C1373	DN	Preship review and signoff	1	25NOV03	25NOV03	34	E	0							
5C1374		margin	6	26NOV03	05DEC03	34		0							
5C1375	DN	AV: Flight Calorimeter Tower 10 RFI	7	08DEC03	16DEC03	34	E	0							
4.1.5.9.2.D MODULE A&T - FM 11															
5C1379	DN	Receipt inspection	1	23OCT03	23OCT03	4	E	0							
5C1380	DN	Mass properties measurement	1	24OCT03	24OCT03	35	E	0							
5C1381	DN	PEM CES integration	1	27OCT03	27OCT03	35	E	0							
5C1382	DN	Muon calibration #1	1	28OCT03	28OCT03	35	E	0							
5C1383	DN	PEM-to-AFEE integration	5	29OCT03	04NOV03	35	E	0							
5C1383B		TEM & PS Functional Check	2	05NOV03	06NOV03	35		0							
5C1384	DN	TEM & PS integration	1	07NOV03	07NOV03	35	E	0							
5C1385	DN	Comprehensive State Functional test	2	10NOV03	11NOV03	35	E	0							
5C1386	DN	Electronic calib	1	12NOV03	12NOV03	35	E	0							
5C1387	DN	Muon calibration #2	2	13NOV03	14NOV03	35	E	0							
5C1388	DN	Mass properties #2	1	17NOV03	17NOV03	35	E	0							
5C1390	DN	Vibration test	3	15DEC03	17DEC03	24	E	0							
5C1391	DN	Muon calibration #3	2	18DEC03	19DEC03	24	E	0							
5C1392	DN	Comprehensive Functional Test #2	2	22DEC03	23DEC03	24	E	0							
5C1393	DN	Preship review and signoff	1	02JAN04	02JAN04	24	E	0							
5C1394		margin	4	05JAN04	08JAN04	24		0							
5C1395	DN	AV: Flight Calorimeter Tower 11 RFI	9	09JAN04	22JAN04	24	E	0							
4.1.5.9.2.E MODULE A&T - FM 12															
5C1399	DN	Receipt inspection	1	06NOV03	06NOV03	4	E	0							
5C1400	DN	Mass properties measurement	1	07NOV03	07NOV03	25	E	0							
5C1401	DN	PEM CES integration	1	10NOV03	10NOV03	25	E	0							
5C1402	DN	Muon calibration #1	1	11NOV03	11NOV03	25	E	0							
5C1403	DN	PEM-to-AFEE integration	5	12NOV03	18NOV03	25	E	0							
5C1403B		TEM & PS Functional Check	2	19NOV03	20NOV03	25		0							
5C1404	DN	TEM & PS integration	1	21NOV03	21NOV03	25	E	0							
5C1405	DN	Comprehensive State Functional test	2	24NOV03	25NOV03	25	E	0							
5C1406	DN	Electronic calib	1	26NOV03	26NOV03	25	E	0							
5C1407	DN	Muon calibration #2	2	01DEC03	02DEC03	25	E	0							
5C1408	DN	Mass properties #2	1	03DEC03	03DEC03	25	E	0							
5C1409	DN	11 & 12 Thermal vac functional test	10	04DEC03	13DEC03	45	E	0							
5C1410	DN	Vibration test	2	15DEC03	16DEC03	26	E	0							
5C1411	DN	Muon calibration #3	1	17DEC03	17DEC03	26	E	0							
5C1412	DN	Comprehensive Functional Test #2	2	18DEC03	19DEC03	26	E	0							
5C1413	DN	Preship review and signoff	1	22DEC03	22DEC03	26	E	0							
5C1414		margin	6	23DEC03	08JAN04	26		0							
5C1415	DN	AV: Flight Calorimeter Tower 12 RFI	7	09JAN04	20JAN04	26	E	0							
4.1.5.9.2.F MODULE A&T - FM 13															
5C1419	DN	Receipt inspection	1	20NOV03	20NOV03	4	E	0							
5C1420	DN	Mass properties measurement	1	21NOV03	21NOV03	25	E	0							
5C1421	DN	PEM CES integration	1	24NOV03	24NOV03	25	E	0							
5C1422	DN	Muon calibration #1	1	25NOV03	25NOV03	25	E	0							
5C1423	DN	PEM-to-AFEE integration	5	26NOV03	04DEC03	25	E	0							
5C1423B		TEM & PS Functional Check	2	05DEC03	08DEC03	25		0							
5C1424	DN	TEM & PS integration	1	09DEC03	09DEC03	25	E	0							
5C1425	DN	Comprehensive State Functional test	2	10DEC03	11DEC03	25	E	0							
5C1426	DN	Electronic calib	1	12DEC03	12DEC03	25	E	0							
5C1427	DN	Muon calibration #2	2	15DEC03	16DEC03	25	E	0							
5C1428	DN	Mass properties #2	1	17DEC03	17DEC03	25	E	0							
5C1430	DN	Vibration test	3	20JAN04	22JAN04	17	E	0							
5C1431	DN	Muon calibration #3	2	23JAN04	26JAN04	17	E	0							
5C1432	DN	Comprehensive Functional Test #2	2	27JAN04	28JAN04	17	E	0							
5C1433	DN	Preship review and signoff	1	29JAN04	29JAN04	17	E	0							
5C1434		margin	4	30JAN04	04FEB04	17		0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
5C1435	DN	AV: Flight Calorimeter Tower 13 RFI	7	05FEB04	13FEB04	17	E	0							
4.1.5.9.2.G MODULE A&T - FM 14															
5C1439	DN	Receipt inspection	1	08DEC03	08DEC03	4	E	0							
5C1440	DN	Mass properties measurement	1	09DEC03	09DEC03	15	E	0							
5C1441	DN	PEM CES integration	1	10DEC03	10DEC03	15	E	0							
5C1442	DN	Muon calibration #1	1	11DEC03	11DEC03	15	E	0							
5C1443	DN	PEM-to-AFEE integration	5	12DEC03	18DEC03	15	E	0							
5C1443B		TEM & PS Functional Check	2	19DEC03	22DEC03	15		0							
5C1444	DN	TEM & PS integration	1	23DEC03	23DEC03	15	E	0							
5C1445	DN	Comprehensive State Functional test	2	02JAN04	05JAN04	15	E	0							
5C1446	DN	Electronic calib	1	06JAN04	06JAN04	15	E	0							
5C1447	DN	Muon calibration #2	2	07JAN04	08JAN04	15	E	0							
5C1448	DN	Mass properties #2	1	09JAN04	09JAN04	15	E	0							
5C1449	DN	13 & 14 Thermal vac functional test	9	10JAN04	18JAN04	24	E	0							
5C1450	DN	Vibration test	3	20JAN04	22JAN04	17	E	0							
5C1451	DN	Muon calibration #3	2	23JAN04	26JAN04	17	E	0							
5C1452	DN	Comprehensive Functional Test #2	2	27JAN04	28JAN04	17	E	0							
5C1453	DN	Preship review and signoff	1	29JAN04	29JAN04	17	E	0							
5C1454		margin	4	30JAN04	04FEB04	17		0							
5C1455	DN	AV: Flight Calorimeter Tower 14 RFI	7	05FEB04	13FEB04	17	E	0							
4.1.5.9.2.H MODULE A&T - FM 15															
5C1459	DN	Receipt inspection	1	22DEC03	22DEC03	4	E	0							
5C1460	DN	Mass properties measurement	1	23DEC03	23DEC03	14	E	0							
5C1461	DN	PEM CES integration	1	02JAN04	02JAN04	14	E	0							
5C1462	DN	Muon calibration #1	1	05JAN04	05JAN04	14	E	0							
5C1463	DN	PEM-to-AFEE integration	5	06JAN04	12JAN04	14	E	0							
5C1463B		TEM & PS Functional Check	2	13JAN04	14JAN04	14		0							
5C1464	DN	TEM & PS integration	1	15JAN04	15JAN04	14	E	0							
5C1465	DN	Comprehensive State Functional test	2	16JAN04	20JAN04	14	E	0							
5C1466	DN	Electronic calib	1	21JAN04	21JAN04	14	E	0							
5C1467	DN	Muon calibration #2	2	22JAN04	23JAN04	14	E	0							
5C1468	DN	Mass properties #2	1	26JAN04	26JAN04	14	E	0							
5C1470	DN	Vibration test	3	19FEB04	23FEB04	4	E	0							
5C1471	DN	Muon calibration #3	2	24FEB04	25FEB04	4	E	0							
5C1472	DN	Comprehensive Functional Test #2	2	26FEB04	27FEB04	4	E	0							
5C1473	DN	Preship review and signoff	1	01MAR04	01MAR04	4	E	0							
5C1474		margin	6	02MAR04	09MAR04	4		0							
5C1475	DN	AV: Flight Calorimeter Tower 15 RFI	7	10MAR04	18MAR04	4	E	0							
4.1.5.9.2.I MODULE A&T - FM 16															
5C1479	DN	Receipt inspection	1	14JAN04	14JAN04	4	E	0							
5C1480	DN	Mass properties measurement	1	15JAN04	15JAN04	4	E	0							
5C1481	DN	PEM CES integration	1	16JAN04	16JAN04	4	E	0							
5C1482	DN	Muon calibration #1	1	20JAN04	20JAN04	4	E	0							
5C1483	DN	PEM-to-AFEE integration	5	21JAN04	27JAN04	4	E	0							
5C1483B		TEM & PS Functional Check	2	28JAN04	29JAN04	4		0							
5C1484	DN	TEM & PS integration	1	30JAN04	30JAN04	4	E	0							
5C1485	DN	Comprehensive State Functional test	2	02FEB04	03FEB04	4	E	0							
5C1486	DN	Electronic calib	1	04FEB04	04FEB04	4	E	0							
5C1487	DN	Muon calibration #2	2	05FEB04	06FEB04	4	E	0							
5C1488	DN	Mass properties #2	1	09FEB04	09FEB04	4	E	0							
5C1489	DN	15 & 16 Thermal vac functional test	9	10FEB04	18FEB04	6	E	0							
5C1490	DN	Vibration test	3	19FEB04	23FEB04	4	E	0							
5C1491	DN	Muon calibration #3	2	24FEB04	25FEB04	4	E	0							
5C1492	DN	Comprehensive Functional Test #2	2	26FEB04	27FEB04	4	E	0							
5C1493	DN	Preship review and signoff	1	01MAR04	01MAR04	4	E	0							
5C1494		margin	6	02MAR04	09MAR04	4		0							
5C1495	DN	AV: Flight Calorimeter Tower 16 RFI	7	10MAR04	18MAR04	4	E	0							
4.1.5.9.3 CAL MODULES GSE															
4.1.5.9.3.1 CAL MODULE MECHANICAL GSE															
5C1580		CAL Module Shipping Container Specification	1	08JAN02	08JAN02	55		0							
5C1590		Handling Dolly Specification	1	08JAN02	08JAN02	4		0							
5C1587	DN	EM Translation Stage	66	08JAN02	11APR02	321	E	0							
5C1588	DN	PEM Mechanical Inspection Eqpmt	66	08JAN02	11APR02	230	E	0							
5C1585	DN	EM Shipping Container Fab	66	09JAN02	12APR02	55	E	0							
5C1591	DN	Handling Dolly Fabrication - EM	66	09JAN02	12APR02	29	E	0							
5C1593	DN	Rotation Assy Stand	66	09JAN02	12APR02	4	E	0							
5C1586	DN	Flight Shipping Containers	100	17JUL02	06DEC02	55	A	0							
5C1592	DN	Handling Dollies - Flight Units	66	10OCT02	23JAN03	29	E	0							
5C1594	DN	2nd Rotation Assy Stand	66	14NOV02	28FEB03	4	E	0							
4.1.5.9.3.2 CAL MODULE ELECTRICAL GSE															
5C1600	DN	EGSE Design and Specification	66	01NOV01	14FEB02	14	E	0							
5C1610	DN	EGSE Hardware Procurements - 1st 2 units	22	15FEB02	19MAR02	14	E	0							
5C1625	DN	Muon Telescope #1	22	15FEB02	19MAR02	22	E	0							
5C1615	DN	PEM Checkout Electronics	66	15FEB02	20MAY02	203	E	0							
5C1630	DN	Muon Telescope #2	22	14JAN03	13FEB03	14	E	0							
5C1620	DN	EGSE Hardware Procurements - remaining units	44	14JAN03	18MAR03	14	E	0							
5C1640		ND: EM2 TEM Units (6)	0		17MAR03	53		0							
4.1.5.9.4 CAL GSE SW															
5C1700	DN	EGSE Software - Release 1	66	14MAR02	14JUN02	43	E	0							
5C1710	DN	Software Release 2	66	17JUN02	18SEP02	43	E	0							
5C1720	DN	Beam Test Support - Release 3	22	19SEP02	18OCT02	43	E	0							
5C1730	DN	Software Release 4	120	21OCT02	21APR03	43	A	0							
5C1735	DN	Software Release 5	120	22APR03	09OCT03	497	A	0							
5C1740	DN	Software Release 6	112	10OCT03	30MAR04	497	A	0							
4.1.5.9.5 CALORIMETER A&T FACILITIES SUPPORT															
5C1564	DN	Lab Facility Support (M&S)	677	01OCT01A	29JUN04	433	A	3							
4.1.5.A INSTRUMENT I&T SUPPORT															
5C1503A	DN	LAT I&T Travel (FY03)	64	01JUL03	30SEP03	246	E	0							
5C1503B	DN	LAT I&T Travel (FY04)	248	01OCT03	30SEP04	246	A	0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
5C1503C	DN	LAT I&T Travel (FY05)	122	01OCT04	04APR05	246	A	0							
4.1.5.A.1 INSTRUMENT INTEGRATION SUPPORT															
5C1500		Integrate FM3 with Grid	10	05JAN04	16JAN04	151		0							
5C1499	DN	Instrument Integration	129	05JAN04	07JUL04	1	A	0							
5C1501		Integrate FM 16 with Grid	10	18MAR04	31MAR04	110		0							
5C1502		Integrate FM 1 with Grid	10	13MAY04	26MAY04	80		0							
5C1503		Integrate FM 2 with Grid	10	27MAY04	10JUN04	80		0							
4.1.5.A.2 CALIBRATION UNITS															
4.1.5.A.2.2 ASSEMBLY & FUNCTIONAL TEST SUPPORT															
5C1505	DN	Integrate FM A & B	10	18AUG03	29AUG03	68	E	0							
5C1506	DN	Integrate FM 1 & 2	10	04NOV03	17NOV03	13	E	0							
5C1506A	DN	Functional Testing	73	18NOV03	12MAR04	13	A	0							
4.1.5.A.2.3 SLAC BEAM TEST SUPPORT															
5C1507	DN	SLAC Beam Test Support	43	15MAR04*	12MAY04	13	E	0							
5C1507A	DN	Beam Test Analysis	189	15MAR04	09DEC04	13	A	0							
4.1.5.A.3 INSTRUMENT TEST SUPPORT															
5C1509	DN	Instrument Functional Testing - SLAC	60	08JUL04	30SEP04	1	E	0							
5C1509A	DN	Instrument Environmental Testing - NRL	59	01OCT04	03JAN05	2	E	0							
5C1509D	DN	Test Analysis	367	01OCT04	30MAR06	1	A	0							
5C1509B	DN	PreShip Review Support	15	04JAN05	25JAN05	2	E	0							
5C1509C	DN	Schedule Contingency	40	26JAN05	23MAR05	2	E	0							
4.1.5.B SPACE CRAFT (SC) INTEGRATION SUPPORT															
5C1510	DN	S/C Integration Support	127	28MAR05*	23SEP05	0	A	0							
5C1511	DN	L/V and Launch Support	103	26OCT05	31MAR06	0	A	0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07	
4.1.6 ANTICOINCIDENCE DETECTOR																
6A90000180	DG	Civil Servant Labor Hours - Actuals	1,484	03APR00A	31MAR06	0	A	27								Civil Servant
6A80000000	DG	Contract Start	0		03APR00A			100								
6A80001140		ACD-PDR Peer Review	0		26JUL01A			100								
6A80001160		ACD Ready for I-PDR	0	08JAN02*		0		0								
6A90000080		AV: High Voltage Power Supply (Bd & Parts)	0		03JUN02*	0		0								
6A80001180		Ready for ACD CDR	0		26JUN02	0		0								
6A90000060		AV: Test / Screening Board w/ ASIC - EM1	0		01JUL02*	0		0								
6A80001200		ACD Ready for I-CDR	0	06AUG02		0		0								
6A90000070		AV: (11) FREE Bds & ASICS, 1Fully Tested Bd- EM2	0		03MAR03*	0		0								
6A83000200		Thermal Blanket RFI	0		27APR04*	0		0								
4.1.6.1 ACD PROJECT MANAGEMENT/SUBSYSTEM ENGINEERING																
6A90001000	DG	Actuals \$ FY '00 - FY '01	374	03APR00A	28SEP01A		A	100								Actuals \$ FY '00 - FY '01
4.1.6.1.1 PROJECT MANAGEMENT																
4.1.6.1.1.1 PROJECT ADMINISTRATION/SUPPORT																
6A80000060	DG	Project Administration / Support	1,506	03APR00A	28SEP01A			100								Project Administration / Support
6A80000120	DG	\$Project Admin/Supt - FY02	247*	01OCT01A	30SEP02	0	A	9								\$Project Admin/Supt - FY02
6A80000370	DG	\$Project Admin/Supt - FY03	247	01OCT02	30SEP03	0	A	0								\$Project Admin/Supt - FY03
6A80000380	DG	\$Project Admin/Supt - FY04	248	01OCT03	30SEP04	0	A	0								\$Project Admin/Supt - FY04
6A80000390	DG	\$Project Admin/Supt - FY05	248	01OCT04	30SEP05	0	A	0								\$Project Admin/Supt - FY05
6A80000400	DG	\$Project Admin/Supt - FY06	120	03OCT05	31MAR06	0	A	0								\$Project Admin/Supt - FY06
4.1.6.1.1.2 CONTRACTS/PROCUREMENT																
6A80000070	DG	Contracts / Procurement	1,506	03APR00A	28SEP01A			100								Contracts / Procurement
6A80000410	DG	\$Contracts / Procurement - FY02	247	01OCT01A	30SEP02	0	A	9								\$Contracts / Procurement - FY02
6A80000420	DG	\$Contracts / Procurement - FY03	247	01OCT02	30SEP03	0	A	0								\$Contracts / Procurement - FY03
6A80000430	DG	\$Contracts / Procurement - FY04	23	01OCT03	31OCT03	225	E	0								\$Contracts / Procurement - FY04
4.1.6.1.1.3 PROJECT CONTROL																
6A80000080	DG	Project Control	1,506	03APR00A	28SEP01A			100								Project Control
6A80000440	DG	\$Project Control - FY02	247	01OCT01A	30SEP02	0	A	9								\$Project Control - FY02
6A80000450	DG	\$Project Control - FY03	247	01OCT02	30SEP03	0	A	0								\$Project Control - FY03
6A80000460	DG	\$Project Control - FY04	248	01OCT03	30SEP04	0	A	0								\$Project Control - FY04
6A80000470	DG	\$Project Control - FY05	248	01OCT04	30SEP05	0	A	0								\$Project Control - FY05
6A80000480	DG	\$Project Control - FY06	120	03OCT05	31MAR06	0	A	0								\$Project Control - FY06
4.1.6.1.1.4 PROJECT SCHEDULING																
6A80000090	DG	Project Scheduling	1,506	03APR00A	28SEP01A			100								Project Scheduling
6A80000490	DG	\$Project Scheduling - FY02	247	01OCT01A	30SEP02	0	A	9								\$Project Scheduling - FY02
6A80000500	DG	\$Project Scheduling - FY03	247	01OCT02	30SEP03	0	A	0								\$Project Scheduling - FY03
6A80000820	DG	\$Project Scheduling - FY04	248	01OCT03	30SEP04	0	A	0								\$Project Scheduling - FY04
6A80000850	DG	\$Project Scheduling - FY05	248	01OCT04	30SEP05	0	A	0								\$Project Scheduling - FY05
6A80001090	DG	\$Project Scheduling - FY06	120	03OCT05	31MAR06	0	A	0								\$Project Scheduling - FY06
4.1.6.1.1.5 CONFIGURATION & DATA MANAGEMENT																
6A80000100	DG	CDM	1,506	03APR00A	28SEP01A			100								CDM
6A80001150	DG	\$CDM - FY02	247	01OCT01A	30SEP02	0	A	9								\$CDM - FY02
6A80001170	DG	\$CDM - FY03	247	01OCT02	30SEP03	0	A	0								\$CDM - FY03
6A80001190	DG	\$CDM - FY04 (1st Half)	120	01OCT03	31MAR04	0	A	0								\$CDM - FY04 (1st Half)
6A80001210	DG	\$CDM - FY04 (2nd Half)	128	01APR04	30SEP04	0	A	0								\$CDM - FY04 (2nd Half)
6A80001220	DG	\$CDM - FY05	184	01OCT04	30JUN05	64	A	0								\$CDM - FY05
4.1.6.1.1.9 ACD SHIPPING																
6A80001240	DG	\$Shipping Support - FY02	247	01OCT01A	30SEP02	0	A	9								\$Shipping Support - FY02
6A80001480	DG	\$Shipping Support - FY03	247	01OCT02	30SEP03	0	A	0								\$Shipping Support - FY03
6A80003390	DG	DAQ I/F Test Unit to SLAC (\$)	1	05MAR03	05MAR03	212	E	0								DAQ I/F Test Unit to SLAC (\$)
6A80001660	DG	DeliverDAQ I/F Test Unit to SLAC	0		05MAR03	212		0								DeliverDAQ I/F Test Unit to SLAC
6A80001490	DG	\$Shipping Support - FY04	248	01OCT03	30SEP04	0	A	0								\$Shipping Support - FY04
6A80004070	DG	Pack & Ship Cal Model (\$)	10	20OCT03	31OCT03*	0	E	0								Pack & Ship Cal Model (\$)
6A80001690	DG	Deliver Cal Model to SLAC	0		31OCT03*	0		0								Deliver Cal Model to SLAC
6A80001230	DG	Pack & Ship Flight Model (\$)	10	09APR04	22APR04	2	E	0								Pack & Ship Flight Model (\$)
6A80001700	DG	Deliver Flight Model to SLAC	0		22APR04	2		0								Deliver Flight Model to SLAC
6A80001500	DG	\$Shipping Support - FY05	248	01OCT04	30SEP05	0	A	0								\$Shipping Support - FY05
4.1.6.1.2 SYSTEM/SUBSYSTEMS ENGINEERING																
4.1.6.1.2.1 SYSTEM/SUBSYSTEM REQUIREMENTS/SPECIFICATIONS																
6A80000020	DG	Continue Reqmts Development under Contract	417*	03APR00A	30NOV01	1,067		95								Continue Reqmts Development under Contract
4.1.6.1.2.3 SSUBSYSTEM ANALYSIS & TRADE STUDIES																
6A80000290	DG	Technical requirements, HVPS Decision	120	07NOV00A	30APR01A			100								Technical requirements, HVPS Decision
6A80000330	DG	*Fiber Specification and Selection (by 660)	96	01DEC00A	13APR01A			100								*Fiber Specification and Selection (by 660)
6A80000340	DG	*Tile Segmentation Definition (By 660)	125	01DEC00A	19APR01A		A	100								*Tile Segmentation Definition (By 660)
6A80000510	DG	Decision on the Tile Material and Thickness	72	02JAN01A	13APR01A			100								Decision on the Tile Material and Thickness
6A80000580	DG	*Tile Fabrication Study (By 660 w/Mech Support)	100	01FEB01A	22JUN01A		A	100								*Tile Fabrication Study (By 660 w/Mech Support)
6A80000620	DG	PMT Specification and Selection	112	05FEB01A	13JUL01A			100								PMT Specification and Selection
6A80001710	DG	HVPS Decision	0		30APR01A			100								HVPS Decision
6A80001720	DG	PMT Specification	0		13JUL01A			100								PMT Specification
4.1.6.1.2.4 SYSTEM/SUBSYSTEM ENGINEERING																
6A80000900	DG	System/Subsystem Engineering Support	1,235*	04APR01A	28SEP01A			100								System/Subsystem Engineering Support
6A80001510	DG	\$System/Subsystem Engineering Support - FY02	247	01OCT01A	30SEP02	0	A	9								\$System/Subsystem Engineering Support - FY02
6A80001520	DG	\$System/Subsystem Engineering Support - FY03	247	01OCT02	30SEP03	0	A	0								\$System/Subsystem Engineering Support - FY03
6A80001530	DG	\$System/Subsystem Engineering Support - FY04	248	01OCT03	30SEP04	0	A	0								\$System/Subsystem Engineering Support - FY04
6A80001540	DG	\$System/Subsystem Engineering Support - FY05	248	01OCT04	30SEP05	0	A	0								\$System/Subsystem Engineering Support - FY05
6A80001550	DG	\$System/Subsystem Engineering Support - FY06	120	03OCT05	31MAR06	0	A	0								\$System/Subsystem Engineering Support - FY06
4.1.6.1.3 SCIENCE SUPPORT																
6A80000040	DG	Science Support	1,484*	03APR00A	28SEP01A			100								Science Support
6A80000050	DG	\$Science Support - FY02	247	01OCT01A	30SEP02	0	A	9								\$Science Support - FY02
6A80001570	DG	\$Science Support - FY03	247	01OCT02	30SEP03	0	A	0								\$Science Support - FY03
6A80001580	DG	\$Science Support - FY04	248	01OCT03	30SEP04	0	A	0								\$Science Support - FY04
6A80001590	DG	\$Science Support - FY05	248	01OCT04	30SEP05	0	A	0								\$Science Support - FY05
6A80001600	DG	\$Science Support - FY06	120	03OCT05	31MAR06	0	A	0								\$Science Support - FY06
4.1.6.1.4 SUMULATIONS																
6A80000150	DG	Simulations	1,506	03APR00A	28SEP01A			100								Simulations
6A80001610	DG	\$Simulation Support - FY02	247	01OCT01A	30SEP02	0	A	9								\$Simulation Support - FY02
6A80001620	DG	\$Simulation Support - FY03	247	01OCT02	30SEP03	0	A	0								\$Simulation Support - FY03
6A80001630	DG	\$Simulation Support - FY04	248	01OCT03	30SEP04	0	A	0								\$Simulation Support - FY04

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
6A80001640	DG	\$Simulation Support - FY05	248	01OCT04	30SEP05	0	A	0							
6A80001650	DG	\$Simulation Support - FY06	120	03OCT05	31MAR06	0	A	0							
4.1.6.2 RELIABILITY & QUALITY ASSURANCE															
6A90001010	DG	Actuals \$ FY '00 - FY '01	374	03APR00A	28SEP01A		A	100							
4.1.6.2.1 RELIABILITY															
6A80000950	DG	\$2Perform FMEA & Develop Initial CIL for PDR	135*	01MAY01A	31OCT01A			100							
6A80000960	DG	\$2Develop Initial Limited Life List for PDR	135*	01MAY01A	31OCT01A			100							
6A80001360	DG	\$2Develop Final FMEA and CIL for CDR	138	03DEC01*	26JUN02	0	A	0							
6A80001370	DG	\$2Develop Final Limited Life List for CDR	138	03DEC01*	26JUN02	0	A	0							
6A80000970	DG	\$2Develop Initial Parts Stress Analysis for CDR	167*	03DEC01*	07AUG02	58	A	0							
6A80001730	DG	Final FMEA and CIL Developed for CDR	0		26JUN02	0		0							
6A80001750	DG	Final Limited Life List Developed for CDR	0		26JUN02	0		0							
6A80001930	DG	\$2Update & Maintain FMEA & CIL in FY03	247	01OCT02*	30SEP03	21	A	0							
6A80001940	DG	\$2Update & Maintain Limited Life List in FY03	247	01OCT02*	30SEP03	21	A	0							
6A80004990	DG	\$2Update & Maintain Parts Stress Analysis FY03	247	01OCT02*	30SEP03	21	A	0							
6A80004970	DG	\$2Update & Maintain FMEA & CIL in FY04	117	01OCT03	26MAR04	21	A	0							
6A80004980	DG	\$2Update & Maintain Limited Life List in FY04	117	01OCT03	26MAR04	21	A	0							
6A80005000	DG	\$2Update & Maintain Parts Stress Analysis FY04	117	01OCT03	26MAR04	21	A	0							
4.1.6.2.2 SAFETY															
6A80000160	DG	\$2Safety Non-Compliance Reports (CDRL 305)	374*	03APR00A	28SEP01A			100							
6A80000520	DG	\$2Dev Inputs for Prelim Hazards Analysis for PDR	189*	02JAN01A	28SEP01A			100							
6A80005040	DG	\$2Dev Inputs for Prelim Hazard Analysis for CDR	123	03DEC01*	05JUN02	15	A	0							
6A80005010	DG	\$2Safety Non-Compliance Reports As Req'd FY02	203*	03DEC01*	27SEP02	2	A	0							
6A80001260	DG	\$2Dev Op & Support Hazard Analysis for CDR	88	01FEB02*	06JUN02	14	A	0							
6A80001270	DG	\$2Hazard Control Verification As Req'd FY02	84	03JUN02*	30SEP02	7	A	0							
6A80000170	DG	Prelim Hazard Analysis Inputs for CDR Developed	0		05JUN02	15		0							
6A80000180	DG	Op & Supt Hazard Analysis for CDR Developed	0		06JUN02	14		0							
6A80005020	DG	\$2Safety Non-Compliance Reports As Req'd FY03	247	30SEP02	29SEP03	2	A	0							
6A80001280	DG	\$2Safety Assessment Report As Req'd FY03	247	01OCT02*	30SEP03	7	A	0							
6A80001290	DG	\$2Ground Operations Plan As Req'd FY03	247	01OCT02*	30SEP03	7	A	0							
6A80001680	DG	\$2Update & Maint Op & Supt Hazard Analysis FY03	247	01OCT02*	30SEP03	7	A	0							
6A80005060	DG	\$2Hazard Control Verification As Req'd FY03	247	01OCT02	30SEP03	7	A	0							
6A80005030	DG	\$2Safety Non-Compliance Reports As Req'd FY04	137	30SEP03	22APR04	2	A	0							
6A80005050	DG	\$2Update & Maint Op & Supt Hazard Analysis FY04	131	01OCT03	15APR04	7	A	0							
6A80005070	DG	\$2Hazard Control Verification As Req's FY04	131	01OCT03	15APR04	7	A	0							
6A80005080	DG	\$2Safety Assessment Report As Req'd FY04	131	01OCT03	15APR04	7	A	0							
6A80005090	DG	\$2Ground Operations Plan As Req'd FY04	131	01OCT03	15APR04	7	A	0							
4.1.6.2.3 FLIGHT ASSURANCE															
6A80000570	DG	Receive LAT PAIP	0	01FEB01A				100							
6A80000590	DG	Develop ACD Quality Plan	115	01FEB01A	16JUL01A			100							
6A80001130	DG	Review/Sign-off QA Plan	34*	17JUL01A	31AUG01A			100							
6A80001800	DG	Issue ACD Quality Plan	0	04SEP01A				100							
6A80005100	DG	\$2Flight Assurance Support - FY02	247	01OCT01A	30SEP02	18	A	9							
6A80005110	DG	\$2Flight Assurance Support - FY03	247	01OCT02	30SEP03	18	A	0							
6A80005120	DG	\$2Flight Assurance Support - FY04	120	01OCT03	31MAR04	18	A	0							
4.1.6.2.4 PARTS CONTROL															
6A80001000	DG	\$2Initial PIL & PABL for CDR and PDR	167*	01OCT01A	06JUN02	14	A	14							
6A80001760	DG	PIL & PABL for CDR Developed	0		06JUN02	14		0							
6A80001910	DG	\$2Update & Maintain PIL & PABL As Req'd FY03	247	01OCT02*	30SEP03	18	A	0							
6A80001350	DG	\$2Update & Maintain PIL & PABL As Req'd FY04	120	01OCT03	31MAR04	18	A	0							
4.1.6.2.5 MATERIALS															
6A80000240	DG	\$2Dev Mat'l Processes List (CDRL 317)for	167*	01OCT01A	06JUN02	87	A	14							
6A80002120	DG	\$2Materials & Lubrication Lists for PDR / CDR	167	01OCT01A	06JUN02	14	A	14							
6A80000230	DG	\$2Material Usage Agreements (CDRL 313) for CDR	124	03DEC01*	06JUN02	218	A	0							
6A80001770	DG	Materials & Lubrication Lists for CDR Developed	0		06JUN02	14		0							
6A80000250	DG	\$2PWB Coupon Tests & Report Revws As Req'd	247	01OCT02*	30SEP03	138	A	0							
6A80001250	DG	\$2Update Material Usage Agreement as Req'd	247	01OCT02*	30SEP03	138	A	0							
6A80003000	DG	\$2Maintain Materials & Lubrication Lists FY03	247	01OCT02*	30SEP03	7	A	0							
6A80005130	DG	\$2Update Materials Processes List FY03	247	01OCT02*	30SEP03	7	A	0							
6A80005140	DG	\$2Update Materials Processes List FY04	131	01OCT03	15APR04	7	A	0							
6A80005150	DG	\$2Maintain Materials & Lubrication Lists FY04	131	01OCT03	15APR04	7	A	0							
4.1.6.3 TILE SHELL ASSEMBLY (TSA)															
6A90001020	DG	Actuals \$ FY '00 - FY '01	374	03APR00A	28SEP01A		A	100							
4.1.6.3.1 TSA ANALYSIS/DESIGN															
6A80000840	DG	ACD SRR	1	21MAR01A	22MAR01A			100							
6A80000870	DG	*Develop ACD Mechanical Verification Test Plan	20	02APR01A	27APR01A		E	100							
6A80005190	DG	*ACD Structural Design & Test Loads for ACD Comp	29*	01OCT01A	08NOV01	18	E	50							
6A80005180	DG	*ACD Mechanical Subsystem Prelim Design	44*	01OCT01A	03DEC01	18	E	50							
6A80005160	DG	*ACD Mechanical Systems Specification	59*	01OCT01A	02JAN02	18	E	50							
6A80006390	DG	**Mechanical Travel	620*	01OCT01A	08APR04	2	A	4							
6A80005170	DG	*ACD Mechanical Parts & Materials Lists	20*	09OCT01A	05NOV01	36	E	50							
6A80006380	DG	**Mechanical ADP	597*	01NOV01*	08APR04	370	A	0							
6A80004890	DG	*Fab ACD Fiber Routing Mock-up	24	02JAN02*	05FEB02	988	E	0							
6A80006590	DG	ACD Fiber Routing Mockup Complete	0		05FEB02	988		0							
6A80005320	DG	*Route Fiber Cables	40	06FEB02	03APR02	988	E	0							
6A80002760	DG	*TDA Installation Drawing & Procedure	20	01APR02*	26APR02	364	E	0							
6A80003080	DG	*Develop ACD Handling Procedure	12	16JUL02*	31JUL02	202	E	0							
6A80003100	DG	*TSA Integration & Test and Handling Procedures	22	01AUG02*	30AUG02	180	E	0							
6A80004860	DG	*TDA Integration & Test and Handling Procedures	22	01AUG02*	30AUG02	180	E	0							
6A80003470	DG	*Develop ACD Mechanical Integration Procedure	24	02DEC02*	13JAN03	94	E	0							
6A90000040		AV: ACD Test Scripts	0		02FEB04*	0		0							
4.1.6.3.2 TILE DETECTOR ASSEMBLIES (TDA)															
4.1.6.3.2.1 TDA ANALYSIS/DESIGN															
6A80000610	DG	*Tile & Fiber Wrap Material Eval and Selection	43	05FEB01A	04APR01A		E	100							
6A80000730	DG	*Tile & Fiber Wrap Material Adhesive Testing	119*	20FEB01A	01JUN01A		A	100							
6A80000720	DG	*Tile & Fiber Wrap Material Outgassing Testing	110	12MAR01A	01JUN01A		A	100							
6A80000880	DG	*Proto PMT/Fiber Connector Design & Procedure	44	02APR01A	31MAY01A		E	100							
6A80000920	DG	*Proto WSF Clear Fiber Conn Design & Procedure	44	02APR01A	22JUN01A		E	100							
6A80000940	DG	*Tile & Fiber Wrap Material Opaque Testing	121*	23APR01A	01JUN01A		A	100							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01 FY02 FY03 FY04 FY05 FY06 FY07							
6A80001050	DG	*Fabrication of Proto PMT/Fiber Connector	26	04JUN01A	03JUL01A		E	100								
6A80000550	DG	*Tile Layout Design	88*	04JUN01A	28SEP01A		A	100								
6A80002340	DG	*Proto WSF/Clear Fiber Conn Vendor Select'n & FM	103*	04JUN01A	28SEP01A		A	100								
6A80001410	DG	*Tile & Fiber Wrapping Material Selection Review	1	11JUN01A	11JUN01A		E	100								
6A80001120	DG	*TDA Assembly Procedure	78*	11JUN01A	28SEP01A		E	100								
6A80000640	DG	**Tile & Fiber Wrapping Design	99*	28SEP01A	28FEB02	139	A	24								
6A80001020	DG	**Individual Tile Design & Drawings (Test, TU, &	120*	28SEP01A	29MAR02	143	A	20								
6A80006400	DG	**Complete Tile Layout Design	6	01OCT01A	08OCT01A		E	100								
6A80006420	DG	**Complete WSF/Clear Fiber Conn Vendor Select &	21	01OCT01A	29OCT01A		E	100								
6A80002270	DG	*Prototype TDA Fab & Assembly - Fermi	140*	01OCT01A	29APR02	35	A	16								
6A80001070	DG	*Fabrication of Proto WSF/Clear Fiber Connector	22	05NOV01*	06DEC01	118	E	0								
6A80002260	DG	*Prototype TDA Performance Testing by 660	25	03DEC01*	15JAN02	184	E	0								
6A80002250	DG	*Acceptance Test WSF/Clear Fiber C - Light Yield	10	07DEC01*	20DEC01	118	E	0								
6A80002290	DG	*Thermal Vacuum Cycling on at Least 1 Test Unit	10	19FEB02*	04MAR02	162	E	0								
6A80001780	DG	Tile & Fiber Wrapping Design Complete	0		28FEB02	139		0								
6A80001740	DG	**Tile and Fiber Wrap Installation Procedure	25	01MAR02*	04APR02	139	E	0								
6A80002240	DG	*Acceptance Test PMT Fiber Conn - Light Yield	10	01APR02*	12APR02	46	E	0								
6A80001790	DG	Prototype TDA Fab & Assy Complete	0		29APR02	35		0								
6A80006410	DG	**TDA Assembly Procedure Release	6	03JUN02*	10JUN02	93	E	0								
4.1.6.3.2.2 WAVE SHIFTING FIBERS PROCUREMENT																
6A80001420	DG	**Procure Tile & Fiber Wrap Reflective Materials	21	28SEP01A	26OCT01A		E	100								
6A80001430	DG	**Procure Optically Opaque Tile & Fiber Wrap Mat	21	28SEP01A	26OCT01A		E	100								
6A80001440	DG	**Procure Tile & Fiber Wrap Adhesives	21	28SEP01A	26OCT01A		E	100								
4.1.6.3.2.6 CAL UNIT TDSa PROC/FAB/ASSY/TEST																
6A80002450	DG	*TU Termination & Test (20 PMT/Fiber Conn Cables	45	03DEC01*	13FEB02	174	E	0								
6A80002460	DG	*TU Termination & Test (20 WSF/Clear Fiber Conn	45	03DEC01*	13FEB02	174	E	0								
6A80002580	DG	*TU TDA Fab & Assembly (20 TDA's) - Fermi	65	30APR02	31JUL02	35	E	0								
6A80002880	DG	*TU TDA Acceptance Testing by 660 (20 TDA's)	22	01AUG02	30AUG02	35	E	0								
6A80002950	DG	TU TDA Acceptance Testing Complete	0		30AUG02	35		0								
4.1.6.3.2.7 FLIGHT MODEL TDA PROC/FAB/ASSY/TEST																
6A80002700	DG	*Flight Termination & Test (80 PMT/Fiber Cables)	60	08MAR02*	31MAY02	228	E	0								
6A80002710	DG	*Flight Termination & Test (80 WSF/Clear Cables)	60	08MAR02*	31MAY02	228	E	0								
6A80002990	DG	*Flight TDA Fab & Assembly (89 TDAs) - Fermi	124	03SEP02	10MAR03	35	A	0								
6A80003380	DG	*Flight TDA Acceptance Testing (by 660)(89 TDA's)	35	27JAN03	17MAR03	35	E	0								
6A80002730	DG	Flight TDA Acceptance Testing Complete	0		17MAR03	94		0								
6A80005300	DG	*Flight Spare TDA Fab & Assy (28 TDAs) - Fermi	61	18MAR03	11JUN03	35	E	0								
6A80005310	DG	*Flight Spare TDA Accept Test (by 660)(28 TDAs)	10	12JUN03	25JUN03	35	E	0								
6A80002770	DG	Flight Spare TDA Acceptance Testing Complete	0		25JUN03	35		0								
4.1.6.3.3 SHELL SUBASSEMBLY																
4.1.6.3.3.1 SHELL SUBASSEMBLY ANALYSIS/DESIGN																
6A80000350	DG	*Shell Design Analysis	304*	01DEC00A	28SEP01A		A	100								
6A80000360	DG	*Shell Design	264*	01DEC00A	28SEP01A		A	100								
6A80000540	DG	*Shell Requirements Definition	112	16JAN01A	22JUN01A		A	100								
6A80000630	DG	*Shell Material Studies	176*	05FEB01A	28SEP01A		A	100								
6A80006440	DG	**Complete Shell Material Studies	11	01OCT01A	12OCT01A		E	100								
6A80006430	DG	**Complete Shell Design	59*	01OCT01A	02JAN02	141	E	50								
6A80004030	DG	**Complete Shell Design Analysis	99*	01OCT01A	01MAR02	101	A	23								
6A80001860	DG	*Shell Peer Review	1	03DEC01*	03DEC01	156	E	0								
6A80006600	DG	Shell Design Complete	0		02JAN02	141		0								
6A80001870	DG	*Shell TU Procurement Specification and Award	20	04MAR02	29MAR02	101	E	0								
6A80002110	DG	*TU Shell Fabrication/Assembly	45	01APR02	03JUN02	101	E	0								
6A80002490	DG	*TU Shell Delivery/Shipping	5	04JUN02	10JUN02	101	E	0								
6A80002500	DG	TU Shell Delivered to GSFC	0		10JUN02	101		0								
4.1.6.3.3.4 CAL UNIT SHELL/FRAME SUBASSEMBLY PROC/FAB/ASSY/T																
6A80003250	DG	Proc/Fab DAQ I/F Unit Mounting & Assy Pieces	40	07AUG02	02OCT02	201		0								
6A80003210	DG	Cal Unit Frame/Shell Fabrication	40	12AUG02	07OCT02	194		0								
6A80003320	DG	Cal Unit Frame/Shell Delivery	4	08OCT02	11OCT02	194		0								
4.1.6.3.3.5 FLIGHT MODEL SHELL SUBASSEMBLY PROC/FAB/ASSY/TES																
6A80002560	DG	*Flight Shell Procurement Spec & Award	30	23SEP02*	01NOV02	59	E	0								
6A80003360	DG	*Flight Shell Fabrication/Assembly	66	04NOV02*	18FEB03	59	E	0								
6A80003610	DG	*Flight Shell Delivery/Shipping	5	19FEB03	25FEB03	59	E	0								
6A80003640	DG	Flight Shell Delivered to GSFC	0		25FEB03	59		0								
6A80003620	DG	*Flight Shell Strength Testing Upon Delivery	6	26FEB03	05MAR03	59	E	0								
4.1.6.3.4 TILE MOUNTING HW & ASSEMBLIES																
4.1.6.3.4.1 TILE MOUNTING HW ANALYSIS/DESIGN																
6A80000790	DG	*Fiber to Tile Installation Design (Groove Spaci	147*	05MAR01A	28SEP01A		A	100								
6A80000800	DG	*Fiber Routing & Tiedown Design	194*	13MAR01A	28SEP01A		A	100								
6A80006450	DG	**Complete Fiber to Tile Installation Design	5	01OCT01A	05OCT01A		E	100								
6A80006460	DG	**Complete Fiber Routing & Tiedown Design	53*	01OCT01A	14DEC01	354	E	0								
6A80002330	DG	*TDA Tiedown Prototype Design	121*	01OCT01A	02APR02	119	A	19								
6A80002380	DG	*TDA Tiedown Prototype Analysis	96	05NOV01*	02APR02	119	A	0								
6A80002750	DG	*TDA Tiedown Prototype Fabrication & Assembly	40	03APR02	29MAY02	119	E	0								
6A80002780	DG	Proto TDA Tiedown Fab/Assy Complete	0		29MAY02	119		0								
6A80002910	DG	*TDA Tiedown Prototype Static Load Test	2	30MAY02	31MAY02	119	E	0								
6A80004870	DG	*TDA Tiedown Prototype Thermal Test	3	03JUN02	05JUN02	119	E	0								
6A80002940	DG	*TDA Tiedown Prototype Vibration Test	5	06JUN02	12JUN02	119	E	0								
6A80003060	DG	Proto TDA Tiedown Vibe Test Complete	0		12JUN02	119		0								
6A80003030	DG	*TU TDA Tiedown Fabrication and Assembly	66	01JUL02*	02OCT02	107	E	0								
4.1.6.3.4.5 FLIGHT UNIT TILE MOUNTING HW & ASSEMBLIES																
6A80003480	DG	*Flight TDA Tiedown Fabrication & Assembly	66	02DEC02*	14MAR03	67	E	0								
6A80003490	DG	Flight TDA Tiedown Fab/Assy Complete	0		14MAR03	72		0								
4.1.6.3.7 CAL UNIT TSA SPECIAL/SMALL I&T																
6A80006570	DG	DAQ I/F Test Unit Planning Package	224	01NOV01*	30SEP02	277	A	0								
6A80006580	DG	Calibration Unit Planning Package	282*	01NOV01*	23DEC02	2	A	0								
6A80006610	DG	DAQ I/F Test Unit TSA Planning Pkg Complete	0		30SEP02	277		0								
6A80003560	DG	DAQ I/F Unit TSA Equivalent Assembly & Test	15	03OCT02	23OCT02	275		0								
6A80006620	DG	Cal Unit TSA Planning Pkg Complete	0		23DEC02	2		0								
6A80003530	DG	Last Cal Unit TSA Equivalent H/W Available	0		17MAR03	94		0								
6A80003420	DG	Cal Unit TSA Equivalent Assembly	15	18MAR03	07APR03	94		0								

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
6A80003510	DG	Cal Unit TSA Equivalent Integration & Test	15	20MAR03	09APR03	94		0							
4.1.6.3.8 FLIGHT MODEL TSA I&T															
6A80004730		Sub System ACD RFI's	0		31OCT01	406		0							
6A80003350	DG	*TSA TU Section Integration (Install Mass Sims)	10	11JUN02	24JUN02	101	E	0							
6A80004880	DG	*TSA TU Section Vibration Testing	10	25JUN02	09JUL02	101	E	0							
6A80005290	DG	*TSA TU Thermal Testing	10	10JUL02	23JUL02	101	E	0							
6A80005210	DG	*TSA Mech Subsystem Integr (Install Mass Sims)	20	06MAR03	02APR03	59	E	0							
6A80005200	DG	*BEA Mech Subsys Integr (Install Mass Sims)	20	20MAR03	16APR03	49	E	0							
6A80003730	DG	*ACD Mechanical Subsystem Integration	2	17APR03	18APR03	49	E	0							
6A80003860	DG	*ACD Mechanical Subsys Mass Property Testing	3	21APR03	23APR03	49	E	0							
6A80005220	DG	*ACD Mechanical Subsys Vibration Testing	10	24APR03	07MAY03	49	E	0							
6A80006630	DG	ACD Mech Subsys Vibe Test Complete	0		07MAY03	49		0							
6A90000090		ND: Flight Grid fr Mechanical for Fit Test	0		08MAY03*	68		0							
6A80005230	DG	*ACD Mechanical Subsys Acoustics Testing	5	08MAY03	14MAY03	49	E	0							
6A80005240	DG	*ACD Mechanical Subsys Thermal Cycle Test	9	15MAY03	28MAY03	49	E	0							
6A80005250	DG	*ACD Mechanical Subsys De-integr (Rmv Mass	6	29MAY03	05JUN03	49	E	0							
6A80005260	DG	*Deliver Qualified Mech H/W to ACD I&T	1	26JUN03	26JUN03	35	E	0							
6A80006640	DG	Deliver Qualified Mech H/W to I&T	0		26JUN03	35		0							
4.1.6.4 BAE ELECTRONICS ASSEMBLY (BEA)															
6A90001030	DG	Actuals \$ FY '00 - FY '01	374	03APR00A	28SEP01A		A	100							
6A90000120		ND: (1) Prototype ACD Electronic Module	0		15MAR02*	139		0							
6A90000150		ND: EGSE Workstation / Software #1	0		15MAR02*	139		0							
4.1.6.4.1 BEA ANALYSIS/DESIGN															
6A80000670	DG	*Develop ICD between BEA and LAT	32	15FEB01A	30MAR01A		E	100							
6A80000890	DG	**Maintain ICD Between BEA and LAT	230*	28SEP01A	04SEP02	881	A	10							
6A80005960	DG	-Draft BEA I&T Document	472	01NOV01*	01OCT03	614	A	0							
6A80005970	DG	-Draft BEA Handling Procedures	472	01NOV01*	01OCT03	614	A	0							
6A80005980	DG	-Draft BEA ICD	472	01NOV01*	01OCT03	127	A	0							
6A80005990	DG	-Draft BEA Elect/Mech Drawing	472	01NOV01*	01OCT03	127	A	0							
6A80003110	DG	*BEA Integration & Test and Handling Procedures	22	31MAY02*	01JUL02	223	E	0							
6A80006650	DG	Draft BEA Mech/Elect Dwg Complete	0		01OCT03	127		0							
4.1.6.4.2 BEA BASE FRAME ELECTRONICS ASSEMBLY															
4.1.6.4.2.1 BASE FRAME ASSEMBLY ANALYSIS/DESIGN															
6A80000740	DG	*Base Frame Design	342*	20FEB01A	28SEP01A		A	100							
6A80000830	DG	*Base Frame Analysis	325*	15MAR01A	28SEP01A		A	100							
6A80006470	DG	**Complete Base Frame Design	187*	28SEP01A	03JUL02	149	A	13							
6A80006480	DG	**Complete Base Frame Analysis	187*	28SEP01A	03JUL02	124	A	13							
6A80006660	DG	Base Frame Design Complete	0		03JUL02	149		0							
6A80002210	DG	*TU Base Frame Fabrication	45	05JUL02	06SEP02	149	E	0							
6A80003370	DG	DAQ I/F Unit Assembly	45	30AUG02	01NOV02	263		0							
6A80002480	DG	*TU Base Frame Delivery	2	09SEP02	10SEP02	149	E	0							
6A80002520	DG	TU Base Frame Delivered to GSFC	0		10SEP02	270		0							
6A80003550	DG	*TU Base Frame Section Integr (Install Mass Sims	10	11SEP02	24SEP02	270	E	0							
6A80002540	DG	Cal Unit Assembly	65	11SEP02	12DEC02	149		0							
6A80003630	DG	*TU Base Frame Section Static Load Test	10	25SEP02	08OCT02	270	E	0							
6A80005280	DG	*TU Base Frame Section Vibration Test	10	09OCT02	22OCT02	270	E	0							
6A80005270	DG	*TU Base Frame Section Delivery to Electricals	1	23OCT02	23OCT02	270	E	0							
6A80006670	DG	TU Base Frame Delivered to Electricals	0		23OCT02	270		0							
4.1.6.4.2.5 FLIGHT FRAME ASSY PROC/FAB/ASSY/TEST															
6A80003690	DG	Flight Base Frame Delivered to GSFC	0		16AUG02	190		0							
6A80003310	DG	*Flight Base Frame Fabrication	96	21OCT02*	18MAR03	49	A	0							
6A80003670	DG	*Flight Base Frame Delivery	1	19MAR03	19MAR03	49	E	0							
4.1.6.4.3 HIGH VOLTAGE POWER SUPPLY ANALYSIS/PROCUREMENT															
6A80001040	DG	HVPS Electrical Design & Breadboard	107*	01JUN01A	31OCT01A			100							
6A80001320	DG	-Go-Ahead for Proof of Design Divider Network	0		28SEP01A			100							
6A80006320	DG	-Divider Network Test Procedures	304*	01OCT01A	20DEC02	318	A	8							
6A80006310	DG	-Divider Network Design & Development Support	305*	01OCT01A	23DEC02	317	A	8							
6A80001670	DG	-Design HVPS Test Set	3*	01NOV01*	05NOV01	361		0							
6A80006280	DG	-Develop HVPS Test Procedures	224*	01NOV01*	30SEP02	375	A	0							
6A80006290	DG	-Quality Assurance Support for HVPS	407	01NOV01*	30JUN03	0	A	0							
6A80006270	DG	-HVPS Design & Development Support	471*	01NOV01*	30SEP03	128	A	0							
6A80005660	DG	-Fab & Test HVPS Test Set	10*	06NOV01	19NOV01	361		0							
6A80005680	DG	-Design & Layout HVPS EU PCB	40	13NOV01*	18JAN02	203	E	0							
6A80005700	DG	-Components Ordered/Delivered for HVPS	40	13NOV01	18JAN02	223	E	0							
6A80005670	DG	-Write LabView for HVPS Test Set	5	20NOV01	28NOV01	361		0							
6A80001330	DG	-Layout EU Divider Network PCBs	10	10DEC01*	21DEC01	255	E	0							
6A80001460	DG	-Fab EU Divider Network PCBs	10	02JAN02	15JAN02	275	E	0							
6A80005820	DG	-Resistors for Divider Network Delivered	10	02JAN02*	15JAN02	275	E	0							
6A80005830	DG	-Resistor Chips for Divider Network Delivered	10	02JAN02*	15JAN02	275	E	0							
6A80001470	DG	-Chip Caps for Divider Network Delivered	30	02JAN02*	13FEB02	255	E	0							
6A80006300	DG	-QA Screening Support for HVPS	189	02JAN02*	30SEP02	375	A	0							
6A80005690	DG	-Fab HVPS EU PCB	20	22JAN02	19FEB02	203	E	0							
6A80005840	DG	-Populate (1) EU Divider Network PCB	1	14FEB02	14FEB02	255	E	0							
6A80005850	DG	-Test (1) EU Divider Network PCB	3	15FEB02	20FEB02	255	E	0							
6A80005710	DG	-Assemble & Populate 1 EU HVPS PCB	5	20FEB02	26FEB02	203	E	0							
6A80005860	DG	-Verify Correct Op of Divider Network w/PMTs	10	21FEB02*	06MAR02	255		0							
6A80005720	DG	-Test 1 HVPS EU	20	27FEB02	26MAR02	203	E	0							
6A80005870	DG	-Fab All Flight Unit Divider Network PCBs	20	07MAR02	03APR02	255	E	0							
6A80006680	DG	EU HVPS Functional Testing Complete	0		26MAR02	203		0							
6A80005730	DG	-Test HVPS EU w/PMT	10	27MAR02	09APR02	203	E	0							
6A80005880	DG	-Assemble & Populate All Flight Unit Divider Ntw	125	04APR02	30SEP02	289	A	0							
6A80005890	DG	-Pre-Coat Flight Unit Divider Network Inspection	130	04APR02	07OCT02	284		0							
6A80005900	DG	-Conformal Coat Flight Unit Divider Networks	135	04APR02	14OCT02	279		0							
6A80005910	DG	-Coronal Test & Burn-In Flight Unit Divider Netw	140	04APR02	21OCT02	274	A	0							
6A80005740	DG	-Re-Design HVPS	5	10APR02	16APR02	203	E	0							
6A80005750	DG	-Fab (4) HVPS TU PCBs	20	17APR02	14MAY02	203	E	0							
6A80005760	DG	-Assemble & Populate (4) TU HVPS PCBs	20	15MAY02	12JUN02	203	E	0							
6A80005770	DG	-Test (4) TU HVPS PCBs	20	13JUN02	11JUL02	203	E	0							
6A80006690	DG	TU HVPS PCB Testing Complete	0		11JUL02	203		0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
6A80005780	DG	-Thermal Vac Test of TU HVPS PCBs	8	12JUL02	23JUL02	203	E	0							
6A80001560	DG	-Test Unit HVPS Compatibility Test	5	24JUL02	30JUL02	203	E	0							
6A80005790	DG	-Fab (14) Flight Unit HVPS PCBs	20	31JUL02	27AUG02	232	E	0							
6A80006700	DG	Flight HVPS PCB Fabrication Complete	0		27AUG02	232		0							
6A80005800	DG	-Coupon Test Flight HVPS PCBs	5	28AUG02	04SEP02	232		0							
6A80005810	DG	-Assemble & Populate (14) Flight Unit HVPS PCBs	35	05SEP02	23OCT02	232	E	0							
6A80005920	DG	-Final Flight Unit Divider Network Inspection	10	22OCT02	04NOV02	274		0							
6A80003090	DG	-Test (14) Flight Unit HVPS	50	24OCT02	14JAN03	232	E	0							
6A80003150	DG	Flight HVPS Units Tested	0		14JAN03	232		0							
6A80005940	DG	-Integrate Divider Network into PMT	30	04MAR03	14APR03	205	E	0							
6A80005950	DG	-Test PMT & Divider Network	35	15APR03	03JUN03	205	E	0							
6A80006710	DG	PMT & Divider Network Test Complete	0		03JUN03	210		0							
4.1.6.4.4 ANALOG ASIC DESIGN/PROCUREMENT															
6A80005650	DG	-D-Mill Process (Analog ASIC Only)	86	14JAN00A	12MAY00A			100							
6A80000260	DG	Definition of intended functionality	5	12SEP00A	18SEP00A			100							
6A80000270	DG	Block Diagram	19	19SEP00A	16OCT00A			100							
6A80000280	DG	Design and Schematic capture	19	17OCT00A	13NOV00A			100							
6A80000300	DG	Pre Layout simulations	5	14NOV00A	20NOV00A			100							
6A80000310	DG	Design Layout	36	21NOV00A	12JAN01A			100							
6A80000530	DG	Post Layout Simulations	5	16JAN01A	22JAN01A			100							
6A80000560	DG	Processing of ASIC Data to Toolset	5	23JAN01A	29JAN01A			100							
6A80000600	DG	Submit ASIC to Foundry	1	05FEB01A				100							
6A80000650	DG	Design of ASIC test fixture	14	06FEB01A	26FEB01A			100							
6A80000660	DG	Addition of features	19	06FEB01A	05MAR01A			100							
6A80000980	DG	-Perigran Fab ASICs then 660 Test	192*	14FEB01A	31OCT01A			100							
6A80000750	DG	Fabrication of Test Fixture	15	27FEB01A	19MAR01A			100							
6A80000770	DG	Block diagram	19	06MAR01A	30MAR01A			100							
6A80000860	DG	Pre Layout simulations	5	02APR01A	06APR01A			100							
6A80000910	DG	Design Layout	30	09APR01A	18MAY01A			100							
6A80000990	DG	Change to Agilent Process	0	21MAY01A				100							
6A80002400	DG	-HP - Analog (Foundry Build/Test ASIC)	90*	02JUL01A	06NOV01	116		96							
6A80001010	DG	-Design 1st Gen ASICs (Agilent Process)	20	01OCT01A	26OCT01A		E	100							
6A80002890	DG	-Foundry Build 1st Gen ASICs	53*	26OCT01A	22JAN02	184	E	0							
6A80003260	DG	Design of 1st Run ASIC (Agilent Process) Complet	0		26OCT01A			100							
6A80002530	DG	-Analog ASIC Test	26	07NOV01*	14DEC01	299		0							
6A80006130	DG	-Code 300 Support for Analog ASIC Screening	220*	07NOV01*	30SEP02	299	A	0							
6A80004470	DG	-Quality Assurance Support for Analog ASICs	277*	07NOV01*	20DEC02	299	A	0							
6A80006120	DG	-Contractor Travel in Support of Analog ASIC Dev	277*	07NOV01*	20DEC02	318	A	0							
6A80004460	DG	-Analog ASIC Document Preparation	189	02JAN02	30SEP02	375	A	0							
6A80004450	DG	-Analog ASIC Development Support	247	02JAN02*	23DEC02	317	A	0							
6A80006370	DG	-Expect TEM1 Delivery from SLAC	0	28FEB02*		159		0							
6A80003800	DG	-Test 1st Run Analog ASICs	20	18MAR02	12APR02	147	E	0							
6A80003810	DG	Test of 1st Run Analog ASICs Complete	0		12APR02	147		0							
6A80004080	DG	-Re-Design ASICs	10	15APR02	26APR02	147	E	0							
6A80004400	DG	-Foundry Build 2nd Run ASICs	71	29APR02	07AUG02	147	E	0							
6A80004410	DG	-Test 2nd Run ASICs	20	08AUG02	05SEP02	147	E	0							
6A80004520	DG	Test of 2nd Run ASICs Complete	0		05SEP02	226		0							
6A80004420	DG	-Re-Design ASICs	10	06SEP02	19SEP02	226	E	0							
6A80004430	DG	-Foundry Build 3rd Run ASICs	60	20SEP02	16DEC02	226	E	0							
6A80004440	DG	-Test 3rd Run ASICs	20	17DEC02	23JAN03	226	E	0							
6A80004530	DG	Test of 3rd Run ASICs Complete	0		23JAN03	226		0							
4.1.6.4.5 DIGITAL ASIC DESIGN/PROCUREMENT															
6A80002570	DG	-HP - Digital Test ASIC	53*	17SEP01A	30NOV01	116		62							
6A80004010	DG	-Draft TEM/ACD ICD Support	73*	01OCT01A	23JAN02	105	E	50							
6A80006140	DG	-Digital ASIC Design, Dev Supt, Doc Prep	366*	01OCT01A	31MAR03	256	A	6							
6A80006150	DG	-QA Support for Digital ASICs	342*	01NOV01*	28MAR03	257	A	0							
6A80002790	DG	-Digital Pre-Run Test	9	03DEC01	13DEC01	116		0							
6A80002810	DG	-Design 1st Run Digital ASICs	19	18DEC01	23JAN02	105	E	0							
6A80002920	DG	-Foundry Build 1st Run Digital ASICs	70	24JAN02	02MAY02	105	E	0							
6A80006360	DG	-Expect TEM 2 Delivery from SLAC	0		01APR02*	128		0							
6A80005460	DG	-Test 1st Run Digital ASICs	19	03MAY02	30MAY02	105	E	0							
6A80006730	DG	Test of 1st Run Digital ASICs Complete	0		30MAY02	105		0							
6A80005470	DG	-Re-Design Digital ASICs for 2nd Run	19	31MAY02	26JUN02	105		0							
6A80005480	DG	-Foundry Build 2nd Run Digital ASICs	71	27JUN02	07OCT02	105	E	0							
6A80005490	DG	-Test 2nd Run Digital ASICs	20	08OCT02	04NOV02	105	E	0							
6A80006740	DG	Test of 2nd Run Digital ASICs Complete	0		04NOV02	183		0							
6A80005500	DG	-Re-Deisgn Digital ASICs for 3rd Run	8	05NOV02	14NOV02	183		0							
6A80005510	DG	-Foundry Build 3rd Run Digital ASICs	63	15NOV02	26FEB03	183	E	0							
6A80005520	DG	-Test 3rd Run Digital ASICs	20	27FEB03	26MAR03	183	E	0							
6A80006720	DG	Digital ASIC Design/Supt Doc Prep Complete	0		31MAR03	256		0							
4.1.6.4.6 FRONT-END ELECTRONICS (FEE) CIRCUIT CARD ASSY															
4.1.6.4.6.1 FEE CCA ANALYSIS/DESING															
6A80000780	DG	Determine Requirements for FREE Boards	167*	09MAR01A	01NOV01	174		96							
6A80001450	DG	-(Need) TEM/ACD ICD Approved	0		15OCT01A			100							
6A80001390	DG	-(Need) Level 3 Requirements Approved	0		01NOV01*	293		0							
6A80001400	DG	-(Need) Level 4 Requirements Approved	0		01NOV01*	293		0							
6A80006050	DG	-HVPS I/F Definition	9*	20NOV01*	04DEC01	272		0							
6A80006060	DG	-PMT I/F Definition	9*	20NOV01*	04DEC01	272		0							
6A80006070	DG	-SLAC Define ASIC Pkg	0	03DEC01*		274		0							
6A80006080	DG	-SLAC Define ACD Part No., Pkg, Type	0	03DEC01*		274		0							
6A80006090	DG	-Murphy Define PMT Flight Part	0	03DEC01*		274		0							
6A80006100	DG	-Ruitberg Define HVPS Flight Part	0	03DEC01*		274		0							
6A80006110	DG	-Murphy Define Mechanical Flight Part	0	03DEC01*		274		0							
6A80001380	DG	-Design/Schem Capture FREE Eng Unit PCB	20	27JUN02	25JUL02	136	E	0							
6A90000130	ND	ACD Electronics Module 1 (EM1)	0		01JUL02*	335		0							
6A90000160	ND	EGSE Workstation / Software #2	0		01JUL02*	362		0							
6A80006000	DG	-Layout FREE Eng Unit PCB	20	26JUL02	22AUG02	136	E	0							
6A80006010	DG	-Fabricate FREE Eng Unit PCB	20	23AUG02	20SEP02	136	E	0							
6A80006030	DG	-Delivery BFA	0	13SEP02*		284		0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
6A80006760	DG	Fab of FREE EU PCB Complete	0		20SEP02	136		0							
6A80001340	DG	(Need) TEM 3-5 Delivery from SLAC	0		16OCT02*	0		0							
6A80006020	DG	-Assemble & Populate FREE Eng Unit PCB	5	05NOV02	11NOV02	105	E	0							
6A80001060	DG	-Re-Design FREE Eng Unit PCB for Test Units	5	12NOV02	18NOV02	105	E	0							
6A80001080	DG	-Update FREE Test Unit PCB Layout	5	19NOV02	27NOV02	105	E	0							
6A80001100	DG	-Fabricate (4) FREE Test Unit PCBs	15	28NOV02	18DEC02	105	E	0							
6A80001820	DG	Fab of FREE TU PCBs Complete	0		18DEC02	105		0							
6A80001110	DG	-Assemble & Populate (4) FREE Test Unit PCBs	20	19DEC02	27JAN03	105	E	0							
6A80006350	DG	-TEM 3-5 Expected Delivery	0	06JAN03*		120		0							
6A80006040	DG	-Test FREE Eng Unit (Define)	15	06JAN03	27JAN03	212	E	0							
6A80001310	DG	-Test (4) FREE Test Unit PCBs	20	28JAN03	25FEB03	105	E	0							
6A80001830	DG	FREE TU PWA Testing Complete	0		25FEB03	164		0							
4.1.6.4.6.5 FEE CCA FLIGHT PROC/FAB/ASSY/TEST															
6A80004510	DG	-Fabricate (14) FREE Flight Unit PCBs	30	26FEB03	08APR03	164	E	0							
6A80006330	DG	-Quality Assurance Support for FREE PCB	115	26FEB03	07AUG03	164	A	0							
6A80006340	DG	-Professional Admin Support for FREE	115	26FEB03	07AUG03	164	A	0							
6A90000140		ND: (2) ACD Electronics Modules (EM2)	0		03MAR03*	200		0							
6A90000170		ND: EGSE Workstation / Software #3	0		03MAR03*	200		0							
6A80004540	DG	Fab of FREE FU PCBs Complete	0		08APR03	174		0							
6A80004480	DG	-Assemble & Populate (14) FREE Flight Unit PCBs	75	09APR03	24JUL03	174	E	0							
6A80004490	DG	-Test (14) FREE Flight Unit PCBs	75	09APR03	24JUL03	174	E	0							
6A80004550	DG	FREE FU PWA Testing Complete	0		24JUL03	617		0							
6A80004500	DG	-Support Integration & Test FREE Flight Unit PCB	1	08AUG03	08AUG03	164		0							
4.1.6.4.9 BEA ELECTRONICS MOUNTING/ASSEMBLY/HW															
6A80002820	DG	\$BEA Assy H/W - FY02	224*	01NOV01*	30SEP02	128	A	0							
6A80002840	DG	\$BEA Assy H/W - FY03	247	01OCT02	30SEP03	128	A	0							
4.1.6.4.C CAL UNIT BEA I&T															
6A80006780	DG	Cal Unit BEA Planning Pkg Complete	0		01OCT01A			100							
6A80006550	DG	DAQ I/F Test Unit BEA Planning Package	255*	01NOV01*	12NOV02	256	A	0							
6A80006560	DG	Cal Unit BEA Planning Package	327*	01NOV01*	07MAR03	97	A	0							
6A80006770	DG	DAQ I/F Test Unit BEA Planning Pkg Complete	0		12NOV02	256		0							
6A80003410	DG	DAQ I/F Test Unit BEA Equivalent Assembly & Test	5	28JAN03*	03FEB03	212		0							
6A80003040	DG	Last H/W Available for Cal Unit BEA Equivalent	0	10MAR03		97		0							
6A80002860	DG	Cal Unit BEA Equivalent Assembly	5	10MAR03	14MAR03	97		0							
6A80003540	DG	Cal Unit BEA Equivalent Integration & Test	15	17MAR03	04APR03	97		0							
4.1.6.4.D FLIGHT MODEL BEA I&T															
6A80003830	DG	\$Flight BEA I&T - FY02	224*	01NOV01*	30SEP02	863	A	0							
6A80003740	DG	Flight BEA Delivery	1	02OCT03	02OCT03	614		0							
4.1.6.4.E															
6A80001030	DG	Prepare Procurement Package	49*	01JUN01A	09AUG01A			100							
6A80002180	DG	Issue Procurement Synopsis for PMTs	1	13AUG01A	13AUG01A			100							
6A80002630	DG	Issue RFP for PMTs	1	05SEP01A	05SEP01A			100							
6A80002640	DG	Vendors Respond to RFP for PMTs	21*	06SEP01A	04OCT01A			100							
6A80002720	DG	Vendor Selection and PMT Contract Award	21*	05OCT01A	02NOV01	201		91							
6A80002830	DG	Vendor Fabricate/Test PMTs	320	05NOV01	28FEB03	201		0							
6A80006240	DG	-Receive (40) COTS PMTs	1	03JUN02	03JUN02	243	E	0							
6A80003010	DG	Receive (40) COTS TU PMTs	0	03JUN02*		214		0							
6A80006790	DG	Receive COTS PMTs @ GSFC	0		03JUN02	243		0							
6A80006250	DG	-Receive (220) Flight PMTs	1	03MAR03	03MAR03	205	E	0							
6A80006260	DG	-Receive (10) COTS PMTs	1	03MAR03	03MAR03	231	E	0							
6A80003520	DG	Receive (220) Flight PMTs & (10) Qual PMTs	0	03MAR03*		201		0							
6A80006800	DG	Receive Flight PMTs @ GSFC	0		03MAR03	205		0							
6A80005930	DG	-Qualify TU PMTs	45	04MAR03	05MAY03	231		0							
4.1.6.5 MICROMETEOROID SHIELD/THERMAL BLANKET ASSY (TBA)															
4.1.6.5.1 MICROMETEOROID SHIELD/TBA FULL SCALE EM (QUAL)															
4.1.6.5.1.1 MICROMETEOROID SHIELD/TBA ANALYSIS/DESIGN															
6A80000320	DG	*Design Requirements and Specifications	57	01DEC00A	23FEB01A		E	100							
6A80000760	DG	*Shield Material Selection and Testing	247*	01MAR01A	28SEP01A		A	100							
6A80000810	DG	*Micrometeorite Shield Design	311*	15MAR01A	28SEP01A		A	100							
6A80006490	DG	**Complete Shield Material Selection & Testing	98*	01OCT01A	28FEB02	83	A	21							
6A80006500	DG	**Complete Micrometeoroid Shield Design	172*	01OCT01A	13JUN02	9	A	13							
6A80002590	DG	*Blanket Material Selection	84	01MAR02	27JUN02*	94	E	0							
6A80002650	DG	Micrometeoroid Shield Design Complete	0		13JUN02	152		0							
6A80002620	DG	*Incorporate Thermal Blanket with Micrometeorite	93	14JUN02	24OCT02*	152	A	0							
6A80003230	DG	*Shield/Blanket Fabrication Procedure	5	25OCT02*	31OCT02	152	E	0							
6A80003300	DG	*Shield/TBA Test Unit Fabrication	10	01NOV02	14NOV02	92	E	0							
6A80005330	DG	*Shield/TBA Test Unit Acceptance Testing	71	15NOV02	10MAR03	92	E	0							
6A80003590	DG	*Shield/Blanket Installation Drawing	5	07FEB03*	13FEB03	92	E	0							
4.1.6.5.1.4 MICROMETEOROID SHIELD/TBA CAL UNIT															
6A80003570	DG	*Fabricate Calibration Unit Shield/TBA	19	11MAR03	04APR03	92	E	0							
6A80003700	DG	*Deliver Calibration Unit Shield/TBA	1	07APR03	07APR03	136	E	0							
6A80003720	DG	Cal Unit Shield/TBA Available for I&T	0		07APR03	136		0							
4.1.6.5.1.5 MICROMETEOROID SHIELD/TBA FLIGHT UNIT															
6A80002970	DG	*Shield Material Procurement	172	01MAR02	31OCT02	92	A	0							
6A80002980	DG	*Blanket Material Procurement	86	28JUN02*	29OCT02	94	A	0							
6A80003270	DG	Flight Shield Material Procurement Complete	0		31OCT02	92		0							
6A80003710	DG	*Fabricate Flight Shield/TBA Unit	40	07APR03	02JUN03	92	E	0							
6A80005340	DG	*Inspect Flight Shield/TBA Unit	1	03JUN03	03JUN03	92	E	0							
6A80005350	DG	*Deliver Flight Shield/TBA Unit	1	04JUN03	04JUN03	92	E	0							
6A80006810	DG	Flight Shield/TBA Available for I&T	0		04JUN03	92		0							
4.1.6.7 HARDWARE/SOFTWARE INTEGRATION & TEST															
4.1.6.7.3 FULL SCALE EM (QUAL) HW/SW I&T															
6A80004710		Qual Readiness Review-ACD	0		31OCT01	283		0							
6A80004720		Qual Review-ACD	0		31OCT01	343		0							
6A80003940	DG	\$DAQ I/F Test Unit ACD I&T	61	02JAN03*	31MAR03	256	A	0							
6A80003290	DG	DAQ I/F Test Unit ACD Equivalent Assembly & Test	20	04FEB03*	04MAR03	212		0							
6A80003340	DG	DAQ I/F Test Unit I&T Complete	0		31MAR03	256		0							
4.1.6.7.4 CALIBRATION MODEL HW/SW I&T															
6A80003950	DG	\$CAL Unit I&T - FY02 (Q4)	64	01JUL02*	30SEP02	141	A	0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01 FY02 FY03 FY04 FY05 FY06 FY07							
6A80003960	DG	\$CAL Unit I&T - FY03 (Q1)	58	01OCT02	23DEC02	141	A	0								
6A80003980	DG	\$CAL Unit I&T - FY03 (Q2)	61	02JAN03	31MAR03	141	A	0								
6A90000020		AV: Doc'n re: Backsplash Test Model/ACD Cal Unit	0		03JAN03*	0		0								
6A80003870	DG	Cal Unit ACD Equivalent Assembly & Test	40	10APR03	05JUN03	94		0								
6A80004020	DG	Cal Unit ACD Equivalent Ready for Ship	0	06JUN03		94		0								
4.1.6.7.5 FLIGHT MODEL HW/SW I&T																
6A80004960	DG	\$1Thermal Vac Harness Design & Fab	132	06JAN03*	14JUL03	141	A	0								
6A80003660	DG	\$1Flight TSA Integration & Test	41	27JUN03*	25AUG03	35	E	0								
6A80006820	DG	TVAC Harness Design & Fab Complete	0		14JUL03	141		0								
6A80003680	DG	\$1Flight BEA Integration & Testing	45	30JUL03	01OCT03	614	E	0								
6A80006830	DG	Flight TSA I&T Complete	0		25AUG03	35		0								
6A80004900	DG	\$1Flight ACD Integration & Test	55	26AUG03	11NOV03	35	E	0								
6A80003750	DG	Flight BEA I&T Complete	0		01OCT03	614		0								
6A80006840	DG	Flight ACD I&T Complete	0		11NOV03	35		0								
6A80004910	DG	\$1ACD EMI/EMC Test	8	12NOV03	21NOV03	35	E	0								
6A80004920	DG	\$1ACD Acoustic/Vibration Tests	13	24NOV03	12DEC03	35	E	0								
6A80006850	DG	Flight ACD TB/TVAC Tests Complete	0		12DEC03	70		0								
6A80004930	DG	\$1ACD Thermal Balance/Thermal Vacuum Tests	35	15DEC03	11FEB04	35	E	0								
6A80004940	DG	\$1ACD Mass Properties	1	12FEB04	12FEB04	35	E	0								
6A80004950	DG	\$1ACD Final Check	6	13FEB04	23FEB04	35		0								
4.1.6.8 LAT INSTRUMENT INTEGRATION & TEST (I&T)																
6A80004050	DG	\$LAT I&T - FY03 (Q4)	64	01JUL03*	30SEP03	0	A	0								
6A80004060	DG	\$LAT I&T - FY04 (Q1)	58	01OCT03	23DEC03	0	A	0								
6A80004090	DG	\$LAT I&T - FY04 (Q2)	62	02JAN04	31MAR04	0	A	0								
6A80004100	DG	\$LAT I&T - FY04 (Q3)	64	01APR04	30JUN04	0	A	0								
6A80004110	DG	\$LAT I&T - FY04 (Q4)	64	01JUL04	30SEP04	0	A	0								
6A80004120	DG	\$LAT I&T - FY05 (Q1)	58	01OCT04	23DEC04	128	A	0								
6A80004130	DG	\$LAT I&T - FY05 (Q2)	62	03JAN05	31MAR05	128	A	0								
4.1.6.8.3 CAL UNIT I&T w/LAT (SUPPORT)																
6A80003400	DG	Delivery of DAQ I/F Unit	0		05MAR03	212		0								
6A80003430	DG	Support DAQ I/F Testing	550	06MAR03	20MAY05	212		0								
6A90000030		AV: Calibration Test Unit at SLAC, Tested & RFI	0		03NOV03*	0		0								
4.1.6.8.4 FLIGHT UNIT I&T w/LAT (SUPPORT)																
6A90000050		AV: ACD Flight Unit at SLAC, Tested/Insp & RFI	0		26APR04*	0		0								
6A80004240	DG	Flight ACD Support	210	27APR04*	03MAR05	0		0								
4.1.6.9 MISSION INTEGRATION & TEST SUPPORT																
6A80004340	DG	\$S/C I&T - FY05 (Q3)	64	01APR05*	30JUN05	0	A	0								
6A80004350	DG	\$S/C I&T - FY05 (Q4)	64	01JUL05	30SEP05	0	A	0								
6A80004370	DG	\$S/C I&T - FY06 (Q1)	58	03OCT05	23DEC05	62	A	0								
4.1.6.9.1 LAT FLIGHT UNIT I&T w/SPACECRAFT (SUPPORT)																
6A80004330	DG	Spacecraft I&T Support (LAT RFI to S/C)	187	31MAR05*	23DEC05	62		0								
6A80004360	DG	(L-90d) Ship Spacecraft to Launch Site	0	03JAN06*		62		0								
4.1.6.B GROUND SUPPORT FACILITIES & EQUIPMENT																
4.1.6.B.2 MECHANICAL GROUND SUPPORT EQUIPMENT																
6A80000930	DG	*ACD MGSE Requirements & Specifications	30*	28SEP01A	08NOV01	179	E	50								
6A90000100		ND: MGSE Requirements from I & T	0		22MAR02*	94		0								
6A90000110		ND: SLAC Facilities Specification	0		22MAR02*	94		0								
6A80005360	DG	*TDA Mass Simulators	30	03JUN02*	15JUL02	214	E	0								
6A80005370	DG	*Event Board Mass Simulators	30	03JUN02*	15JUL02	214	E	0								
6A80005400	DG	*Requirements Definition	30	03JUN02*	15JUL02	69	E	0								
6A80005380	DG	*Shield/Blanket Mass Simulator	30	08JUL02*	16AUG02	210	E	0								
6A80005410	DG	*Design and Analysis	80	09JUL02	29OCT02	69	E	0								
6A80005420	DG	*Fabrication	69	30OCT02	18FEB03	69	E	0								
6A80005430	DG	*Delivery	1	19FEB03	19FEB03	69	E	0								
6A80006860	DG	Shield/Blanket Mass Sim Delivered to GSFC	0		19FEB03	69		0								
6A80005440	DG	*Vibration Testing	10	20FEB03	05MAR03	69	E	0								
6A80005450	DG	*Thermal Hardware Installation	10	06MAR03	19MAR03	69	E	0								
6A80005390	DG	*ACD Mass Simulator	45	29SEP03*	02DEC03	66	E	0								
4.1.6.B.2.1 ACD TURNOVER/ASSEMBLY DOLLY																
6A80000680	DG	*Requirements Definition	158*	15FEB01A	28SEP01A		A	100								
6A80006510	DG	**Complete Requirements Definition	1	03DEC01*	03DEC01	221	E	0								
6A80001920	DG	*Design and Analysis	54	04DEC01	28FEB02	221	E	0								
6A80002740	DG	*Fabrication	82	18MAR02*	11JUL02	210	E	0								
6A80002930	DG	*Delivery	1	12JUL02*	12JUL02	210	E	0								
6A80003280	DG	ACD Turnover Assy/Dolly Delivered to GSFC	0		12JUL02	210		0								
6A80003070	DG	*Functional and Proof Testing	5	15JUL02	19JUL02*	210	E	0								
4.1.6.B.2.2 SHELL HANDLING ASSEMBLY																
6A80000690	DG	*Requirements Definition	158*	15FEB01A	28SEP01A		A	100								
6A80006520	DG	**Complete Requirements Definition	1	01OCT01A	01OCT01A		E	100								
6A80002230	DG	*Design and Analysis	41*	02OCT01A	29NOV01	289	E	50								
6A80002850	DG	*Fabrication	65	15MAY02	15AUG02*	180	E	0								
6A80003050	DG	*Delivery	1	16AUG02	16AUG02	180	E	0								
6A80003440	DG	Shell Handling Assy Delivered to GSFC	0		16AUG02	180		0								
6A80003140	DG	*Functional and Proof Testing	10	19AUG02	30AUG02	180	E	0								
4.1.6.B.2.3 TDA HANDLING CASES																
6A80002350	DG	*Design Specification	20	01NOV01	30NOV01*	302	E	0								
6A80002440	DG	*Fabrication	20	03DEC01	08JAN02*	302	E	0								
6A80003180	DG	*Delivery	1	31MAY02*	31MAY02	203	E	0								
4.1.6.B.2.4 BASE FRAME HANDLING ASSEMBLY																
6A80000700	DG	*Requirements Definition	158*	15FEB01A	28SEP01A		A	100								
6A80006530	DG	**Complete Requirements Definition	1	01OCT01A	01OCT01A		E	100								
6A80002370	DG	*Design and Analysis	60*	29OCT01A	01FEB02	241	E	50								
6A80002900	DG	*Flight Fabrication	79	11APR02	01AUG02*	194	E	0								
6A80003120	DG	*Flight Delivery	1	02AUG02*	02AUG02	194	E	0								
6A80003190	DG	*Flight Functional and Proof Testing	5	05AUG02	09AUG02	194	E	0								
6A80003160	DG	Flight Base Frame Handling Dolly Availabl	0	12AUG02*		410		0								
4.1.6.B.2.5 GRID INTERFACE TEMPLATE																
6A80003200	DG	*Design	5	03SEP02*	09SEP02	93	E	0								
6A80003500	DG	*Fabrication	5	10SEP02	16SEP02	93	E	0								

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year									
									FY01	FY02	FY03	FY04	FY05	FY06	FY07			
4.1.6.B.2.6 ACD SHIPPING CONTAINER w/NITROGEN PURGE																		
6A80002420	DG	*Transportation Specification Document	16	03DEC01	02JAN02*	353	E	0										
6A80002510	DG	*Shipping Container Selection	24	03JAN02*	06FEB02	353	E	0										
6A80002690	DG	*Shipping Container Interface Design and Analysis	83	04MAR02*	27JUN02	337	E	0										
6A80003020	DG	*Interface Fabrication	63	01JUL02	27SEP02*	336	E	0										
6A80003220	DG	*Interface Delivery	1	30SEP02*	30SEP02	336	E	0										
6A80003240	DG	*Shipping Container Integration	20	02OCT02	29OCT02*	335	E	0										
6A80003330	DG	*Shipping Container Testing	19	03DEC03	07JAN04*	66	E	0										
6A80003450	DG	ACD Shipping Container Testing Complete	0		07JAN04	66		0										
4.1.6.B.2.7 ACD LIFTING SLINGS																		
6A80000710	DG	*Requirements Definition	158*	15FEB01A	28SEP01A		A	100										
6A80006540	DG	**Complete Requirements Definition	1	01OCT01A	01OCT01A		E	100										
6A80002600	DG	*Design and Analysis	62	02JAN02	01APR02*	238	E	0										
6A80002960	DG	*Flight Fabrication	43	03JUN02*	01AUG02	195	E	0										
6A80003130	DG	*Delivery of Flight Lifting Slings	1	02AUG02	02AUG02*	195	E	0										
6A80003170	DG	*Initial Proof Testing and NDE	5	12AUG02*	16AUG02	190	E	0										
6A80003990	DG	Initial Proof Test of ACD Lifting Slings Complete	0		16AUG02	400		0										
6A80003970	DG	*Annual Proof Testing and NDE	5	11AUG03*	15AUG03	159	E	0										
4.1.6.B.3 ELECTRICAL GROUND SUPPORT EQUIPMENT																		
4.1.6.B.3.1 ACD DATA ACQUISITION SYSTEM/UMBILICAL CABLES																		
6A80006230	DG	~Quality Assurance for Test Cables	282*	01NOV01*	23DEC02	317	A	0										
6A80001990	DG	~Fabricate FREE Test Cables	15	25SEP02	15OCT02	364	E	0										
6A80002000	DG	FREE Test Cable Fab Complete	0		15OCT02	364		0										
4.1.6.B.3.2 ANALOG ASIC TEST STATION																		
6A80005530	DG	~Design Analog ASIC TS	20	01NOV01*	30NOV01	377	E	0										
6A80006170	DG	~Procure Analog ASIC Test Station Parts - Electr	35	01NOV01	21DEC01	458	E	0										
6A80006180	DG	~Procure Materials & Equip - PCBs for Analog TS	70	01NOV01	21FEB02	423	E	0										
6A80006190	DG	~Procure ADP, LabView S/W, Cmptr, Cards, Cables	70	01NOV01	21FEB02	423	E	0										
6A80005540	DG	~Layout Analog ASIC TS	10	03DEC01	14DEC01	403	E	0										
6A80005550	DG	~Fabricate Analog ASIC TS	20	17DEC01	23JAN02	403	E	0										
6A80006160	DG	~Support Analog ASIC Test Set	126	03JAN02*	02JUL02	341	A	0										
6A80005560	DG	~Populate Analog ASIC TS	10	24JAN02	06FEB02	403	E	0										
6A80005570	DG	~Write LabView Analog ASIC TS	30	07FEB02	21MAR02	403		0										
6A80005580	DG	~Test Analog ASIC TS	10	22MAR02	04APR02	403	E	0										
6A80006870	DG	Analog ASIC TS Testing Complete	0		04APR02	403		0										
4.1.6.B.3.3 DIGITAL ASIC TEST STATION																		
6A80005590	DG	~Design Digital ASIC TS	20	01NOV01	30NOV01	403	E	0										
6A80006200	DG	~Procure Digital ASIC TS Parts - Electr, FPGA,	35	01NOV01	21DEC01	458	E	0										
6A80006220	DG	~Procure ADP - Cmptr, I/F Card, PCBs for Dig TS	35	01NOV01	21DEC01	458	E	0										
6A80005600	DG	~Layout Digital ASIC TS	10	03DEC01	14DEC01	403	E	0										
6A80005610	DG	~Fabricate Digital ASIC TS	20	17DEC01	23JAN02	403	E	0										
6A80006210	DG	~Procure Mats & Equip, PCBs for Digital ASIC TS	35	02JAN02*	21FEB02	423	E	0										
6A80005620	DG	~Populate Digital ASIC TS	10	24JAN02	06FEB02	403	E	0										
6A80005630	DG	~Write LabView Digital ASIC TS	30	07FEB02	21MAR02	403		0										
6A80005640	DG	~Test Digital ASIC TS	10	22MAR02	04APR02	403	E	0										
6A80006880	DG	Digital ASIC TS Testing Complete	0		04APR02	403		0										
4.1.6.B.3.4 FRONT END ELECTRONICS (FEE) CIRCUIT CARD ASSY																		
6A80004690	DG	\$FREE CCA Test Station - FY02	224*	01NOV01*	30SEP02	241	A	0										
6A80001810	DG	Purchase Needed Bench Test Equipment for FREE	20	01JUL02*	29JUL02	263		0										
6A80002470	DG	Procure Bench Space, Power Supplies, and Test E	20	30JUL02	26AUG02	263		0										
6A80001840	DG	Develop and Req'd FREE Board Level GSE	40	30JUL02	24SEP02	303		0										
6A80002550	DG	Generate Requirements & Specs for non-COTS S/W	20	27AUG02	24SEP02	263		0										
6A80002610	DG	Secure S/W Support to provide Req'd S/W for FRE	40	25SEP02	19NOV02	263		0										
6A80004700	DG	\$FREE CCA Test Station - FY03 (Q1)	58	01OCT02	23DEC02	241	A	0										

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
4.1.7 ELECTRONICS															
7ENRLECTS	DN	NRL Actuals Pre Aug 01	1,709	03APR00A	31JUL01A		C	100	█	█	█	█	█	█	█
7E1H000030		Elec & Data Acquis (E&DAQ) Requirements Review	0		25APR01A			100	█	█	█	█	█	█	█
7E1H000040		Flight Software Requirements Review	0		30MAY01A			100	█	█	█	█	█	█	█
7E1H000070		E&DAQ PDR	0		16AUG01A			100	█	█	█	█	█	█	█
7E1H000080		Flight Software PDR	0		16AUG01A			100	█	█	█	█	█	█	█
7E1H000090		LAT Instrument PDR	0		07JAN02	0	0	0	█	█	█	█	█	█	█
7E1H000120		Flight Software CDR	0		12JUN02	0	0	0	█	█	█	█	█	█	█
7E1H000110		E&DAQ CDR	0		20JUN02	0	0	0	█	█	█	█	█	█	█
7E1H000130		LAT Instrument CDR	0		05AUG02	0	0	0	█	█	█	█	█	█	█
7E1H000160		Assemble/Test Qual Unit Complete	0		13FEB04	528	0	0	◊	◊	◊	◊	◊	◊	◊
7E1H000170		Assemble/Test Last Flight Unit Complete	0		13MAY04	465	0	0	◊	◊	◊	◊	◊	◊	◊
4.1.7.1 ELECTRONICS MANAGEMENT															
7E20000020	DL	Management	1,132	01NOV00A	28SEP01A		A	100	█	█	█	█	█	█	█
7E20000030	DL	Simulation & Science Support	1,132	01NOV00A	28SEP01A		A	100	█	█	█	█	█	█	█
7E20000040	DL	Meetings & Reviews	1,132	01NOV00A	28SEP01A		A	100	█	█	█	█	█	█	█
7E20000050	DL	Requirements & Interface Control	1,096	02JAN01A	28SEP01A		A	100	█	█	█	█	█	█	█
7E1H0000T7	DH	Travel FY01	1,117	01FEB01A	28FEB01A		A	100	█	█	█	█	█	█	█
7E1H000H60	DH	Project Support FY01	1,117	01FEB01A	28FEB01A		A	100	█	█	█	█	█	█	█
7E1N000030	DN	Requirements & Interface Control	1,075	01FEB01A	03JUN05	183	A	17	█	█	█	█	█	█	█
7E1N000040	DN	Electrical Integration Systems Engineering	1,075	01FEB01A	03JUN05	183	A	17	█	█	█	█	█	█	█
7E1H000000	DH	Management - FY 01	127	02APR01A	28SEP01A		A	100	█	█	█	█	█	█	█
7E1H000010	DH	Simulation & Science Support - FY 01	127	02APR01A	28SEP01A		A	100	█	█	█	█	█	█	█
7E1H000020	DH	Meetings & Reviews - FY 01	127	02APR01A	28SEP01A		A	100	█	█	█	█	█	█	█
7E1H000060	DH	Project Support FY01	1,117	02APR01A	28SEP01A		A	100	█	█	█	█	█	█	█
7E1H000050	DH	Travel	1,117	02APR01A	30SEP05	100	A	13	█	█	█	█	█	█	█
7E1N000000	DN	Management	1,117	02APR01A	30SEP05	100	A	13	█	█	█	█	█	█	█
7E1N000010	DN	Simulation & Science Support	1,117	02APR01A	30SEP05	100	A	13	█	█	█	█	█	█	█
7E1N000020	DN	Meetings & Reviews	1,117	02APR01A	30SEP05	100	A	13	█	█	█	█	█	█	█
7E20000070	DL	Travel	1,112	02JUL01A	28SEP01A		A	100	█	█	█	█	█	█	█
7E20000080	DL	Project Support	907	01OCT01A	03JUN05	183	A	2	█	█	█	█	█	█	█
7EN1000000	DL	Management	907	01OCT01A	03JUN05	183	A	2	█	█	█	█	█	█	█
7EN1000010	DL	Simulation & Science Support	907	01OCT01A	03JUN05	183	A	2	█	█	█	█	█	█	█
7EN1000020	DL	Meetings & Reviews	907	01OCT01A	03JUN05	183	A	2	█	█	█	█	█	█	█
7EN1000030	DL	Requirements & Interface Control	907	01OCT01A	03JUN05	183	A	2	█	█	█	█	█	█	█
7E1N000050	DN	Travel	910	01OCT01A	08JUN05	180	A	2	█	█	█	█	█	█	█
7E1H000065	DH	Project Support FY02-05	980	01OCT01A	16SEP05	130	A	2	█	█	█	█	█	█	█
7EN1000040	DL	Travel	1,049	01OCT01A	03JAN06	41	A	2	█	█	█	█	█	█	█
7E20000060	DL	Electrical Integration, EMI Systems Engineering	660	01OCT02*	03JUN05	183	A	0	█	█	█	█	█	█	█
4.1.7.2 RELIABILITY & QUALITY ASSURANCE															
7E20000100	DL	Reliability	1,034	02APR01A	28SEP01A		A	100	█	█	█	█	█	█	█
7E20000110	DL	EEE Parts Identification & Usage	1,034	02APR01A	28SEP01A		A	100	█	█	█	█	█	█	█
7E20000120	DL	S/W Performance Assurance	1,034	02APR01A	28SEP01A		A	100	█	█	█	█	█	█	█
7E20000130	DL	Materials Identification & Usage	1,034	02APR01A	28SEP01A		A	100	█	█	█	█	█	█	█
7E20000140	DL	Quality Assurance	1,034	02APR01A	28SEP01A		A	100	█	█	█	█	█	█	█
7EN2000000	DL	Reliability	1,034	01OCT01A	03JUN05	163	A	2	█	█	█	█	█	█	█
7EN2000010	DL	EEE Parts Identification & Usage	1,034	01OCT01A	03JUN05	163	A	2	█	█	█	█	█	█	█
7EN2000020	DL	S/W Performance Assurance	1,034	01OCT01A	03JUN05	163	A	2	█	█	█	█	█	█	█
7EN2000030	DL	Materials Identification & Usage	1,034	01OCT01A	03JUN05	163	A	2	█	█	█	█	█	█	█
7EN2000040	DL	Quality Assurance	1,034	01OCT01A	03JUN05	163	A	2	█	█	█	█	█	█	█
4.1.7.3 ELECTRONICS SYSTEM DESIGN															
4.1.7.3.1 OVERALL SYSTEM DESIGN															
7E20000200	DH	Preliminary System Design Studies	127	03APR00A	29SEP00A		A	100	█	█	█	█	█	█	█
7E20000205	DH	Preliminary System Design Studies	247	02OCT00A	30MAR01A		A	100	█	█	█	█	█	█	█
7E20000160	DL	Derive Requirements	120	01NOV00A	02JUL01A		E	100	█	█	█	█	█	█	█
7E20000170	DL	Design Conceptual Architecture	160	23JAN01A	07SEP01A		E	100	█	█	█	█	█	█	█
7E20000180	DL	Produce high-level sub-system architecture	80	02APR01A	24JUL01A		E	100	█	█	█	█	█	█	█
7E20000190	DL	Produce Interface Documents	60	02JUL01A	25SEP01A		E	100	█	█	█	█	█	█	█
4.1.7.3.2 ASIC EVALUATION															
4.1.7.3.2.1 TECHNOLOGY EVALUATION															
7E32100000	DL	Design Test Chip 1	10	02AUG01A	15AUG01A		E	100	█	█	█	█	█	█	█
7E32100010	DL	Fab Test Chip 1	60	16AUG01A	24OCT01A		E	100	█	█	█	█	█	█	█
7E32100020	DL	Test Test Chip 1	20	25OCT01A	21NOV01	208	E	50	█	█	█	█	█	█	█
7E32100030	DL	Design Test Chip 2	10	26NOV01	07DEC01	208	E	0	█	█	█	█	█	█	█
7E32100040	DL	Fab Test Chip 2	60	10DEC01	14MAR02	208	E	0	█	█	█	█	█	█	█
7E32100050	DL	Test Test Chip 2	20	15MAR02	11APR02	208	E	0	█	█	█	█	█	█	█
7E32100070	DL	Latchup Test M&S	5	12APR02	18APR02	213	E	0	█	█	█	█	█	█	█
7E32100060	DL	Latchup Test Labor	10	12APR02	25APR02	208	E	0	█	█	█	█	█	█	█
4.1.7.4 DATAFLOW ELECTRONICS (TEMs + PROCESSOR FARM)															
7E20000220		Major Review Requir./Conceptual Design	0		01NOV01*	1,086		0	◊	◊	◊	◊	◊	◊	◊
7E20000230		Major Review Preliminary Design	0		02AUG02*	31		0	◊	◊	◊	◊	◊	◊	◊
7E20000240		Major Review Final Design	0		16JAN03	46		0	◊	◊	◊	◊	◊	◊	◊
7E20000250		Major Review Flight Readiness	0		03DEC03	482		0	◊	◊	◊	◊	◊	◊	◊
4.1.7.4.1 DESIGN REQUISITES															
7E20000290	DL	Design Training	600	30MAR01A	28SEP01A		A	100	█	█	█	█	█	█	█
7E20000260	DL	Derive Requirements	152	30MAR01A	01NOV01	1,086	E	99	█	█	█	█	█	█	█
7E20000270	DL	Studies and Simulation	152	30MAR01A	01NOV01	215	E	99	█	█	█	█	█	█	█
7E20000280	DL	Design Concept of Dataflow System	152	30MAR01A	01NOV01	1,086	E	99	█	█	█	█	█	█	█
7E41M00000	DH	Data Flow System Design	80	01MAY01A	28SEP01A		E	100	█	█	█	█	█	█	█
7E41H00000	DH	Data Flow System Design	247	01OCT01A	30SEP02	47	A	9	█	█	█	█	█	█	█
7EN1000290	DL	Design Training	472	01OCT01A	28AUG03	177	A	4	█	█	█	█	█	█	█
7E41000000	DL	Design Tools	900	01OCT01A	24MAY05	210	A	2	█	█	█	█	█	█	█
4.1.7.4.2 FRONT END SIMULATOR															
4.1.7.4.2.1 DESIGN															
7E20000320	DH	Produce Requirement Document	9	04SEP01A	01OCT01A		E	100	█	█	█	█	█	█	█
7E20000330	DH	Produce Conc. Design & Interface Document	2	02OCT01A	03OCT01A		E	100	█	█	█	█	█	█	█
7E20000340	DH	Produce Conceptual Design	2	04OCT01A	05OCT01A		E	100	█	█	█	█	█	█	█
7E20000350	DH	Review Conceptual Design	1	08OCT01A	08OCT01A		E	100	█	█	█	█	█	█	█
7E20000360	DH	Produce Preliminary Design	120	09OCT01A	09APR02	119	E	50	█	█	█	█	█	█	█

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
7E20000370	DH	Simulate Design - Phase 1	12	10APR02	25APR02	119	E	0			△ Simulate Design - Phase 1				
7E90000000	DH	Simulate Design - Phase 2	18	26APR02	21MAY02	119	E	0			△ Simulate Design - Phase 2				
7E20000380	DH	Review preliminary design	1	22MAY02	22MAY02	119	E	0			△ Review preliminary design				
4.1.7.4.2.2 FAB, ASSEM & TEST															
7E20000390	DL	Layout	15	23MAY02	13JUN02	416	E	0			△ Layout				
7E20000400	DL	Procure Parts (2)	15	23MAY02	13JUN02	429	E	0			△ Procure Parts (2)				
7E20000410	DL	Assemble Test-setup	5	14JUN02	20JUN02	429	E	0			△ Assemble Test-setup				
7E42200000	DL	Fabricate (2)	15	14JUN02	05JUL02	416	E	0			△ Fabricate (2)				
7E42200010	DL	Assemble (2)	3	08JUL02	10JUL02	416	E	0			△ Assemble (2)				
7E20000420	DH	Stand-Alone Test	5	11JUL02	17JUL02	416	E	0			△ Stand-Alone Test				
7E20000440	DL	PR for Procure Parts (10)	1	18JUL02	18JUL02	685	E	0			△ PR for Procure Parts (10)				
7E422C0000	DL	Receive Procure Parts (10)	1	21AUG02	21AUG02	685	E	0			△ Receive Procure Parts (10)				
7E20000430	DH	Test	20	02OCT02	29OCT02	363	E	0			△ Test				
7E42200020	DL	Fabricate (10)	25	30OCT02	05DEC02	363	E	0			△ Fabricate (10)				
7E42200030	DL	Assemble (10)	10	06DEC02	19DEC02	363	E	0			△ Assemble (10)				
7E20000450	DH	Test (10)	5	20DEC02	06JAN03	602	E	0			△ Test (10)				
7E422A0000	DH	Test Support FY03	244	20DEC02	16DEC03	363	E	0			△ Test Support FY03				
7E42200040		IA: TEM Simulator	0		06JAN03	602		0			◇ IA: TEM Simulator				
4.1.7.4.3 TKR/CAL TEM ELECTRONICS															
4.1.7.4.3.1 PRE ENGINEERING MODEL															
4.1.7.4.3.1.1 DESIGN															
7E43110000		IN: Front End System Interface Defined	0		16APR01A			100			◆ IN: Front End System Interface Defined				
7E43100000		Produce Preliminary Interface Document	3	17APR01A	19APR01A			100			✖ Produce Preliminary Interface Document				
7E43100020		Produce Conceptual Design	10	20APR01A	05JUL01A			100			▲ Produce Conceptual Design				
7E43100040		Produce Preliminary Design	70	11MAY01A	30AUG01A			100			▲ Produce Preliminary Design				
7E43100030		Produce Conceptual Design Document	5	06JUL01A	12JUL01A			100			✖ Produce Conceptual Design Document				
7E43100060	DL	Simulate Board	40	04SEP01A	01OCT01A		E	100			▲ Simulate Board				
4.1.7.4.3.1.2 FAB, ASSEMBLY & TEST															
7E43100100	DL	Assemble Test-setup	5	02OCT01A	08OCT01A		E	100			✖ Assemble Test-setup				
7E43120010	DL	Procure Test Equipment	5	02OCT01A	08OCT01A		E	100			✖ Procure Test Equipment				
7E43100070	DL	Layout	10	02OCT01A	15OCT01A		E	100			▲ Layout				
7E43100090	DL	Procure Parts	15	02OCT01A	22OCT01A		E	100			▲ Procure Parts				
7E43100120	DL	Test Performance	18	09OCT01A	01NOV01	27	E	50			▲ Test Performance				
7E43120020	DL	Assemble PCB	10	16OCT01A	29OCT01A		E	100			✖ Assemble PCB				
7E43100080	DL	Fabricate PCB	13	16OCT01A	01NOV01	2	E	50			▲ Fabricate PCB				
7E43120000		AV: Deliver Pre Engr Model to TKR	0		01NOV01	27		0			◇ AV: Deliver Pre Engr Model to TKR				
7E4312E000		AV: Pre-EM TEM for CAL Integration	0		01NOV01	27		0			◇ AV: Pre-EM TEM for CAL Integration				
7E43100110	DL	Test Function	20	02NOV01	03DEC01	2	E	0			△ Test Function				
7E43120110		ND: TKR Elex 2 Mini MCMs	0		07FEB02	155		0			◇ ND: TKR Elex 2 Mini MCMs				
4.1.7.4.3.2 ENGINEERING MODEL 1															
4.1.7.4.3.2.1 CONCEPTUAL DESIGN															
7E74311000		IN: Front End System Interface Defined	0		01NOV01	54		0			◇ IN: Front End System Interface Defined				
7E20000480	DL	Update Preliminary Interface Document	1	02NOV01	02NOV01	54	E	0			△ Update Preliminary Interface Document				
7E20000500	DL	Design blocks	5	05NOV01	09NOV01	54	E	0			△ Design blocks				
7E20000510	DL	Produce Conceptual Design Document	2	12NOV01	13NOV01	54	E	0			△ Produce Conceptual Design Document				
7E20000520	DL	Interim Parts Evaluation and Selection	3	14NOV01	16NOV01	54	E	0			△ Interim Parts Evaluation and Selection				
7E20000530		Complete Conceptual Design	0		16NOV01	54		0			◇ Complete Conceptual Design				
4.1.7.4.3.2.2 PRELIMINARY DESIGN															
7E20000540	DL	Design Board Schematics	5	19NOV01	27NOV01	54	E	0			△ Design Board Schematics				
7E20000550	DL	Design/Simulate blocks VHDL	5	19NOV01	27NOV01	54	E	0			△ Design/Simulate blocks VHDL				
7E20000585	DL	Engineer Thermal & Mechanical	5	19NOV01	27NOV01	62	E	0			△ Engineer Thermal & Mechanical				
7E20000590	DL	Produce Preliminary Design Documents	8	19NOV01	30NOV01	59	E	0			△ Produce Preliminary Design Documents				
7E20000570	DL	Synthesis FPGA's	3	28NOV01	30NOV01	54	E	0			△ Synthesis FPGA's				
7E20000580	DL	Simulate Board	5	03DEC01	07DEC01	54	E	0			△ Simulate Board				
7E20000610	DL	Review EM1 preliminary design	1	10DEC01	10DEC01	54	E	0			△ Review EM1 preliminary design				
7E43220000		EM1 preliminary design Complete	0		10DEC01	64		0			◇ EM1 preliminary design Complete				
4.1.7.4.3.2.3 FAB/ASSEMBLY/TEST															
7E20000660	DL	PR for Procure Parts	1	11DEC01	11DEC01	54	E	0			△ PR for Procure Parts				
7E43230000	DL	Procure Equipment	1	11DEC01	11DEC01	88	E	0			△ Procure Equipment				
7E20000680	DL	Assemble Test-setup	3	11DEC01	13DEC01	86	E	0			△ Assemble Test-setup				
7E20000690	DL	Software for Test-Setup	5	11DEC01	17DEC01	84	E	0			△ Software for Test-Setup				
7E20000630	DL	Layout Board	10	11DEC01	02JAN02	64	E	0			△ Layout Board				
7E20000780	DL	Thermal & Mechanical Engineering	20	11DEC01	16JAN02	144	E	0			△ Thermal & Mechanical Engineering				
7E20000650	DL	Fabricate PCB	10	03JAN02	16JAN02	64	E	0			△ Fabricate PCB				
7E4323C000	DL	Receive Procure Parts	1	31JAN02	31JAN02	54	E	0			△ Receive Procure Parts				
7E43230010	DL	Assemble PCB	5	01FEB02	07FEB02	54	E	0			△ Assemble PCB				
7E20000710	DL	Test w Simulator/Electrical/Mechanical/Thermal	10	08FEB02	22FEB02	54	E	0			△ Test w Simulator/Electrical/Mechanical/Thermal				
7E20000740	DL	Test with DAQ Electronics	10	25FEB02	08MAR02	94	E	0			△ Test with DAQ Electronics				
7E20000760	DL	Test with Subsystem Electronics	15	11MAR02	29MAR02	94	E	0			△ Test with Subsystem Electronics				
7E20000790	DL	Review Eng. Model 1	1	01APR02	01APR02	94	E	0			△ Review Eng. Model 1				
7E4323M400		Review Eng. Model 1 Complete	0		01APR02	94		0			◇ Review Eng. Model 1 Complete				
7E43230100		ND: VM Version of CAL AFEE	0		12APR02	217		0			◇ ND: VM Version of CAL AFEE				
7E43230110		ND: TKR Elex 9 MCMs	0		02JUL02	161		0			◇ ND: TKR Elex 9 MCMs				
4.1.7.4.3.3 ENGINEERING MODEL 2															
4.1.7.4.3.3.1 PRELIMINARY DESIGN															
7E43310000	DL	Update Part Selection	1	02APR02	02APR02	112	E	0			△ Update Part Selection				
7E20000820	DL	Modify blocks	5	02APR02	08APR02	114	E	0			△ Modify blocks				
7E20000830	DL	Synthesis into ASIC's/FPGA	10	02APR02	15APR02	94	E	0			△ Synthesis into ASIC's/FPGA				
7E20000870	DL	Check Thermal & Mechanical	5	03APR02	09APR02	112	E	0			△ Check Thermal & Mechanical				
7E20000840	DL	Place&Route ASICS/FPGA	15	16APR02	06MAY02	94	E	0			△ Place&Route ASICS/FPGA				
7E20000850	DL	Simulate ASICS/FPGA	15	16APR02	06MAY02	94	E	0			△ Simulate ASICS/FPGA				
7E20000890	DL	Design ASIC Test Board	44	16APR02	17JUN02	117	E	0			△ Design ASIC Test Board				
7E20000880	DL	Review EM2 preliminary design	1	05AUG02	05AUG02	31	E	0			△ Review EM2 preliminary design				
7E20000855	DL	Simulate Board	40	06AUG02	01OCT02	31	E	0			△ Simulate Board				
4.1.7.4.3.3.2 FAB, ASSEMBLY & TEST															
7E20000980	DL	Layout/Fab/Assemble ASIC Test Board	10	06AUG02	19AUG02	83	E	0			△ Layout/Fab/Assemble ASIC Test Board				
7E20001060	DL	Thermal & Mechanical Engineering	20	06AUG02	03SEP02	118	E	0			△ Thermal & Mechanical Engineering				
7E20000910	DL	Fabricate ASIC Run 1	60	06AUG02	29OCT02	33	E	0			△ Fabricate ASIC Run 1				
7E20000970	DL	PR for Procure Parts (8)	1	02OCT02	02OCT02	31	E	0			△ PR for Procure Parts (8)				

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
7E20000950	DL	Layout Modification	10	02OCT02	15OCT02	38	E	0							
7E20000960	DL	Fabricate PCB	15	16OCT02	05NOV02	38	E	0							
7E20000920	DL	Test Run 1	15	30OCT02	19NOV02	33	E	0							
7E4322C000	DL	Receive Procure Parts (8)	1	14NOV02	14NOV02	31	E	0							
7E43320000	DL	Assemble PCB	5	15NOV02	25NOV02	31	E	0							
7E20000930	DL	Fabricate ASIC Run 2	60	20NOV02	26FEB03	52	E	0							
7E20000990	DL	Test w Simulator	10	26NOV02	09DEC02	31	E	0							
7E20001020	DL	Test with DAQ Electronics	10	10DEC02	23DEC02	31	E	0							
7E20001040	DL	Test with Subsystem Electronics	10	02JAN03	15JAN03	31	E	0							
7E43320110		ND: CAL AFEE Engr Model	0		08JAN03	52		0							
7E20001070	DL	Review Eng. Model 2	1	16JAN03	16JAN03	31	E	0							
7E43320120		AV: 6 EM2 TEM to CAL	0		16JAN03	40		0							
7E4332M000		Review Eng. Model 2 Complete	0		16JAN03	31		0							
7E433E0000		AV: EM2 TEM for Qual Towers A/B to TKR	0		16JAN03	75		0							
7E20000940	DL	Test Run 2	15	27FEB03	19MAR03	52	E	0							
7E433X0000		ND: TKR Elex 36 MCMs	0		25MAR03	0		0							
4.1.7.4.3.4 FLIGHT UNITS															
4.1.7.4.3.4.1 QUALIFICATION UNIT DESIGN															
7E20001090	DL	Review parts selection and availability	47	06AUG02	10OCT02	35	E	0							
7E20001100	DL	Complete mechanical and thermal analysis	5	17JAN03	24JAN03	41	E	0							
7E20001110	DL	Review and update req and design documents	5	17JAN03	24JAN03	41	E	0							
7E20001140	DL	Modify Design and Simulate	15	17JAN03	07FEB03	31	E	0							
7E20001200		Complete Qualification Unit Design	0		25MAR03	0		0							
4.1.7.4.3.4.2 QUALIFICATION UNIT FAB, ASSEMBLY & TEST															
7E20001180	DL	PR Procure Parts	1	11OCT02	11OCT02	35	E	0							
7E20001160	DL	Modify Layout	10	26MAR03	08APR03	23	E	0							
7E20001230	DL	Develop Test Plan	10	26MAR03	08APR03	50	E	0							
7E20001170	DL	Fabricate PCB	15	09APR03	29APR03	23	E	0							
7E4342C000	DL	Receive Procure Parts	1	11APR03	11APR03	35	E	0							
7E20001190	DL	Assemble/Inspect/Coat	10	30APR03	13MAY03	23	E	0							
7E20001240	DL	Functional Test	10	14MAY03	28MAY03	25	E	0							
7E20001250	DL	Interface test	5	29MAY03	04JUN03	25	E	0							
7E20001260	DL	Performance Test	20	05JUN03	02JUL03	25	E	0							
7E20001270	DL	Ambient pressure thermal cycle test	5	03JUL03	10JUL03	25	E	0							
7E43420000	DL	Procure Equipment for Thermal Test	5	03JUL03	10JUL03	25	E	0							
7E20001280	DL	Functional Test	5	11JUL03	17JUL03	25	E	0							
7E20001210		IA: Deliver Qual Unit	0		17JUL03	41		0							
4.1.7.4.3.4.3 FLIGHT UNIT FAB, ASSEMBLY & TEST															
7E43430020	DL	PR Procure Parts	1	26MAR03	26MAR03	0	E	0							
7E20001360	DL	Update Test Plan	2	18JUL03	21JUL03	53	E	0							
7E20001300	DL	Fabrication PWB	15	18JUL03	07AUG03	25	E	0							
7E4343C000	DL	Receive Procure Parts	1	12SEP03	12SEP03	0	E	0							
7E20001310	DL	Assembly/Inspect/Coat	15	15SEP03	03OCT03	0	E	0							
7E20001340	DL	Preliminary Test	20	29SEP03	24OCT03	0	E	0							
7E20001370	DL	Functional Test	20	06OCT03	31OCT03	0	E	0							
7E20001380	DL	Interface test	4	13OCT03	16OCT03	0	E	0							
7E20001390	DL	Performance Test	20	14OCT03	10NOV03	0	E	0							
7E20001400	DL	Ambient pressure thermal cycle test	5	15OCT03	21OCT03	23	E	0							
7E43430010	DL	Procure Equipment for Thermal Test	5	11NOV03	17NOV03	0	E	0							
7E20001410	DL	Functional Test	10	18NOV03	03DEC03	0	E	0							
7E20001420		IA: 1st Flight Unit Available	0		19NOV03	0		0							
7E43430000		IA: Last Flight Unit Available	0		03DEC03	482		0							
4.1.7.4.4 ACD/TEM ELECTRONICS															
4.1.7.4.4.1 PRE ENGINEERING MODEL															
4.1.7.4.4.1.1 DESIGN															
7E44000000		IN: Front End System Interface Defined	0		15NOV01*	1,076		0							
4.1.7.4.4.1.2 FAB, ASSEMBLY & TEST															
7E44000140	DL	Modify TRK CAL TEM	10	04DEC01	17DEC01	7	E	0							
7E44000150		AV: Deliver Pre Engr Model to ACD	0		17DEC01	7		0							
7E44120000		IN: ACD Electronics for Pre Engr Model	0		17DEC01	7		0							
4.1.7.4.4.2 ENGINEERING MODEL 1															
4.1.7.4.4.2.1 CONCEPTUAL DESIGN															
7E44000160		IN: Front End System Interface Defined	0		17DEC01	7		0							
7E44000170	DL	Update Preliminary Interface Document	1	18DEC01	18DEC01	7	E	0							
7E44000180	DL	Design blocks	5	19DEC01	03JAN02	7	E	0							
7E44000190	DL	Produce Conceptual Design Document	2	04JAN02	07JAN02	7	E	0							
7E44000200	DL	Interim Parts Evaluation and Selection	3	08JAN02	10JAN02	7	E	0							
7E44000210		Complete Conceptual Design	0		10JAN02	7		0							
4.1.7.4.4.2.2 PRELIMINARY DESIGN															
7E44000220	DL	Engineer Thermal & Mechanical	5	11JAN02	17JAN02	17	E	0							
7E44000240	DL	Design/Simulate blocks VHDL	5	11JAN02	17JAN02	7	E	0							
7E44000250	DL	Design Board Schematics	5	11JAN02	17JAN02	7	E	0							
7E44000230	DL	Produce Preliminary Design Documents	8	11JAN02	23JAN02	14	E	0							
7E44000260	DL	Synthesis FPGA's	5	18JAN02	25JAN02	7	E	0							
7E44000270	DL	Simulate Board	5	28JAN02	01FEB02	7	E	0							
7E44000280	DL	Review EM1 preliminary design	1	04FEB02	04FEB02	7	E	0							
4.1.7.4.4.2.3 FAB/ASSEMBLY/TEST															
7E44000290	DL	Procure Equipment	1	05FEB02	05FEB02	46	E	0							
7E44000340	DL	PR Procure Parts	1	05FEB02	05FEB02	7	E	0							
7E44000300	DL	Assemble Test-setup	3	05FEB02	07FEB02	44	E	0							
7E44000320	DL	Layout Board	10	05FEB02	19FEB02	17	E	0							
7E44000330	DL	Thermal & Mechanical Engineering	10	05FEB02	19FEB02	135	E	0							
7E44000310	DL	Software for Test-Setup	15	05FEB02	26FEB02	32	E	0							
7E44000350	DL	Fabricate PCB	10	20FEB02	05MAR02	17	E	0							
7E4423C000	DL	Receive Procure Parts	1	19MAR02	19MAR02	7	E	0							
7E44000360	DL	Assemble PCB	10	20MAR02	02APR02	7	E	0							
7E44000380	DH	Test w Simulator/Electrical/Mechanical/Thermal	10	03APR02	16APR02	7	E	0							
7E44000390	DH	Test with DAQ Electronics	10	17APR02	30APR02	7	E	0							
7E44000375		ND: High Voltage Power Supply (board and parts)	0		03JUN02	62		0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
7E44000420		AV: EM1 Available to ACD	0		27JUN02	2		0							
7E44000370		ND: ACD Electronics for EM1 from ACD to Elec	0		01JUL02	32		0							
7E44000400	DH	Test with Subsystem Electronics	10	02JUL02	16JUL02	32	E	0							
7E44000410	DL	Review Eng. Model 1	1	17JUL02	17JUL02	32	E	0							
4.1.7.4.4.3 ENGINEERING MODEL 2															
4.1.7.4.4.3.1 PRELIMINARY DESIGN															
7E44000430	DL	Update Part Selection	1	18JUL02	18JUL02	46	E	0							
7E44000440	DL	Modify blocks	5	18JUL02	24JUL02	42	E	0							
7E44000450	DL	Synthesis into ASIC's/FPGA	5	18JUL02	24JUL02	32	E	0							
7E44000460	DL	Check Thermal & Mechanical	5	19JUL02	25JUL02	46	E	0							
7E44000480	DL	Place&Route ASICS/FPGA	10	25JUL02	07AUG02	32	E	0							
7E44000490	DL	Simulate ASICS/FPGA	10	25JUL02	07AUG02	32	E	0							
7E44000500	DL	Simulate Board	5	08AUG02	14AUG02	32	E	0							
7E44000470	DL	Review EM2 preliminary design	1	15AUG02	15AUG02	32	E	0							
7E44000510	DL	Design ASIC Test Board (if need ASIC)	14	15AUG02	04SEP02	69	E	0							
4.1.7.4.4.3.2 FAB, ASSEMBLY & TEST															
7E44000520	DL	PR Procure Parts	1	18JUL02	18JUL02	66	E	0							
7E44000530	DL	Layout Modification	10	16AUG02	29AUG02	80	E	0							
7E44000540	DL	Thermal & Mechanical Engineering	20	16AUG02	13SEP02	146	E	0							
7E44000550	DL	Fabricate ASIC Run 1 (if need ASIC)	60	16AUG02	08NOV02	32	E	0							
7E44000560	DL	Fabricate PCB	15	30AUG02	20SEP02	80	E	0							
7E44000570	DL	Layout/Fab/Assemble ASIC Test Board (need	10	05SEP02	18SEP02	69	E	0							
7E4432C000	DL	Receive Procure Parts	1	10OCT02	10OCT02	66	E	0							
7E44000580	DL	Assemble PCB	5	11OCT02	17OCT02	66	E	0							
7E44000600	DL	Test Run 1 (if need ASIC)	15	11NOV02	03DEC02	32	E	0							
7E44000610	DH	Test w Simulator	15	04DEC02	02JAN03	35	E	0							
7E44000620	DL	Fabricate ASIC Run 2 (if need ASIC)	60	04DEC02	10MAR03	32	E	0							
7E44000980		AV: EM2 Available to ACD	0		02JAN03	40		0							
7E44000630	DH	Test with DAQ Electronics	20	03JAN03	31JAN03	36	E	0							
7E44000590		ND: ACD Electronics for EM2 from ACD to Elec	0		03MAR03	16		0							
7E44000640	DL	Test with Subsystem Electronics	20	04MAR03	31MAR03	16	E	0							
7E44000650	DL	Test Run 2 (if need ASIC)	15	11MAR03	31MAR03	32	E	0							
7E44000660	DL	Review Eng. Model 2	1	01APR03	01APR03	16	E	0							
4.1.7.4.4.4 FLIGHT UNITS															
4.1.7.4.4.4.1 QUALIFICATION UNIT DESIGN															
7E44000670	DL	Review parts selection and availability	2	03JAN03	06JAN03	35	E	0							
7E44000680	DL	Complete mechanical and thermal analysis	5	02APR03	08APR03	26	E	0							
7E44000690	DL	Review and update req and design documents	5	02APR03	08APR03	26	E	0							
7E44000700	DL	Modify Design and Simulate	15	02APR03	22APR03	16	E	0							
7E44000710		Complete Qualification Unit Design	0		22APR03	16		0							
4.1.7.4.4.4.2 QUALIFICATION UNIT FAB, ASSEMBLY & TEST															
7E44000720	DL	PR Procure Parts	1	07JAN03	07JAN03	35	E	0							
7E44000730	DL	Modify Layout	10	23APR03	06MAY03	16	E	0							
7E44000740	DH	Develop Test Plan	10	23APR03	06MAY03	47	E	0							
7E4442C000	DL	Receive Procure Parts	1	30APR03	30APR03	35	E	0							
7E44000750	DL	Fabricate PCB	15	07MAY03	28MAY03	16	E	0							
7E44000760	DL	Assemble/Inspect/Coat	10	29MAY03	11JUN03	16	E	0							
7E44000780	DH	Functional Test	10	12JUN03	25JUN03	22	E	0							
7E44000790	DL	Interface test	5	26JUN03	02JUL03	22	E	0							
7E44000800	DL	Performance Test	20	03JUL03	31JUL03	22	E	0							
7E44000810	DL	Ambient pressure thermal cycle test	5	01AUG03	07AUG03	22	E	0							
7E44000820	DL	Thermal Test M&S	5	01AUG03	07AUG03	22	E	0							
7E44000830	DH	Functional Test	5	08AUG03	14AUG03	22	E	0							
7E44000840		IA: Deliver Qual Unit	0		14AUG03	23		0							
4.1.7.4.4.4.3 FLIGHT UNIT FAB, ASSEMBLY & TEST															
7E44000850	DL	Update Test Plan	2	15AUG03	18AUG03	50	E	0							
7E44000860	DL	Fabrication PWB	15	15AUG03	05SEP03	22	E	0							
7E44000870	DL	Assembly/Inspect/Coat	15	08SEP03	26SEP03	22	E	0							
7E44000890	DH	Preliminary Test	20	22SEP03	17OCT03	22	E	0							
7E44000900	DH	Functional Test	20	29SEP03	24OCT03	22	E	0							
7E44000910	DL	Interface test	4	06OCT03	09OCT03	22	E	0							
7E44000920	DL	Performance Test	20	07OCT03	03NOV03	22	E	0							
7E44000930	DL	Ambient pressure thermal cycle test	5	08OCT03	14OCT03	45	E	0							
7E44000940	DL	Thermal Test M&S	5	04NOV03	10NOV03	22	E	0							
7E44000950	DH	Functional Test	10	11NOV03	24NOV03	22	E	0							
7E44000960		IA: 1st Flight Unit Available	0		12NOV03	30		0							
7E44000970		IA: Last Flight Unit Available	0		24NOV03	22		0							
4.1.7.4.5 GLT-CPU INTERFACE CARD (LAT EP COM CARD)															
4.1.7.4.5.1 PRE ENGINEERING MODEL															
4.1.7.4.5.1.1 DESIGN															
7E45000050		IN: Front End System Interface Defined	0		02JUL01A			100							
7E45000000		Produce Preliminary Interface Document	3	03JUL01A	06JUL01A			100							
7E45000010		Produce Conceptual Design	10	09JUL01A	20JUL01A			100							
7E45000020		Produce Conceptual Design Document	5	23JUL01A	27JUL01A			100							
7E45000030		Produce Preliminary Design	5	30JUL01A	03AUG01A			100							
7E45000040		Simulate Board	5	06AUG01A	10AUG01A			100							
4.1.7.4.5.1.2 FAB, ASSEMBLY & TEST															
7E45000090		Assemble Test-setup	5	13AUG01A	17AUG01A			100							
7E45000130		Procure Equipment	5	13AUG01A	17AUG01A			100							
7E45000060		Layout	10	13AUG01A	24AUG01A			100							
7E45000080		Procure Test Parts	15	13AUG01A	31AUG01A			100							
7E45000140		Assemble PCB (4)	5	27AUG01A	31AUG01A			100							
7E45000070		Fabricate PCB (4)	10	27AUG01A	10SEP01A			100							
7E45000100		Test	10	11SEP01A	24SEP01A			100							
7E45000110	DL	Test Sub-Systems	15	25SEP01A	15OCT01A		E	100							
7E45000120		AV: VME Com Card (TEM Sim) to CAL	0		15OCT01A			100							
7E4512EXT0		AV: Com Card for TKR EM Function Test	0		15OCT01A			100							
7E4512XA00		AV: Com Card for ACD Prototype Test	0		15OCT01A			100							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
4.1.7.4.5.2 ENGINEERING MODEL 1															
4.1.7.4.5.2.1 CONCEPTUAL DESIGN															
7E45000160	DL	Update Preliminary Interface Document	1	16OCT01A	16OCT01A		E	100							
7E45000170	DL	Design blocks	5	17OCT01A	23OCT01A		E	100							
7E45000180	DL	Produce Conceptual Design Document	2	24OCT01A	25OCT01A		E	100							
7E45000190	DL	Interim Parts Evaluation and Selection	3	26OCT01A	30OCT01A		E	100							
7E45000200		Complete Conceptual Design	0		30OCT01A			100							
4.1.7.4.5.2.2 PRELIMINARY DESIGN															
7E45000260	DL	Engineer Thermal & Mechanical	5	31OCT01A	06NOV01	80	E	50							
7E45000270	DL	Produce Preliminary Design Documents	8	31OCT01A	09NOV01	77	E	50							
7E45000220	DL	Design Board Schematics	10	31OCT01A	13NOV01	62	E	50							
7E45000230	DL	Design/Simulate blocks VHDL	10	31OCT01A	13NOV01	62	E	50							
7E45000240	DL	Synthesis FPGA's	3	14NOV01	16NOV01	62	E	0							
7E45000250	DL	Simulate Board	10	19NOV01	04DEC01	62	E	0							
7E45000280	DL	Review EM1 preliminary design	1	05DEC01	05DEC01	62	E	0							
4.1.7.4.5.2.3 FAB/ASSEMBLY/TEST															
7E45000320	DL	PR Procure Parts	1	06DEC01	06DEC01	62	E	0							
7E45000330	DL	Assemble Test-setup	1	06DEC01	06DEC01	91	E	0							
7E45000400	DL	Procure Equipment	1	06DEC01	06DEC01	91	E	0							
7E45000290	DL	Prepare manufacturing traveler	2	06DEC01	07DEC01	90	E	0							
7E45000380	DL	Thermal & Mechanical Engineering	8	06DEC01	17DEC01	119	E	0							
7E45000300	DL	Layout Board	10	06DEC01	19DEC01	72	E	0							
7E45000340	DL	Software for Test-Setup	15	06DEC01	04JAN02	77	E	0							
7E45000410	DL	Assemble PCB	5	20DEC01	04JAN02	77	E	0							
7E45000310	DL	Fabricate PCB	10	20DEC01	11JAN02	72	E	0							
7E4523C000	DL	Receive Procure Parts	1	28JAN02	28JAN02	62	E	0							
7E45000350	DL	Test w Simulator/Electrical/Mechanical/Thermal	10	29JAN02	11FEB02	62	E	0							
7E45000360	DL	Test with DAQ Electronics	10	01MAY02	14MAY02	7	E	0							
7E45000370	DL	Test with Subsystem Electronics	15	15MAY02	05JUN02	7	E	0							
7E45000390	DL	Review Eng. Model 1	1	06JUN02	06JUN02	7	E	0							
7E45000430		IA: EM1 Available	0		06JUN02	49		0							
4.1.7.4.5.3 ENGINEERING MODEL 2															
4.1.7.4.5.3.1 PRELIMINARY DESIGN															
7E45000520	DL	Update Part Selection	1	07JUN02	07JUN02	49	E	0							
7E45000440	DL	Modify blocks	5	07JUN02	13JUN02	27	E	0							
7E45000450	DL	Synthesis into ASIC's/FPGA	10	07JUN02	20JUN02	7	E	0							
7E45000490	DL	Check Thermal & Mechanical	1	10JUN02	10JUN02	49	E	0							
7E45000460	DL	Place&Route ASICS/FPGA	15	21JUN02	12JUL02	7	E	0							
7E45000470	DL	Simulate ASICS/FPGA	15	21JUN02	12JUL02	7	E	0							
7E45000480	DL	Simulate Board	5	15JUL02	19JUL02	7	E	0							
7E45000510	DL	Design ASIC Test Board (if need ASIC)	14	22JUL02	08AUG02	7	E	0							
7E45000500	DL	Review EM2 preliminary design	37	09AUG02	01OCT02	7	E	0							
4.1.7.4.5.3.2 FAB, ASSEMBLY & TEST															
7E45000590	DL	PR Procure Parts	1	06JUN02	06JUN02	60	E	0							
7E45000570	DL	Layout Modification	1	02OCT02	02OCT02	52	E	0							
7E45000650	DL	Thermal & Mechanical Engineering	2	02OCT02	03OCT02	115	E	0							
7E45000600	DL	Layout/Fab/Assemble ASIC Test Board (need	10	02OCT02	15OCT02	57	E	0							
7E45000530	DL	Fabricate ASIC Run 1 (if need ASIC)	60	02OCT02	06JAN03	7	E	0							
7E45000580	DL	Fabricate PCB	15	03OCT02	23OCT02	52	E	0							
7E4532C000	DL	Receive Procure Parts	1	11OCT02	11OCT02	60	E	0							
7E45000670	DL	Assemble PCB	5	24OCT02	30OCT02	52	E	0							
7E45000540	DL	Test Run 1 (if need ASIC)	15	07JAN03	28JAN03	7	E	0							
7E45000610	DL	Test w Simulator	15	29JAN03	19FEB03	7	E	0							
7E45000550	DL	Fabricate ASIC Run 2 (if need ASIC)	60	29JAN03	23APR03	23	E	0							
7E45000630	DL	Test with DAQ Electronics	10	20FEB03	05MAR03	7	E	0							
7E45000640	DL	Test with Subsystem Electronics	10	06MAR03	19MAR03	7	E	0							
7E45000660	DL	Review Eng. Model 2	1	20MAR03	20MAR03	7	E	0							
7E45000560	DL	Test Run 2 (if need ASIC)	15	24APR03	14MAY03	23	E	0							
4.1.7.4.5.4 FLIGHT UNITS															
4.1.7.4.5.4.1 QUALIFICATION UNIT DESIGN															
7E45000680	DL	Review parts selection and availability	10	31OCT02	13NOV02	52	E	0							
7E45000690	DL	Complete mechanical and thermal analysis	5	21MAR03	27MAR03	17	E	0							
7E45000700	DL	Review and update req and design documents	5	21MAR03	27MAR03	17	E	0							
7E45000710	DL	Modify Design and Simulate	15	21MAR03	10APR03	7	E	0							
4.1.7.4.5.4.2 QUALIFICATION UNIT FAB, ASSEMBLY & TEST															
7E45000760	DL	PR Procure Parts	1	14NOV02	14NOV02	52	E	0							
7ER4542000	DL	Receive Procure Parts	1	03APR03	03APR03	52	E	0							
7E45000740	DL	Modify Layout	10	11APR03	24APR03	7	E	0							
7E45000790	DL	Develop Test Plan	10	11APR03	24APR03	47	E	0							
7E45000750	DL	Fabricate PCB	30	25APR03	06JUN03	7	E	0							
7E45000770	DL	Assemble/Inspect/Coat	10	09JUN03	20JUN03	7	E	0							
7E45000800	DL	Functional Test	10	23JUN03	07JUL03	7	E	0							
7E45000810	DL	Interface test	5	08JUL03	14JUL03	7	E	0							
7E45000820	DL	Performance Test	10	15JUL03	28JUL03	7	E	0							
7E45000830	DL	Ambient pressure thermal cycle test	5	29JUL03	04AUG03	7	E	0							
7E45000850	DL	Procure Equipment for Thermal Test	5	29JUL03	04AUG03	7	E	0							
7E45000840	DL	Functional Test	5	05AUG03	11AUG03	7	E	0							
7E45000720		IA: Deliver Qual Unit	0		11AUG03	7		0							
4.1.7.4.5.4.3 FLIGHT UNIT FAB, ASSEMBLY & TEST															
7E45000900	DL	Update Test Plan	2	12AUG03	13AUG03	35	E	0							
7E45000860	DL	Fabrication PWB	15	12AUG03	02SEP03	7	E	0							
7E45430000	DL	Procure Parts	15	12AUG03	02SEP03	22	E	0							
7E45000870	DL	Assembly/Inspect/Coat	15	03SEP03	23SEP03	7	E	0							
7E45000890	DL	Preliminary Test	10	17SEP03	30SEP03	7	E	0							
7E45000910	DL	Functional Test	10	24SEP03	07OCT03	7	E	0							
7E45000920	DL	Interface test	4	01OCT03	06OCT03	7	E	0							
7E45000930	DL	Performance Test	10	02OCT03	15OCT03	7	E	0							
7E45000940	DL	Ambient pressure thermal cycle test	5	03OCT03	09OCT03	20	E	0							
7E45000980	DL	Procure Equipment for Thermal Test	5	16OCT03	22OCT03	7	E	0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
7E45000950	DL	Functional Test	10	23OCT03	05NOV03	7	E	0							
7E45000960		IA: 1st Flight Unit Available	0		24OCT03	15		0							
7E45000970		IA: Last Flight Unit Available	0		05NOV03	7		0							
4.1.7.4.6 DATA CPUs (AND IO CARD)															
4.1.7.4.6.2 ENGINEERING MODEL 1															
4.1.7.4.6.2.1 CONCEPTUAL DESIGN															
7E4621A000	DN	FY01 Effort	20	02OCT00A	28SEP01A		E	100							
7E46210000		IN: Interface Defined	0		01OCT01A			100							
7E46000160	DN	Update Preliminary Interface Document	1	02OCT01A	02OCT01A		E	100							
7E46000170	DN	Design blocks	5	03OCT01A	09OCT01A		E	100							
7E46000180	DN	Produce Conceptual Design Document	2	10OCT01A	11OCT01A		E	100							
7E46000190	DN	Interim Parts Evaluation and Selection	3	12OCT01A	16OCT01A		E	100							
4.1.7.4.6.2.2 PRELIMINARY DESIGN															
7E46000260	DN	Engineer Thermal & Mechanical	5	12OCT01A	18OCT01A		E	100							
7E46000270	DN	Produce Preliminary Design Documents	8	12OCT01A	23OCT01A		E	100							
7E46000230	DN	Design/Simulate blocks VHDL	20	12OCT01A	08NOV01	121	E	50							
7E46000220	DN	Design Board Schematics	20	17OCT01A	13NOV01	118	E	50							
7E46000240	DN	Synthesis FPGA's	10	14NOV01	29NOV01	118	E	0							
7E46000250	DN	Simulate Board	5	30NOV01	06DEC01	118	E	0							
7E46000280	DN	Review EM1 preliminary design	1	07DEC01	07DEC01	118	E	0							
4.1.7.4.6.2.3 FAB/ASSEMBLY/TEST															
7E46A00000	DL	Procure CPU	1	01OCT01A	01OCT01A		E	100							
7E46000320	DN	PR Procure Parts	1	10DEC01	10DEC01	123	E	0							
7E46000330	DN	Assemble Test-setup	1	10DEC01	10DEC01	152	E	0							
7E46000400	DN	Procure Equipment	1	10DEC01	10DEC01	152	E	0							
7E46000290	DN	Prepare manufacturing traveler	2	10DEC01	11DEC01	151	E	0							
7E46000380	DN	Thermal & Mechanical Engineering	8	10DEC01	19DEC01	190	E	0							
7E46000300	DN	Layout Board	15	10DEC01	08JAN02	118	E	0							
7E46000340	DN	Software for Test-Setup	15	10DEC01	08JAN02	138	E	0							
7E46000410	DN	Assemble PCB	5	09JAN02	15JAN02	133	E	0							
7E46000310	DN	Fabricate PCB	20	09JAN02	06FEB02	118	E	0							
7ER4623000	DN	Receive Procure Parts	1	30JAN02	30JAN02	123	E	0							
7E46000350	DN	Test w Simulator/Electrical/Mechanical/Thermal	20	07FEB02	07MAR02	118	E	0							
7E46000360	DN	Test with DAQ Electronics	10	15MAY02	29MAY02	70	E	0							
7E46000370	DN	Test with Subsystem Electronics	15	30MAY02	19JUN02	70	E	0							
7E46000390	DN	Review Eng. Model 1	1	20JUN02	20JUN02	70	E	0							
7E46000430		IA: EM1 Available	0		20JUN02	98		0							
4.1.7.4.6.3 ENGINEERING MODEL 2															
4.1.7.4.6.3.1 PRELIMINARY DESIGN															
7E46000520	DN	Update Part Selection	1	21JUN02	21JUN02	98	E	0							
7E46000440	DN	Modify blocks	5	21JUN02	27JUN02	85	E	0							
7E46000450	DN	Synthesis into ASIC's/FPGA	10	21JUN02	05JUL02	70	E	0							
7E46000490	DN	Check Thermal & Mechanical	1	24JUN02	24JUN02	107	E	0							
7E46000460	DN	Place&Route ASICS/FPGA	10	08JUL02	19JUL02	70	E	0							
7E46000470	DN	Simulate ASICS/FPGA	10	08JUL02	19JUL02	70	E	0							
7E46000480	DN	Simulate Board	5	22JUL02	26JUL02	70	E	0							
7E46000510	DN	Design ASIC Test Board (if need ASIC)	14	29JUL02	15AUG02	70	E	0							
7E46000500	DN	Review EM2 preliminary design	1	16AUG02	16AUG02	70	E	0							
4.1.7.4.6.3.2 FAB, ASSEMBLY & TEST															
7E46000590	DN	PR Procure Parts	1	24JUN02	24JUN02	98	E	0							
7E46000650	DN	Thermal & Mechanical Engineering	2	19AUG02	20AUG02	182	E	0							
7E46000570	DN	Layout Modification	5	19AUG02	23AUG02	129	E	0							
7E46000600	DN	Layout/Fab/Assemble ASIC Test Board (need	10	19AUG02	30AUG02	120	E	0							
7E46000580	DN	Fabricate PCB	15	26AUG02	16SEP02	129	E	0							
7E46000530	DN	Fabricate ASIC Run 1 (if need ASIC)	60	01OCT02	03JAN03	40	E	0							
7ER4632000	DN	Receive Procure Parts	1	29OCT02	29OCT02	98	E	0							
7E46000670	DN	Assemble PCB	5	30OCT02	05NOV02	98	E	0							
7E46000540	DN	Test Run 1 (if need ASIC)	15	06JAN03	27JAN03	40	E	0							
7E46000610	DN	Test w Simulator	10	28JAN03	10FEB03	49	E	0							
7E46000550	DN	Fabricate ASIC Run 2 (if need ASIC)	60	28JAN03	22APR03	40	E	0							
7E46000630	DN	Test with DAQ Electronics	10	11FEB03	25FEB03	49	E	0							
7E46000640	DN	Test with Subsystem Electronics	10	26FEB03	11MAR03	49	E	0							
7E46000660	DN	Review Eng. Model 2	1	12MAR03	12MAR03	49	E	0							
7E46000560	DN	Test Run 2 (if need ASIC)	15	23APR03	13MAY03	40	E	0							
4.1.7.4.6.4 FLIGHT UNITS															
4.1.7.4.6.4.1 QUALIFICATION UNIT DESIGN															
7E46000680	DN	Review parts selection and availability	25	19AUG02	23SEP02	95	E	0							
7E46000690	DN	Complete mechanical and thermal analysis	5	13MAR03	19MAR03	59	E	0							
7E46000700	DN	Review and update req and design documents	5	13MAR03	19MAR03	163	E	0							
7E46000710	DN	Modify Design and Simulate	15	13MAR03	02APR03	49	E	0							
4.1.7.4.6.4.2 QUALIFICATION UNIT FAB, ASSEMBLY & TEST															
7E46000760	DL	PR Procure Parts	1	01OCT02	01OCT02	90	E	0							
7ER4642000	DL	Receive Procure Parts	1	04MAR03	04MAR03	90	E	0							
7E46000740	DN	Modify Layout	10	03APR03	16APR03	49	E	0							
7E46000790	DN	Develop Test Plan	10	03APR03	16APR03	79	E	0							
7E46000750	DN	Fabricate PCB	10	17APR03	30APR03	49	E	0							
7E46000770	DN	Assemble/Inspect/Coat	10	14MAY03	28MAY03	40	E	0							
7E46000800	DN	Functional Test	10	12JUN03	25JUN03	40	E	0							
7E46000810	DN	Interface test	5	26JUN03	02JUL03	40	E	0							
7E46000820	DN	Performance Test	10	03JUL03	17JUL03	40	E	0							
7E46000830	DN	Ambient pressure thermal cycle test	5	18JUL03	24JUL03	40	E	0							
7E46000850	DN	Procure Equipment for Thermal Test	5	18JUL03	24JUL03	40	E	0							
7E46000840	DN	Functional Test	5	25JUL03	31JUL03	40	E	0							
7E46000720		IA: Deliver Qual Unit	0		31JUL03	40		0							
7E46410000	DL	PR Procure Additional Parts	1	01OCT03*	01OCT03	0	E	0							
7E46410010	DL	Receive Additional Procure Parts	1	03MAR04	03MAR04	0	E	0							
4.1.7.4.6.4.3 FLIGHT UNIT FAB, ASSEMBLY & TEST															
7E46000900	DN	Update Test Plan	2	01AUG03	04AUG03	107	E	0							
7E46000860	DL	Fabrication PWB	15	01AUG03	21AUG03	79	E	0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
7E46000870	DL	Assembly/Inspect/Coat	15	22AUG03	12SEP03	79	E	0							
7E46000890	DN	Preliminary Test	10	08SEP03	19SEP03	79	E	0							
7E46000910	DN	Functional Test	10	15SEP03	26SEP03	79	E	0							
7E46000920	DN	Interface test	4	22SEP03	25SEP03	79	E	0							
7E46000930	DN	Performance Test	10	23SEP03	06OCT03	79	E	0							
7E46000940	DN	Ambient pressure thermal cycle test	5	24SEP03	30SEP03	92	E	0							
7E46000980	DN	Procure Equipment for Thermal Test	5	07OCT03	13OCT03	79	E	0							
7E46000950	DN	Functional Test	10	14OCT03	27OCT03	79	E	0							
7E46000960		IA: 1st Flight Unit Available	0		15OCT03	79		0							
7E46000970		IA: Last Flight Unit Available	0		03MAR04	0		0							
4.1.7.4.7 DATA CPU BACKPLANE															
4.1.7.4.7.1 ENGINEERING MODEL 1															
4.1.7.4.7.1.1 CONCEPTUAL DESIGN															
7E47110000	DN	Produce Conceptual Design	20	01FEB02*	01MAR02	72	E	0							
4.1.7.4.7.1.2 PRELIMINARY DESIGN															
7E47120000	DN	Produce Preliminary Design	15	04MAR02	22MAR02	72	E	0							
4.1.7.4.7.1.3 FAB/ASSEMBLY/TEST															
7E47130000	DN	Fabricate	10	25MAR02	05APR02	77	E	0							
7E47130010	DN	Procure Parts	10	25MAR02	05APR02	72	E	0							
7E47130020	DN	Assemble	5	08APR02	12APR02	72	E	0							
7E47130030	DN	Test	20	15APR02	10MAY02	72	E	0							
7E47130040		IA: EM1 Backplane Available for Data CPU	0		10MAY02	72		0							
4.1.7.4.7.2 ENGINEERING MODEL 2															
4.1.7.4.7.2.1 CONCEPTUAL DESIGN															
7E47200000	DN	Produce Conceptual Design	5	21JUN02	27JUN02	169	E	0							
4.1.7.4.7.2.2 PRELIMINARY DESIGN															
7E47200010	DN	Produce Preliminary Design	5	28JUN02	05JUL02	169	E	0							
4.1.7.4.7.2.3 FAB/ASSEMBLY/TEST															
7E47200020	DN	Fabricate	10	08JUL02	19JUL02	174	E	0							
7E47200030	DN	Procure Parts	10	08JUL02	19JUL02	169	E	0							
7E47200040	DN	Assemble	5	22JUL02	26JUL02	169	E	0							
7E47200050	DN	Test	10	29JUL02	09AUG02	169	E	0							
7E47200060		IA: EM2 Backplane Available for Data CPU	0		09AUG02	169		0							
4.1.7.4.7.3 FLIGHT UNITS															
4.1.7.4.7.3.1 QUALIFICATION UNIT DESIGN															
7E47310050	DN	Update Design	5	03APR03	09APR03	59	E	0							
4.1.7.4.7.3.2 QUALIFICATION UNIT FAB, ASSEMBLY & TEST															
7E47320010	DN	Fabricate	10	10APR03	23APR03	64	E	0							
7E47320020	DN	Procure Parts	10	10APR03	23APR03	59	E	0							
7E47320030	DN	Assemble	5	24APR03	30APR03	59	E	0							
7E47320040	DN	Test	10	29MAY03	11JUN03	40	E	0							
7E47320050		IA: Qual Unit Available for Data CPU	0		11JUN03	40		0							
4.1.7.4.7.3.3 FLIGHT UNIT FAB, ASSEMBLY & TEST															
7E47330020	DN	Procure Parts	10	12JUN03	25JUN03	114	E	0							
7E47330030	DN	Assemble	10	26JUN03	10JUL03	114	E	0							
7E47330010	DN	Fabricate	10	01AUG03	14AUG03	89	E	0							
7E47330040	DN	Test	5	15AUG03	21AUG03	89	E	0							
7E47330050		IA: Flight Unit Available for Data CPU	0		21AUG03	89		0							
4.1.7.4.8 GLOBAL TRIGGER (GLT) ELECTRONICS															
4.1.7.4.8.1 PRE ENGINEERING MODEL															
4.1.7.4.8.1.1 DESIGN															
7E8G000000		IN: Front End System Interface Defined	0		15NOV01*	92		0							
4.1.7.4.8.1.2 FAB, ASSEMBLY & TEST															
7E8G000010	DL	Modify TRK Cal TEM	10	04DEC01	17DEC01	82	E	0							
7E8G000020		IA: Deliver Pre Engr Model to Front End Sys	0		17DEC01	82		0							
4.1.7.4.8.2 ENGINEERING MODEL 1															
4.1.7.4.8.2.1 CONCEPTUAL DESIGN															
7E8G000030		IN: Front End System Interface Defined	0		17DEC01	82		0							
7E8G000040	DL	Update Preliminary Interface Document	1	18DEC01	18DEC01	82	E	0							
7E8G000050	DL	Design blocks	5	19DEC01	03JAN02	82	E	0							
7E8G000060	DL	Produce Conceptual Design Document	2	04JAN02	07JAN02	82	E	0							
7E8G000070	DL	Interim Parts Evaluation and Selection	3	08JAN02	10JAN02	82	E	0							
7E8G000080		Complete Conceptual Design	0		10JAN02	82		0							
4.1.7.4.8.2.2 PRELIMINARY DESIGN															
7E8G000090	DL	Design/Simulate blocks VHDL	5	11JAN02	17JAN02	82	E	0							
7E8G000100	DL	Design Board Schematics	5	11JAN02	17JAN02	82	E	0							
7E8G000120	DL	Engineer Thermal & Mechanical	5	11JAN02	17JAN02	92	E	0							
7E8G000110	DL	Produce Preliminary Design Documents	8	11JAN02	23JAN02	89	E	0							
7E8G000130	DL	Synthesis FPGA's	5	18JAN02	25JAN02	82	E	0							
7E8G000140	DL	Simulate Board	5	28JAN02	01FEB02	82	E	0							
7E8G000150	DL	Review EM1 preliminary design	1	04FEB02	04FEB02	82	E	0							
4.1.7.4.8.2.3 FAB/ASSEMBLY/TEST															
7E8G000160	DL	PR Procure Parts	1	05FEB02	05FEB02	82	E	0							
7E8G000200	DL	Procure Equipment	1	05FEB02	05FEB02	121	E	0							
7E8G000190	DL	Assemble Test-setup	3	05FEB02	07FEB02	119	E	0							
7E8G000170	DL	Layout Board	10	05FEB02	19FEB02	92	E	0							
7E8G000210	DL	Thermal & Mechanical Engineering	10	05FEB02	19FEB02	142	E	0							
7E8G000180	DL	Software for Test-Setup	15	05FEB02	26FEB02	107	E	0							
7E8G000220	DL	Fabricate PCB	10	20FEB02	05MAR02	92	E	0							
7E8G000230	DL	Receive Procure Parts	1	19MAR02	19MAR02	82	E	0							
7E8G000240	DL	Assemble PCB	10	20MAR02	02APR02	82	E	0							
7E8G000260	DH	Test w Simulator/Electrical/Mechanical/Thermal	10	03APR02	16APR02	82	E	0							
7E8G000270	DH	Test with DAQ Electronics	10	17APR02	30APR02	82	E	0							
7E8G000280	DH	Test with Subsystem Electronics	10	01MAY02	14MAY02	82	E	0							
7E8G000290	DL	Review Eng. Model 1	1	15MAY02	15MAY02	82	E	0							
7E8G000300		IA: GLT EM1 Available	0		15MAY02	96		0							
4.1.7.4.8.3 ENGINEERING MODEL 2															
4.1.7.4.8.3.1 PRELIMINARY DESIGN															
7E8G000330	DL	Update Part Selection	1	16MAY02	16MAY02	96	E	0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
7E8G000310	DL	Synthesis into ASIC's/FPGA	5	16MAY02	22MAY02	82	E	0							
7E8G000320	DL	Modify blocks	5	16MAY02	22MAY02	92	E	0							
7E8G000350	DL	Check Thermal & Mechanical	5	17MAY02	23MAY02	96	E	0							
7E8G000360	DL	Place&Route ASICs/FPGA	10	23MAY02	06JUN02	82	E	0							
7E8G000370	DL	Simulate ASICs/FPGA	10	23MAY02	06JUN02	82	E	0							
7E8G000380	DL	Simulate Board	5	07JUN02	13JUN02	82	E	0							
7E8G000390	DL	Review EM2 preliminary design	1	14JUN02	14JUN02	82	E	0							
7E8G000400	DL	Design ASIC Test Board (if need ASIC)	14	14JUN02	03JUL02	119	E	0							
4.1.7.4.8.3.2 FAB, ASSEMBLY & TEST															
7E8G000340	DL	PR Procure Parts	1	16MAY02	16MAY02	116	E	0							
7E8G000420	DL	Layout Modification	10	17JUN02	28JUN02	130	E	0							
7E8G000430	DL	Thermal & Mechanical Engineering	20	17JUN02	15JUL02	196	E	0							
7E8G000410	DL	Fabricate ASIC Run 1 (if need ASIC)	60	17JUN02	10SEP02	82	E	0							
7E8G000440	DL	Fabricate PCB	15	01JUL02	22JUL02	130	E	0							
7E8G000450	DL	Layout/Fab/Assemble ASIC Test Board (need	10	05JUL02	18JUL02	119	E	0							
7E8G000460	DL	Receive Procure Parts	1	09AUG02	09AUG02	116	E	0							
7E8G000470	DL	Assemble PCB	5	12AUG02	16AUG02	116	E	0							
7E8G000490	DL	Test Run 1 (if need ASIC)	15	11SEP02	01OCT02	82	E	0							
7E8G000500	DH	Test w Simulator	15	02OCT02	22OCT02	85	E	0							
7E8G000510	DL	Fabricate ASIC Run 2 (if need ASIC)	60	02OCT02	06JAN03	82	E	0							
7E8G000520	DH	Test with DAQ Electronics	20	23OCT02	19NOV02	86	E	0							
7E8G000550	DL	Test with Subsystem Electronics	20	20NOV02	19DEC02	86	E	0							
7E8G000560		IA: GLT EM2 Available	0		19DEC02	617		0							
7E8G000570	DL	Review Eng. Model 2	1	20DEC02	20DEC02	86	E	0							
7E8G000610	DL	Test Run 2 (if need ASIC)	15	07JAN03	28JAN03	82	E	0							
4.1.7.4.8.4 FLIGHT UNITS															
4.1.7.4.8.4.1 QUALIFICATION UNIT DESIGN															
7E8G000530	DL	Review parts selection and availability	2	23OCT02	24OCT02	85	E	0							
7E8G000590	DL	Complete mechanical and thermal analysis	5	23DEC02	07JAN03	96	E	0							
7E8G000600	DL	Review and update req and design documents	5	23DEC02	07JAN03	96	E	0							
7E8G000580	DL	Modify Design and Simulate	15	23DEC02	22JAN03	86	E	0							
7E8G000620		Complete Qualification Unit Design	0		28JAN03	82		0							
4.1.7.4.8.4.2 QUALIFICATION UNIT FAB, ASSEMBLY & TEST															
7E8G000540	DL	PR Procure Parts	1	25OCT02	25OCT02	85	E	0							
7E8G000630	DL	Modify Layout	10	29JAN03	11FEB03	82	E	0							
7E8G000640	DH	Develop Test Plan	10	29JAN03	11FEB03	107	E	0							
7E8G000650	DL	Fabricate PCB	15	12FEB03	05MAR03	82	E	0							
7E8G000660	DL	Receive Procure Parts	1	28FEB03	28FEB03	85	E	0							
7E8G000670	DL	Assemble/Inspect/Coat	10	06MAR03	19MAR03	82	E	0							
7E8G000690	DH	Functional Test	10	20MAR03	02APR03	82	E	0							
7E8G000700	DL	Interface test	5	03APR03	09APR03	82	E	0							
7E8G000710	DL	Performance Test	20	10APR03	07MAY03	82	E	0							
7E8G000720	DL	Ambient pressure thermal cycle test	5	08MAY03	14MAY03	82	E	0							
7E8G000730	DL	Thermal Test M&S	5	08MAY03	14MAY03	82	E	0							
7E8G000740	DH	Functional Test	5	15MAY03	21MAY03	82	E	0							
7E8G000750		IA: GLT Deliver Qual Unit	0		21MAY03	82		0							
4.1.7.4.8.4.3 FLIGHT UNIT FAB, ASSEMBLY & TEST															
7E8G000770	DL	Update Test Plan	2	22MAY03	23MAY03	117	E	0							
7E8G000760	DL	Fabrication PWB	15	22MAY03	12JUN03	89	E	0							
7E8G000780	DL	Assembly/Inspect/Coat	15	13JUN03	03JUL03	89	E	0							
7E8G000800	DH	Preliminary Test	20	27JUN03	25JUL03	89	E	0							
7E8G000810	DH	Functional Test	20	07JUL03	01AUG03	89	E	0							
7E8G000820	DL	Interface test	4	14JUL03	17JUL03	89	E	0							
7E8G000830	DL	Performance Test	20	15JUL03	11AUG03	89	E	0							
7E8G000840	DL	Ambient pressure thermal cycle test	5	16JUL03	22JUL03	112	E	0							
7E8G000850	DL	Thermal Test M&S	5	12AUG03	18AUG03	89	E	0							
7E8G000860	DH	Functional Test	10	19AUG03	02SEP03	89	E	0							
7E8G000870		IA: 1st Flight Unit Available	0		20AUG03	89		0							
7E8G000880		IA: Last Flight Unit Available	0		02SEP03	91		0							
4.1.7.4.9 TEST BED DATA FLOW															
7E49000000		Test Bed Data Flow EM2 System Test	0		11FEB03	617		0							
7E48000100	DL	PR Procure Parts EM2	1	17DEC03	17DEC03	363	E	0							
7ER4800010	DL	Receive Procure Parts EM2	1	23FEB04	23FEB04	363	E	0							
7E48000110	DL	Support EM2	120	24FEB04	11AUG04	363	E	0							
4.1.7.5 SPACECRAFT INTERFACE UNIT															
7E20004620		Major Review Requir./Conceptual Design	0		13FEB02	130		0							
7E20004630		Major Review Preliminary Design	0		22APR02	190		0							
7E20004640		Major Review Final Design	0		13DEC02	136		0							
7E20004650		Major Review Flight Readiness	0		15AUG03	557		0							
4.1.7.5.1 DESIGN REQUISITES															
7E20004700	DN	Design Concept of SIU System	30	01AUG01A	28SEP01A		E	100							
7E20004670	DN	SIU to CPU interface	20	01OCT01A	26OCT01A		E	100							
7E20004690	DN	SIU to Power control interface	20	01OCT01A	26OCT01A		E	100							
7E20004680	DN	SIU to SV interface	30	01OCT01A	09NOV01	139	E	50							
7E20004710		Complete Design Requisites	0		09NOV01	139		0							
4.1.7.5.2 SPACECRAFT - COMMUNICATIONS CARD															
4.1.7.5.2.2 ENGINEERING MODEL 1															
4.1.7.5.2.2.1 CONCEPTUAL DESIGN															
7E52000210		IN: Front End System Interface Defined	0		01FEB02*	89		0							
7E52000160	DN	Update Preliminary Interface Document	1	04FEB02	04FEB02	89	E	0							
7E52000170	DN	Design blocks	5	05FEB02	11FEB02	89	E	0							
7E52000180	DN	Produce Conceptual Design Document	2	12FEB02	13FEB02	89	E	0							
7E52000190	DN	Interim Parts Evaluation and Selection	3	14FEB02	19FEB02	89	E	0							
7E52000200		Complete Conceptual Design	0		19FEB02	89		0							
4.1.7.5.2.2.2 PRELIMINARY DESIGN															
7E52000260	DN	Engineer Thermal & Mechanical	5	20FEB02	26FEB02	127	E	0							
7E52000270	DN	Produce Preliminary Design Documents	8	20FEB02	01MAR02	124	E	0							
7E52000220	DN	Design Board Schematics	10	20FEB02	05MAR02	114	E	0							
7E52000230	DN	Design/Simulate blocks VHDL	35	20FEB02	09APR02	89	E	0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year							
									FY01	FY02	FY03	FY04	FY05	FY06	FY07	
7E52000240	DN	Synthesis FPGA's	3	10APR02	12APR02	89	E	0								
7E52000250	DN	Simulate Board	5	15APR02	19APR02	89	E	0								
7E52000280	DN	Review EM1 preliminary design	1	22APR02	22APR02	89	E	0								
4.1.7.5.2.2.3 FAB/ASSEMBLY/TEST																
7E52000320	DN	PR Procure Parts	1	23APR02	23APR02	89	E	0								
7E52000330	DN	Assemble Test-setup	1	23APR02	23APR02	118	E	0								
7E52000400	DN	Procure Equipment	1	23APR02	23APR02	118	E	0								
7E52000290	DN	Prepare manufacturing traveler	2	23APR02	24APR02	117	E	0								
7E52000380	DN	Thermal & Mechanical Engineering	8	23APR02	02MAY02	151	E	0								
7E52000300	DN	Layout Board	10	23APR02	06MAY02	99	E	0								
7E52000340	DN	Software for Test-Setup	15	23APR02	13MAY02	104	E	0								
7E52000410	DN	Assemble PCB	5	07MAY02	13MAY02	104	E	0								
7E52000310	DN	Fabricate PCB	10	07MAY02	20MAY02	99	E	0								
7ER5223000	DN	Receive Procure Parts	1	04JUN02	04JUN02	89	E	0								
7E52000350	DN	Test w Simulator/Electrical/Mechanical/Thermal	20	05JUN02	02JUL02	89	E	0								
7E52000360	DN	Test with DAQ Electronics	10	03JUL02	17JUL02	89	E	0								
7E52000370	DN	Test with Subsystem Electronics	10	18JUL02	31JUL02	89	E	0								
7E52000390	DN	Review Eng. Model 1	1	01AUG02	01AUG02	89	E	0								
7E52000430		IA: EM1 Available	0		01AUG02	89		0								
7E52230000		IN: GSE Equipment	0		01AUG02	99		0								
4.1.7.5.2.3 ENGINEERING MODEL 2																
4.1.7.5.2.3.1 PRELIMINARY DESIGN																
7E52000520	DN	Update Part Selection	1	02AUG02	02AUG02	89	E	0								
7E52000440	DN	Modify blocks	10	02AUG02	15AUG02	99	E	0								
7E52000490	DN	Check Thermal & Mechanical	1	05AUG02	05AUG02	117	E	0								
7E52000480	DN	Simulate Board	10	16AUG02	29AUG02	99	E	0								
7E52000500	DN	Review EM2 preliminary design	1	30AUG02	30AUG02	99	E	0								
4.1.7.5.2.3.2 FAB, ASSEMBLY & TEST																
7E52000590	DN	PR Procure Parts	1	05AUG02	05AUG02	89	E	0								
7E52000650	DN	Thermal & Mechanical Engineering	2	03SEP02	04SEP02	204	E	0								
7E52000570	DN	Layout Modification	15	03SEP02	23SEP02	99	E	0								
7E52000580	DN	Fabricate PCB	15	24SEP02	14OCT02	99	E	0								
7ER5232000	DN	Receive Procure Parts	1	28OCT02	28OCT02	89	E	0								
7E52000670	DN	Assemble PCB	5	29OCT02	04NOV02	89	E	0								
7E52000610	DN	Test w Simulator	10	05NOV02	18NOV02	89	E	0								
7E52000630	DN	Test with DAQ Electronics	10	19NOV02	04DEC02	89	E	0								
7E52000640	DN	Test with Subsystem Electronics	5	05DEC02	11DEC02	136	E	0								
7E52000660	DN	Review Eng. Model 2	1	12DEC02	12DEC02	136	E	0								
7E52320000		IA: EM2 Available	1	13DEC02	13DEC02	136		0								
4.1.7.5.2.4 FLIGHT UNITS																
4.1.7.5.2.4.1 QUALIFICATION UNIT DESIGN																
7E52000680	DN	Review parts selection and availability	10	03SEP02	16SEP02	118	E	0								
7E52000690	DN	Complete mechanical and thermal analysis	5	13DEC02	19DEC02	147	E	0								
7E52000700	DN	Review and update req and design documents	5	13DEC02	19DEC02	147	E	0								
7E52000710	DN	Modify Design and Simulate	15	16DEC02	14JAN03	136	E	0								
4.1.7.5.2.4.2 QUALIFICATION UNIT FAB, ASSEMBLY & TEST																
7E52000760	DN	PR Procure Parts	1	17SEP02	17SEP02	118	E	0								
7E52000790	DN	Develop Test Plan	5	15JAN03	22JAN03	171	E	0								
7E52000740	DN	Modify Layout	10	15JAN03	29JAN03	136	E	0								
7E52000750	DN	Fabricate PCB	15	30JAN03	20FEB03	136	E	0								
7ER5242000	DN	Receive Procure Parts	1	18MAR03	18MAR03	118	E	0								
7E52000770	DN	Assemble/Inspect/Coat	15	19MAR03	08APR03	118	E	0								
7E52000800	DN	Functional Test	10	09APR03	22APR03	118	E	0								
7E52000810	DN	Interface test	5	23APR03	29APR03	118	E	0								
7E52000820	DN	Performance Test	10	30APR03	13MAY03	118	E	0								
7E52000830	DN	Ambient pressure thermal cycle test	5	14MAY03	20MAY03	118	E	0								
7E52000850	DN	Thermal Test M&S	5	14MAY03	20MAY03	118	E	0								
7E52000840	DN	Functional Test	5	21MAY03	28MAY03	118	E	0								
7E52420000		IA: Qual Unit	0		28MAY03	118		0								
4.1.7.5.2.4.3 FLIGHT UNIT FAB, ASSEMBLY & TEST																
7E52000900	DN	Update Test Plan	2	29MAY03	30MAY03	164	E	0								
7E52000860	DN	Fabrication PWB	15	29MAY03	18JUN03	134	E	0								
7E52000870	DN	Assembly/Inspect/Coat	15	19JUN03	10JUL03	134	E	0								
7E52000890	DN	Preliminary Test	10	03JUL03	17JUL03	136	E	0								
7E52000910	DN	Functional Test	10	11JUL03	24JUL03	136	E	0								
7E52000920	DN	Interface test	4	18JUL03	23JUL03	136	E	0								
7E52000930	DN	Performance Test	10	21JUL03	01AUG03	136	E	0								
7E52000940	DN	Ambient pressure thermal cycle test	5	22JUL03	28JUL03	149	E	0								
7E52000980	DN	Thermal Test M&S	5	04AUG03	08AUG03	136	E	0								
7E52000950	DN	Functional Test	5	11AUG03	15AUG03	136	E	0								
7E52000960		IA: 1st Flight Unit Available	0		12AUG03	136		0								
7E52000970		IA: Last Flight Unit Available	0		15AUG03	138		0								
4.1.7.5.3 HOUSEKEEPING BOARD																
4.1.7.5.3.2 ENGINEERING MODEL 1																
4.1.7.5.3.2.1 CONCEPTUAL DESIGN																
7E53000210		IN: Front End System Interface Defined	0		03JUN02*	0		0								
7E53000160	DL	Produce Preliminary Interface Document	1	04JUN02*	04JUN02	0	E	0								
7E53000170	DL	Design blocks	30	05JUN02	17JUL02	0	E	0								
7E53000180	DL	Produce Conceptual Design Document	30	18JUL02	28AUG02	0	E	0								
7E53000190	DL	Interim Parts Evaluation and Selection	3	29AUG02	03SEP02	0	E	0								
7E53000200		Complete Conceptual Design	0		03SEP02	0		0								
4.1.7.5.3.2.2 PRELIMINARY DESIGN																
7E53000260	DL	Engineer Thermal & Mechanical	5	04SEP02	10SEP02	18	E	0								
7E53000270	DL	Produce Preliminary Design Documents	8	04SEP02	13SEP02	15	E	0								
7E53000220	DL	Design Board Schematics	10	04SEP02	17SEP02	0	E	0								
7E53000230	DL	Design/Simulate blocks VHDL	10	04SEP02	17SEP02	0	E	0								
7E53000240	DL	Synthesis FPGA's	3	18SEP02	20SEP02	0	E	0								
7E53000250	DL	Simulate Board	10	23SEP02	04OCT02	0	E	0								
7E53000280	DL	Review EM1 preliminary design	1	07OCT02	07OCT02	0	E	0								

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
4.1.7.5.3.2.3 FAB/ASSEMBLY/TEST															
7E53000320	DL	PR Procure Parts	1	08OCT02	08OCT02	0	E	0							
7E53000330	DL	Assemble Test-setup	1	08OCT02	08OCT02	29	E	0							
7E53000400	DL	Procure Equipment	1	08OCT02	08OCT02	29	E	0							
7E53000290	DL	Prepare manufacturing traveler	2	08OCT02	09OCT02	28	E	0							
7E53000380	DL	Thermal & Mechanical Engineering	8	08OCT02	17OCT02	62	E	0							
7E53000300	DL	Layout Board	10	08OCT02	21OCT02	10	E	0							
7E53000340	DL	Software for Test-Setup	15	08OCT02	28OCT02	15	E	0							
7E53000310	DL	Fabricate PCB	10	22OCT02	04NOV02	10	E	0							
7E53000410	DL	Assemble PCB	10	22OCT02	04NOV02	10	E	0							
7ER5323000	DL	Receive Procure Parts	1	18NOV02	18NOV02	0	E	0							
7E53000350	DL	Test w Simulator/Electrical/Mechanical/Thermal	20	19NOV02	18DEC02	0	E	0							
7E53000360	DL	Test with DAQ Electronics	10	19DEC02	10JAN03	0	E	0							
7E53000370	DL	Test with Subsystem Electronics	10	13JAN03	27JAN03	0	E	0							
7E53000390	DL	Review Eng. Model 1	1	28JAN03	28JAN03	0	E	0							
7E53000430		IA: SIU Housekeeping Board EM1 Available	0		28JAN03	0		0							
4.1.7.5.3.3 ENGINEERING MODEL 2															
4.1.7.5.3.3.1 PRELIMINARY DESIGN															
7E53000520	DL	Update Part Selection	1	29JAN03	29JAN03	0	E	0							
7E53000440	DL	Modify blocks	10	29JAN03	11FEB03	1	E	0							
7E53000490	DL	Check Thermal & Mechanical	10	30JAN03	12FEB03	0	E	0							
7E53000500	DL	Review EM2 preliminary design	1	13FEB03	13FEB03	0	E	0							
4.1.7.5.3.3.2 FAB, ASSEMBLY & TEST															
7E53000590	DL	PR Procure Parts	1	30JAN03	30JAN03	20	E	0							
7E53000650	DL	Thermal & Mechanical Engineering	2	14FEB03	18FEB03	62	E	0							
7E53000570	DL	Layout Modification	5	14FEB03	21FEB03	19	E	0							
7E53000580	DL	Fabricate PCB	15	24FEB03	14MAR03	19	E	0							
7ER5332000	DL	Receive Procure Parts	1	13MAR03	13MAR03	20	E	0							
7E53000670	DL	Assemble PCB	5	17MAR03	21MAR03	19	E	0							
7E53000610	DL	Test w Simulator	10	24MAR03	04APR03	19	E	0							
7E53000640	DL	Test with Subsystem Electronics	10	07APR03	18APR03	19	E	0							
7E53000660	DL	Review Eng. Model 2	1	21APR03	21APR03	19	E	0							
7E53320000		IA: SIU Housekeeping Board EM2 Available	0		21APR03	125		0							
4.1.7.5.3.4 FLIGHT UNITS															
4.1.7.5.3.4.1 QUALIFICATION UNIT DESIGN															
7E53000680	DL	Review parts selection and availability	20	14FEB03	14MAR03	0	E	0							
7E53000690	DL	Complete mechanical and thermal analysis	5	22APR03	28APR03	29	E	0							
7E53000700	DL	Review and update req and design documents	5	22APR03	28APR03	29	E	0							
7E53000710	DL	Modify Design and Simulate	15	22APR03	12MAY03	19	E	0							
7E53000720		Complete Qualification Unit Design	0		12MAY03	19		0							
4.1.7.5.3.4.2 QUALIFICATION UNIT FAB, ASSEMBLY & TEST															
7E53000760	DL	PR Procure Parts	1	17MAR03	17MAR03	0	E	0							
7E53000740	DL	Modify Layout	10	13MAY03	27MAY03	19	E	0							
7E53000790	DL	Develop Test Plan	10	13MAY03	27MAY03	59	E	0							
7E53000750	DL	Fabricate PCB	30	28MAY03	09JUL03	19	E	0							
7ER5342000	DL	Receive Procure Parts	1	05AUG03	05AUG03	0	E	0							
7E53000770	DL	Assemble/Inspect/Coat	10	06AUG03	19AUG03	0	E	0							
7E53000800	DL	Functional Test	20	20AUG03	17SEP03	0	E	0							
7E53000810	DL	Interface test	5	18SEP03	24SEP03	0	E	0							
7E53000820	DL	Performance Test	30	25SEP03	05NOV03	0	E	0							
7E53000830	DL	Ambient pressure thermal cycle test	5	06NOV03	12NOV03	0	E	0							
7E53000850	DL	Procure Equipment for Thermal Test	5	06NOV03	12NOV03	0	E	0							
7E53000840	DL	Functional Test	5	13NOV03	19NOV03	0	E	0							
7E53000730		IA: SIU Housekeeping Board Deliver Qual	0		19NOV03	0		0							
4.1.7.5.3.4.3 FLIGHT UNIT FAB, ASSEMBLY & TEST															
7E53000900	DL	Update Test Plan	2	20NOV03	21NOV03	28	E	0							
7E53000860	DL	Fabrication PWB	15	20NOV03	12DEC03	0	E	0							
7E53000870	DL	Assembly/Inspect/Coat	15	15DEC03	13JAN04	0	E	0							
7E53000890	DL	Preliminary Test	20	07JAN04	04FEB04	0	E	0							
7E53000910	DL	Functional Test	20	14JAN04	11FEB04	0	E	0							
7E53000920	DL	Interface test	4	22JAN04	27JAN04	0	E	0							
7E53000930	DL	Performance Test	20	23JAN04	20FEB04	0	E	0							
7E53000940	DL	Ambient pressure thermal cycle test	5	26JAN04	30JAN04	23	E	0							
7E53000980	DL	Procure Equipment for Thermal Test	5	23FEB04	27FEB04	0	E	0							
7E53000950	DL	Functional Test	10	01MAR04	12MAR04	0	E	0							
7E53000960		IA: 1st Flight Unit Available	0		02MAR04	8		0							
7E53000970		IA: Last Flight Unit Available	0		12MAR04	0		0							
4.1.7.5.4 SIU BACKPLANE															
4.1.7.5.4.1 ENGINEERING MODEL 1															
4.1.7.5.4.1.1 CONCEPTUAL DESIGN															
7E54000000	DN	Produce Conceptual Design	110	01AUG02*	15JAN03	0	E	0							
4.1.7.5.4.1.2 PRELIMINARY DESIGN															
7E54000010	DN	Produce Preliminary Design	20	16JAN03	13FEB03	0	E	0							
4.1.7.5.4.1.3 FAB/ASSEMBLY/TEST															
7E54000030	DN	PR Procure Parts	1	14FEB03	14FEB03	0	E	0							
7E54000020	DN	Fabricate	15	14FEB03	07MAR03	20	E	0							
7ER5413000	DN	Receive Procure Parts	1	28MAR03	28MAR03	0	E	0							
7E54000040	DN	Assemble	5	31MAR03	04APR03	0	E	0							
7E54000050	DN	Test	20	07APR03	02MAY03	0	E	0							
7E54000060		IA: EM1 Backplane Available	0		02MAY03	0		0							
4.1.7.5.4.2 ENGINEERING MODEL 2															
4.1.7.5.4.2.1 CONCEPTUAL DESIGN															
7E54000070	DN	Produce Conceptual Design	10	05MAY03	16MAY03	0	E	0							
4.1.7.5.4.2.2 PRELIMINARY DESIGN															
7E54000080	DN	Produce Preliminary Design	5	19MAY03	23MAY03	0	E	0							
4.1.7.5.4.2.3 FAB/ASSEMBLY/TEST															
7E54000100	DN	PR Procure Parts	1	27MAY03	27MAY03	0	E	0							
7E54000090	DN	Fabricate	15	27MAY03	16JUN03	20	E	0							
7ER5423000	DN	Receive Procure Parts	1	08JUL03	08JUL03	0	E	0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
7E54000110	DN	Assemble	5	09JUL03	15JUL03	0	E	0							
7E54000120	DN	Test	10	16JUL03	29JUL03	0	E	0							
7E54000130		IA: EM2 Backplane Available	0		29JUL03	0		0							
4.1.7.5.4.3 FLIGHT UNITS															
4.1.7.5.4.3.1 QUALIFICATION UNIT DESIGN															
7E54000140	DN	Update Design	5	30JUL03	05AUG03	0	E	0							
4.1.7.5.4.3.2 QUALIFICATION UNIT FAB, ASSEMBLY & TEST															
7E54000160	DN	PR Procure Parts	1	06AUG03	06AUG03	0	E	0							
7E54000150	DN	Fabricate	15	06AUG03	26AUG03	55	E	0							
7ER5432000	DN	Receive Procure Parts	1	29OCT03	29OCT03	0	E	0							
7E54000170	DN	Assemble	10	30OCT03	12NOV03	0	E	0							
7E54000180	DN	Test	10	13NOV03	26NOV03	0	E	0							
7E54000190		IA: Qual Unit Available	0		26NOV03	0		0							
4.1.7.5.4.3.3 FLIGHT UNIT FAB, ASSEMBLY & TEST															
7E54000200	DN	Fabricate	10	01DEC03	12DEC03	51	E	0							
7E54000210	DN	Procure Parts	10	01DEC03	12DEC03	41	E	0							
7E54000220	DN	Assemble	10	15DEC03	06JAN04	41	E	0							
7E54000230	DN	Test	5	07JAN04	13JAN04	41	E	0							
7E54000240		IA: Flight Unit Available	0		13JAN04	41		0							
4.1.7.6 POWER CONDITIONING															
7E20007870		Major Review Requir./Conceptual Design	0		16JAN02	54		0							
7E20007880		Major Review Preliminary Design	0		07MAY02	169		0							
7E20007890		Major Review Final Design	0		06FEB03	47		0							
7E20007900		Major Review Flight Readiness	0		05JAN04	9		0							
4.1.7.6.1 DESIGN REQUISITES															
7E20007910		Derive Requirements	10	02APR01A	13APR01A			100							
7E20007920		Power System Conceptual Design	80	02AUG01A	26NOV01	99		78							
7E61000000	DL	Power Supply Studies	120	27NOV01	24MAY02	99	E	0							
4.1.7.6.2 POWER SWITCHING CARD (PSC)															
4.1.7.6.2.1 ENGINEERING MODEL 1															
4.1.7.6.2.1.1 CONCEPTUAL DESIGN															
7E20007960	DL	Produce Preliminary Interface Document	15	28JAN02*	15FEB02	105	E	0							
7E20008020	DL	Design blocks	45	19FEB02	22APR02	105	E	0							
7E20008030	DL	Produce Conceptual Design Document	3	23APR02	25APR02	105	E	0							
7E20008040	DL	Interim parts evaluation and selection complete	10	26APR02	09MAY02	105	E	0							
7E20008050		Conceptual Design Complete	0		09MAY02	105		0							
4.1.7.6.2.1.2 PRELIMINARY DESIGN															
7E20008060	DL	Design PSC-ICCPU Interface block	10	10MAY02	23MAY02	105	E	0							
7E20008120	DL	Engineer Thermal & Mechanical	30	10MAY02	21JUN02	153	E	0							
7E20008080	DL	Design PSC-PCC Interface block	20	24MAY02	21JUN02	105	E	0							
7E20008090	DL	Design PSC-S/V Interface block	25	24JUN02	29JUL02	105	E	0							
7E20008100	DL	Design Main block	20	30JUL02	26AUG02	105	E	0							
7E20008110	DL	Produce Preliminary Design Documents	3	27AUG02	29AUG02	105	E	0							
7E20008130	DL	Review EM1 preliminary design	2	30AUG02	03SEP02	105	E	0							
4.1.7.6.2.1.3 FAB/ASSEMBLY/TEST															
7E20008180	DL	PR Procure Parts	1	10MAY02	10MAY02	150	E	0							
7ER6213000	DL	Receive Procure Parts	1	05AUG02	05AUG02	150	E	0							
7E20008150	DL	Prepare manufacturing traveler	2	04SEP02	05SEP02	128	E	0							
7E20008140	DL	Layout	15	04SEP02	24SEP02	115	E	0							
7E20008170	DL	Fabricate PCB	15	04SEP02	24SEP02	105	E	0							
7E20008190	DL	Assemble/Inspect	10	25SEP02	08OCT02	105	E	0							
7E20008200	DL	Board level test	20	09OCT02	05NOV02	105	E	0							
7E20008260	DL	Test with Sub-Systems	20	06NOV02	05DEC02	105	E	0							
7E20008320		Review Eng. Model 1	1	06DEC02	06DEC02	105		0							
7E32130000		IA: EM1 Avail	0		06DEC02	105		0							
4.1.7.6.2.2 ENGINEERING MODEL 2															
4.1.7.6.2.2.1 PRELIMINARY DESIGN															
7E20008350	DN	Update interface/parts/requiremnts specification	2	09DEC02	10DEC02	105	E	0							
7E20008400	DN	Check Thermal & Mechanical	2	09DEC02	10DEC02	105	E	0							
7E20008380	DN	Modify blocks	10	09DEC02	20DEC02	111	E	0							
7E20008410		Review EM2 preliminary design	1	23DEC02	23DEC02	111		0							
4.1.7.6.2.2.2 FAB, ASSEMBLY & TEST															
7E20008460	DN	PR Procure Parts	1	11DEC02	11DEC02	105	E	0							
7E20008430	DN	Modify manufacturing travelers	2	02JAN03	03JAN03	134	E	0							
7E20008420	DN	Layout	15	02JAN03	23JAN03	121	E	0							
7E20008450	DN	Fabricate PCB	15	02JAN03	23JAN03	111	E	0							
7ER6222000	DN	Receive Procure Parts	1	31JAN03	31JAN03	105	E	0							
7E20008470	DN	Assemble/Inspect	10	03FEB03	14FEB03	105	E	0							
7E20008480	DN	Board level test	10	18FEB03	03MAR03	105	E	0							
7E20008530	DN	Thermal & Mechanical Test	10	04MAR03	17MAR03	105	E	0							
7E20008540	DN	Test data with Sub-Systems	20	18MAR03	14APR03	105	E	0							
7E20008600		Review Eng. Model 2	1	15APR03	15APR03	105		0							
7E62220000		IA: EM2 Available	0		15APR03	261		0							
4.1.7.6.2.3 FLIGHT UNITS															
4.1.7.6.2.3.1 QUALIFICATION UNIT DESIGN															
7E20008620	DN	Review parts selection and availability	5	02JAN03	08JAN03	135	E	0							
7E20008650	DN	Update manufacturing traveler	2	16APR03	17APR03	106	E	0							
7E20008680	DN	Check Thermal & Mechanical	2	16APR03	17APR03	106	E	0							
7E20008630	DN	Complete mechanical and thermal analysis	3	16APR03	18APR03	105	E	0							
7E20008640	DN	Review and update instrument internal interface	3	16APR03	18APR03	105	E	0							
7E20008670	DN	Modify Design	20	21APR03	16MAY03	105	E	0							
4.1.7.6.2.3.2 QUALIFICATION UNIT FAB, ASSEMBLY & TEST															
7E20008710	DN	PR Procure Parts	1	09JAN03	09JAN03	135	E	0							
7ER6232000	DN	Receive Procure Parts	1	02MAY03	02MAY03	135	E	0							
7E20008690	DN	Modify Layout	10	19MAY03	02JUN03	130	E	0							
7E20008700	DN	Fabricate PCB	20	19MAY03	16JUN03	105	E	0							
7E20008720	DN	Assemble/Inspect/Coat	10	17JUN03	30JUN03	105	E	0							
7E20008760	DN	Develop Test Plan	5	01JUL03	08JUL03	105	E	0							
7E20008770	DN	Functional Test	5	09JUL03	15JUL03	105	E	0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
7E20008780	DN	Interface test	5	16JUL03	22JUL03	105	E	0							
7E20008790	DN	Performance Test	5	23JUL03	29JUL03	105	E	0							
7E20008800	DN	Ambient pressure thermal cycle test	3	30JUL03	01AUG03	105	E	0							
7E20008810	DN	Functional Test	5	04AUG03	08AUG03	105	E	0							
4.1.7.6.2.3.3 FLIGHT UNIT FAB, ASSEMBLY & TEST															
7E20008830	DN	Fabrication PWB	15	11AUG03	29AUG03	105	E	0							
7E20008840	DN	Assembly/Inspect/Coat	5	02SEP03	08SEP03	105	E	0							
7E20008870	DN	Preliminary Test	5	09SEP03	15SEP03	105	E	0							
7E20008900	DN	Functional Test	1	16SEP03	16SEP03	105	E	0							
7E20008910	DN	Interface test	2	17SEP03	18SEP03	105	E	0							
7E20008920	DN	Performance Test	2	19SEP03	22SEP03	105	E	0							
7E20008930	DN	Ambient pressure thermal cycle test	3	23SEP03	25SEP03	105	E	0							
7E20008940	DN	Functional Test	5	26SEP03	02OCT03	105	E	0							
4.1.7.6.3 GENERIC POWER CONDITIONING CARD (GENERIC-PCC)															
4.1.7.6.3.1 CONCEPTUAL DESIGN															
7E20009050		Produce Conceptual Design Document	110	02AUG01A	10DEC01	9		70							
7E20008980		Produce Preliminary Interface Document	10	11DEC01	02JAN02	9		0							
7E20009000	DL	Design PCC-housekeeping Interface block	10	03JAN02	16JAN02	9	E	0							
7E20009010	DL	Design PCC-power switch Interface block	5	17JAN02	24JAN02	9	E	0							
7E20009020	DL	Design PCC-CPU Interface block	5	25JAN02	31JAN02	9	E	0							
7E20009030	DL	Design Main block	30	01FEB02	15MAR02	9	E	0							
7E20009040	DL	Design sub-system specific blocks	5	18MAR02	22MAR02	9	E	0							
7E20009060	DL	Interim parts evaluation and selection complete	1	25MAR02	25MAR02	9	E	0							
4.1.7.6.3.2 PRELIMINARY DESIGN															
7E20009090	DL	Produce Preliminary Design Documents	5	26MAR02	01APR02	34	E	0							
7E20009100	DL	Engineer Thermal & Mechanical	20	26MAR02	22APR02	19	E	0							
7E20009080	DL	Design blocks	30	26MAR02	06MAY02	9	E	0							
7E20009110	DL	Review preliminary design	1	07MAY02	07MAY02	9	E	0							
4.1.7.6.3.3 FAB, ASSEMBLY & TEST															
7E20009150	DL	PR Procure Parts	1	26MAR02	26MAR02	35	E	0							
7E20009120	DL	Receive Procure Parts	1	06MAY02	06MAY02	35	E	0							
7E20009140	DL	Layout	10	08MAY02	21MAY02	9	E	0							
7E20009160	DL	Fabricate PCB	15	22MAY02	12JUN02	9	E	0							
7E63300000	DL	Assemble PCB	10	13JUN02	26JUN02	9	E	0							
7E20009220	DL	Stand Alone test	30	27JUN02	08AUG02	9	E	0							
7E20009240	DL	Test with sub-systems (TEM/SIU/etc)	30	09AUG02	20SEP02	9	E	0							
7E63300010	IA:	Generic PCC	0		23SEP02	9		0							
4.1.7.6.5 TKR/CAL-TEM POWER CONDITIONING CARD															
4.1.7.6.5.1 ENGINEERING MODEL 1															
4.1.7.6.5.1.1 PRELIMINARY DESIGN															
7E65000000	DL	Adopt Generic PCC Design	10	24SEP02	07OCT02	16	E	0							
7E65000010	DL	Review EM1 preliminary design	1	08OCT02	08OCT02	16	E	0							
4.1.7.6.5.1.2 FAB, ASSEMBLY & TEST															
7E65000040	DL	Fabricate / Assemble / Test	10	09OCT02	22OCT02	16	E	0							
7E65000080	DL	Test in System	10	23OCT02	05NOV02	16	E	0							
7E65000090	DL	Review Eng. Model 1	1	06NOV02	06NOV02	16	E	0							
7E65000100	IA:	EM1 Available	0		06NOV02	364		0							
4.1.7.6.5.2 ENGINEERING MODEL 2															
4.1.7.6.5.2.1 PRELIMINARY DESIGN															
7E65000110	DL	Update requirements/Interface/Parts	10	07NOV02	20NOV02	16	E	0							
7E65000130	DL	Check Thermal & Mechanical	5	25NOV02	29NOV02	26	E	0							
7E65000120	DL	Modify/Simulate blocks	15	25NOV02	13DEC02	16	E	0							
7E65000140	DL	Review EM2 preliminary design	1	16DEC02	16DEC02	16	E	0							
4.1.7.6.5.2.2 FAB, ASSEMBLY & TEST															
7E65000170	DL	Fabricate / Assemble / Test	20	17DEC02	23JAN03	16	E	0							
7E65000190	DL	Stand Alone test	10	24JAN03	06FEB03	16	E	0							
7E65000200	DL	Thermal & Mechanical Test	3	07FEB03	11FEB03	33	E	0							
7E65000210	DL	Test in Subsystem	20	07FEB03	07MAR03	16	E	0							
7E65000220	DL	Review Eng. Model 2	1	10MAR03	10MAR03	16	E	0							
7E65000230	AV:	Flight TEM PS Assembly Mod A/B for I&T	0		10MAR03	112		0							
4.1.7.6.5.3 FLIGHT UNITS															
4.1.7.6.5.3.1 QUALIFICATION UNIT DESIGN															
7E65000260	DL	Review and update instrument internal interface	2	11MAR03	12MAR03	24	E	0							
7E65000240	DL	Review parts selection and availability	5	11MAR03	17MAR03	21	E	0							
7E65000250	DL	Complete mechanical and thermal analysis	10	11MAR03	24MAR03	16	E	0							
7E65000270	DL	Modify Design and Simulate	10	25MAR03	07APR03	16	E	0							
4.1.7.6.5.3.2 QUALIFICATION UNIT FAB, ASSEMBLY & TEST															
7E65000310	DL	TEM PCC Fab/Assemble/Coat	90	08APR03	13AUG03	16	E	0							
7E65320000	DL	TKR PCC Fab/Assemble/Coat	90	08APR03	13AUG03	16	E	0							
7E65320010	DL	CAL PCC Fab/Assemble/Coat	90	08APR03	13AUG03	16	E	0							
7E65000320	DL	Qualification Unit Board Level Testing	15	14AUG03	04SEP03	16	E	0							
7E65000330	DL	Ambient pressure thermal cycle test	3	05SEP03	09SEP03	29	E	0							
7E65000340	DL	Functional Test	10	10SEP03	23SEP03	29	E	0							
7E65000350	AV:	Flight TEM PS Assembly Mod 1/2 for I&T	0		23SEP03	29		0							
4.1.7.6.5.3.3 FLIGHT UNIT FAB, ASSEMBLY & TEST															
7E65000370	DL	TEM PCC Fab/Assemble/Coat/Test	66	05SEP03	09DEC03	16	E	0							
7E65330000	DL	TKR PCC Fab/Assemble/Coat/Test	66	05SEP03	09DEC03	21	E	0							
7E65330010	DL	CAL PCC Fab/Assemble/Coat/Test	66	05SEP03	09DEC03	21	E	0							
7E65000420	AV:	Flight TEM PS Assemble Mod 3/4 for I&T	0		05JAN04	9		0							
7E65000430	AV:	Flight TEM PS Assemble Mod 5/6 for I&T	0		05JAN04	19		0							
7E65000440	AV:	Flight TEM PS Assemble Mod 7/8 for I&T	0		12JAN04	24		0							
7E65000450	AV:	Flight TEM PS Assemble Mod 9/10 for I&T	0		20JAN04	29		0							
7E65000460	AV:	Flight TEM PS Assemble Mod 11/12 for I&T	0		27JAN04	32		0							
7E65000470	AV:	Flight TEM PS Assemble Mod 13/14 for I&T	0		03FEB04	36		0							
7E65000480	AV:	Flight TEM PS Assemble Mod 15/16 for I&T	0		10FEB04	36		0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
4.1.7.6.6 ACD-TEM POWER CONDITIONING CARD (ACDTEM-PCC)															
4.1.7.6.6.1 ENGINEERING MODEL 1															
4.1.7.6.6.1.1 PRELIMINARY DESIGN															
7E6600000	DL	Adopt Generic PCC Design	10	24SEP02	07OCT02	112	E	0							
7E6600010	DL	Review EM1 preliminary design	1	08OCT02	08OCT02	112	E	0							
4.1.7.6.6.1.2 FAB, ASSEMBLY & TEST															
7E6600020	DL	Fabricate / Assemble / Test	20	09OCT02	05NOV02	112	E	0							
7E6600030	DL	Test in System	30	06NOV02	19DEC02	112	E	0							
7E6600040	DL	Review Eng. Model 1	1	20DEC02	20DEC02	112	E	0							
7E6600050		IA: EM1 Available	0		20DEC02	334		0							
4.1.7.6.6.2 ENGINEERING MODEL 2															
4.1.7.6.6.2.1 PRELIMINARY DESIGN															
7E6600060	DL	Update requirements/Interface/Parts	5	23DEC02	07JAN03	112	E	0							
7E6600080	DL	Check Thermal & Mechanical	5	08JAN03	14JAN03	122	E	0							
7E6600070	DL	Modify/Simulate blocks	15	08JAN03	29JAN03	112	E	0							
7E6600090	DL	Review EM2 preliminary design	1	30JAN03	30JAN03	112	E	0							
4.1.7.6.6.2.2 FAB, ASSEMBLY & TEST															
7E6600100	DL	Fabricate / Assemble / Test	20	31JAN03	28FEB03	112	E	0							
7E6600110	DL	Stand Alone test	10	03MAR03	14MAR03	112	E	0							
7E6600120	DL	Thermal & Mechanical Test	3	17MAR03	19MAR03	129	E	0							
7E6600130	DL	Test in Subsystem	20	17MAR03	11APR03	112	E	0							
7E6600140	DL	Review Eng. Model 2	1	14APR03	14APR03	112	E	0							
7E6600150		IA: ACD-TEM Power Conditioning Card EM2 Avail	0		14APR03	262		0							
4.1.7.6.6.3 FLIGHT UNITS															
4.1.7.6.6.3.1 QUALIFICATION UNIT DESIGN															
7E6600180	DL	Review and update instrument internal interface	2	15APR03	16APR03	120	E	0							
7E6600160	DL	Review parts selection and availability	5	15APR03	21APR03	117	E	0							
7E6600170	DL	Complete mechanical and thermal analysis	10	15APR03	28APR03	112	E	0							
7E6600190	DL	Modify Design and Simulate	10	29APR03	12MAY03	112	E	0							
4.1.7.6.6.3.2 QUALIFICATION UNIT FAB, ASSEMBLY & TEST															
7E6600200	DL	TEM PCC Fab/Assemble/Coat	60	13MAY03	06AUG03	112	E	0							
7E6600250	DL	ACD PCC Fab/Assemble/Coat	60	13MAY03	06AUG03	112	E	0							
7E6600210	DL	Qualification Unit Board Level Testing	15	07AUG03	27AUG03	112	E	0							
7E6600220	DL	Ambient pressure thermal cycle test	3	28AUG03	02SEP03	112	E	0							
7E6600230	DL	Functional Test	10	03SEP03	16SEP03	112	E	0							
7E6600240		IA: Qual Unit Available	0		16SEP03	112		0							
4.1.7.6.6.3.3 FLIGHT UNIT FAB, ASSEMBLY & TEST															
7E6600270	DL	TEM PCC Fab/Assemble/Coat	60	17SEP03	11DEC03	112	E	0							
7E6600330	DL	ACD PCC Fab/Assemble/Coat	60	17SEP03	11DEC03	112	E	0							
7E6600280	DL	Flight Unit Board Level Acceptance Testing	1	12DEC03	12DEC03	112	E	0							
7E6600290	DL	Ambient pressure thermal cycle test	3	15DEC03	17DEC03	112	E	0							
7E6600300	DL	Functional Test	10	18DEC03	09JAN04	112	E	0							
7E6600310		IA: Flight Unit Available	0		09JAN04	112		0							
4.1.7.6.7 DATA CPU POWER CONDITIONING CARD (DCPU-PCC)															
4.1.7.6.7.1 ENGINEERING MODEL 1															
4.1.7.6.7.1.1 PRELIMINARY DESIGN															
7E6700000	DL	Adopt Generic PCC Design	10	24SEP02	07OCT02	9	E	0							
7E6700010	DL	Review EM1 preliminary design	1	08OCT02	08OCT02	9	E	0							
4.1.7.6.7.1.2 FAB, ASSEMBLY & TEST															
7E6700020	DL	Fabricate / Assemble / Test	20	09OCT02	05NOV02	9	E	0							
7E6700030	DL	Test in System	30	06NOV02	19DEC02	9	E	0							
7E6700040	DL	Review Eng. Model 1	1	20DEC02	20DEC02	9	E	0							
7E6700050		IA: EM1 Available	0		20DEC02	334		0							
4.1.7.6.7.2 ENGINEERING MODEL 2															
4.1.7.6.7.2.1 PRELIMINARY DESIGN															
7E6700060	DL	Update requirements/Interface/Parts	10	23DEC02	14JAN03	9	E	0							
7E6700080	DL	Check Thermal & Mechanical	5	15JAN03	22JAN03	19	E	0							
7E6700070	DL	Modify/Simulate blocks	15	15JAN03	05FEB03	9	E	0							
7E6700090	DL	Review EM2 preliminary design	1	06FEB03	06FEB03	9	E	0							
4.1.7.6.7.2.2 FAB, ASSEMBLY & TEST															
7E6700100	DL	Fabricate / Assemble / Test	20	07FEB03	07MAR03	9	E	0							
7E6700110	DL	Stand Alone test	10	10MAR03	21MAR03	9	E	0							
7E6700120	DL	Thermal & Mechanical Test	3	24MAR03	26MAR03	26	E	0							
7E6700130	DL	Test in Subsystem	20	24MAR03	18APR03	9	E	0							
7E6700140	DL	Review Eng. Model 2	1	21APR03	21APR03	9	E	0							
7E6700150		IA: EM2 Available	0		21APR03	257		0							
4.1.7.6.7.3 FLIGHT UNITS															
4.1.7.6.7.3.1 QUALIFICATION UNIT DESIGN															
7E6700180	DL	Review and update instrument internal interface	2	22APR03	23APR03	17	E	0							
7E6700160	DL	Review parts selection and availability	5	22APR03	28APR03	14	E	0							
7E6700170	DL	Complete mechanical and thermal analysis	10	22APR03	05MAY03	9	E	0							
7E6700190	DL	Modify Design and Simulate	10	06MAY03	19MAY03	9	E	0							
4.1.7.6.7.3.2 QUALIFICATION UNIT FAB, ASSEMBLY & TEST															
7E6700200	DL	TEM PCC Fab/Assemble/Coat	60	20MAY03	13AUG03	9	E	0							
7E6700250	DL	Data CPU PCC Fab/Assemble/Coat	60	20MAY03	13AUG03	9	E	0							
7E6700210	DL	Qualification Unit Board Level Testing	15	14AUG03	04SEP03	9	E	0							
7E6700220	DL	Ambient pressure thermal cycle test	3	05SEP03	09SEP03	9	E	0							
7E6700230	DL	Functional Test	10	10SEP03	23SEP03	9	E	0							
7E6700240		IA: Qual Unit Available	0		23SEP03	9		0							
4.1.7.6.7.3.3 FLIGHT UNIT FAB, ASSEMBLY & TEST															
7E6700260	DL	TEM PCC Fab/Assemble/Coat	60	24SEP03	18DEC03	9	E	0							
7E6700310	DL	Data CPU PCC Fab/Assemble/Coat	60	24SEP03	18DEC03	9	E	0							
7E6700270	DL	Flight Unit Board Level Acceptance Testing	1	19DEC03	19DEC03	9	E	0							
7E6700280	DL	Ambient pressure thermal cycle test	3	22DEC03	02JAN04	9	E	0							
7E6700290	DL	Functional Test	1	05JAN04	05JAN04	9	E	0							
7E6700300		IA: Flight Unit Available	0		05JAN04	9		0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
4.1.7.7 ENCLOSURES															
4.1.7.7.1 TKR/CAL ENCLOSURE															
4.1.7.7.1.1 ENGINEERING MODEL 1															
4.1.7.7.1.1.1 CONCEPTUAL DESIGN															
7E71000000	DL	Produce Preliminary Interface Document	5	03SEP02*	09SEP02	0	E	0							
7E71000010	DL	Produce Preliminary Conceptual Design	20	10SEP02	07OCT02	0	E	0							
7E71000020	DL	Engineer Thermal & Mechanical	10	08OCT02	21OCT02	0	E	0							
7E71000030	DL	Produce Conceptual Design	4	22OCT02	25OCT02	0	E	0							
7E71000050	DL	Interim parts evaluation and selection complete	5	28OCT02	01NOV02	0	E	0							
4.1.7.7.1.1.2 PRELIMINARY DESIGN															
7E71000070	DL	Engineer Thermal & Mechanical	20	04NOV02	03DEC02	20	E	0							
7E71000060	DL	Produce Preliminary Design	40	04NOV02	09JAN03	0	E	0							
7E71000080	DL	Review EM1 preliminary design	1	10JAN03	10JAN03	0	E	0							
4.1.7.7.1.1.3 FAB, ASSEMBLY & TEST															
7E71000100	DL	PR Procure Parts	1	13JAN03	13JAN03	0	E	0							
7ER7113000	DL	Receive Procure Parts	1	27FEB03	27FEB03	0	E	0							
7E71000110	DL	Assemble/Inspect	5	28FEB03	06MAR03	0	E	0							
7E71000120	DL	Review Eng. Model 1	1	07MAR03	07MAR03	0	E	0							
4.1.7.7.1.2 QUALIFICATION UNIT															
4.1.7.7.1.2.1 DESIGN															
7E71000130	DL	Review parts selection and availability	5	10MAR03	14MAR03	35	E	0							
7E71000150	DL	Review and update instrument internal interface	5	10MAR03	14MAR03	35	E	0							
7E71000140	DL	Complete mechanical and thermal analysis	40	10MAR03	02MAY03	0	E	0							
7E71000170	DL	Modify Design	30	05MAY03	16JUN03	0	E	0							
7E71000180	DL	Check Thermal & Mechanical	2	17JUN03	18JUN03	0	E	0							
4.1.7.7.1.2.2 FAB & ASSEMBLY															
7E71000190	DL	PR Procure Parts	1	19JUN03	19JUN03	0	E	0							
7ER7122000	DL	Receive Procure Parts	1	12SEP03	12SEP03	0	E	0							
7E71000200	DL	Assemble/Inspect	1	15SEP03	15SEP03	0	E	0							
7E71220000		IA: Qual Unit Available	0		15SEP03	0		0							
4.1.7.7.1.3 FLIGHT UNIT															
7E71000210	DL	Fabrication	20	16SEP03	13OCT03	7	E	0							
7E71000220	DL	Assemble/Inspect	20	14OCT03	10NOV03	7	E	0							
7E71300000		IA: Flight Unit Available	0		10NOV03	7		0							
4.1.7.7.2 ACD-TRG ENCLOSURE															
4.1.7.7.2.1 ENGINEERING MODEL 1															
4.1.7.7.2.1.1 CONCEPTUAL DESIGN															
7E72000000	DL	Produce Preliminary Interface Document	5	01OCT02*	07OCT02	20	E	0							
7E72000010	DL	Produce Preliminary Conceptual Design	20	08OCT02	04NOV02	20	E	0							
7E72000020	DL	Engineer Thermal & Mechanical	5	05NOV02	11NOV02	20	E	0							
7E72000030	DL	Produce Conceptual Design	4	12NOV02	15NOV02	20	E	0							
7E72000040	DL	Interim parts evaluation and selection complete	5	18NOV02	26NOV02	20	E	0							
4.1.7.7.2.1.2 PRELIMINARY DESIGN															
7E72000060	DL	Engineer Thermal & Mechanical	10	27NOV02	10DEC02	40	E	0							
7E72000050	DL	Produce Preliminary Design	30	27NOV02	16JAN03	20	E	0							
7E72000070	DL	Review EM1 preliminary design	1	17JAN03	17JAN03	20	E	0							
4.1.7.7.2.1.3 FAB, ASSEMBLY & TEST															
7E72000080	DL	PR Procure Parts	1	21JAN03	21JAN03	20	E	0							
7ER7213000	DL	Receive Procure Parts	1	18MAR03	18MAR03	20	E	0							
7E72000090	DL	Assemble/Inspect	5	19MAR03	25MAR03	20	E	0							
7E72000100	DL	Review Eng. Model 1	1	26MAR03	26MAR03	20	E	0							
4.1.7.7.2.2 QUALIFICATION UNIT															
4.1.7.7.2.2.1 DESIGN															
7E72000110	DL	Review parts selection and availability	5	27MAR03	02APR03	45	E	0							
7E72000130	DL	Review and update instrument internal interface	5	27MAR03	02APR03	45	E	0							
7E72000120	DL	Complete mechanical and thermal analysis	30	27MAR03	07MAY03	20	E	0							
7E72000140	DL	Modify Design	20	08MAY03	05JUN03	20	E	0							
7E72000150	DL	Check Thermal & Mechanical	2	12JUN03	13JUN03	16	E	0							
4.1.7.7.2.2.2 FAB & ASSEMBLY															
7E72000160	DL	PR Procure Parts	1	16JUN03	16JUN03	16	E	0							
7ER7222000	DL	Receive Procure Parts	1	11AUG03	11AUG03	16	E	0							
7E72000170	DL	Assemble/Inspect	10	12AUG03	25AUG03	16	E	0							
7E72000180		IA: Qual Unit Available	0		25AUG03	16		0							
4.1.7.7.2.3 FLIGHT UNIT															
7E72000190	DL	Fabrication	60	26AUG03	18NOV03	16	E	0							
7E72000200	DL	Assemble/Inspect	10	19NOV03	04DEC03	16	E	0							
7E72000210		IA: Flight Unit Available	0		04DEC03	16		0							
4.1.7.7.3 DATA CPU ENCLOSURE															
4.1.7.7.3.1 ENGINEERING MODEL 1															
4.1.7.7.3.1.1 CONCEPTUAL DESIGN															
7E73000000	DL	Produce Preliminary Interface Document	5	01OCT02*	07OCT02	0	E	0							
7E73000010	DL	Produce Preliminary Conceptual Design	20	08OCT02	04NOV02	0	E	0							
7E73000020	DL	Engineer Thermal & Mechanical	20	05NOV02	04DEC02	0	E	0							
7E73000030	DL	Produce Conceptual Design	20	05DEC02	10JAN03	0	E	0							
7E73000040	DL	Interim parts evaluation and selection complete	20	13JAN03	10FEB03	0	E	0							
4.1.7.7.3.1.2 PRELIMINARY DESIGN															
7E73000060	DL	Engineer Thermal & Mechanical	10	11FEB03	25FEB03	30	E	0							
7E73000050	DL	Produce Preliminary Design	40	11FEB03	08APR03	0	E	0							
7E73000070	DL	Review EM1 preliminary design	1	09APR03	09APR03	0	E	0							
4.1.7.7.3.1.3 FAB, ASSEMBLY & TEST															
7E73000080	DL	PR Procure Parts	1	10APR03	10APR03	0	E	0							
7ER7313000	DL	Receive Procure Parts	1	05JUN03	05JUN03	0	E	0							
7E73000090	DL	Assemble/Inspect	5	06JUN03	12JUN03	0	E	0							
7E73000100	DL	Review Eng. Model 1	1	13JUN03	13JUN03	0	E	0							
4.1.7.7.3.2 QUALIFICATION UNIT															
4.1.7.7.3.2.1 DESIGN															
7E73000110	DL	Review parts selection and availability	5	16JUN03	20JUN03	5	E	0							
7E73000130	DL	Review and update instrument internal interface	5	16JUN03	20JUN03	5	E	0							
7E73000120	DL	Complete mechanical and thermal analysis	10	16JUN03	27JUN03	0	E	0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01 FY02 FY03 FY04 FY05 FY06 FY07							
7E73000140	DL	Modify Design	20	30JUN03	28JUL03	0	E	0								
7E73000150	DL	Check Thermal & Mechanical	2	29JUL03	30JUL03	0	E	0								
4.1.7.7.3.2.2 FAB & ASSEMBLY																
7E73000160	DL	PR Procure Parts	1	31JUL03	31JUL03	0	E	0								
7ER7322000	DL	Receive Procure Parts	1	25SEP03	25SEP03	0	E	0								
7E73000170	DL	Assemble/Inspect	1	26SEP03	26SEP03	0	E	0								
7E73000180		IA: Qual Unit Available	0		26SEP03	0		0								
4.1.7.7.3.3 FLIGHT UNIT																
7E73000190	DL	Fabrication	60	29SEP03	23DEC03	22	E	0								
7E73000200	DL	Assembly/Inspect	10	02JAN04	15JAN04	22	E	0								
7E73000210		IA: Flight Unit Available	0		15JAN04	22		0								
4.1.7.7.4 SIU ENCLOSURE																
4.1.7.7.4.1 ENGINEERING MODEL 1																
4.1.7.7.4.1.1 CONCEPTUAL DESIGN																
7E74000000	DN	Produce Preliminary Interface Document	5	01OCT02*	07OCT02	63	E	0								
7E74000010	DN	Produce Preliminary Conceptual Design	20	08OCT02	04NOV02	63	E	0								
7E74000020	DN	Engineer Thermal & Mechanical	20	05NOV02	04DEC02	63	E	0								
7E74000030	DN	Produce Conceptual Design	20	05DEC02	10JAN03	63	E	0								
7E74000040	DN	Interim parts evaluation and selection complete	20	13JAN03	10FEB03	63	E	0								
4.1.7.7.4.1.2 PRELIMINARY DESIGN																
7E74000060	DN	Engineer Thermal & Mechanical	10	11FEB03	25FEB03	73	E	0								
7E74000050	DN	Produce Preliminary Design	20	11FEB03	11MAR03	63	E	0								
7E74000070	DN	Review EM1 preliminary design	1	12MAR03	12MAR03	63	E	0								
4.1.7.7.4.1.3 FAB, ASSEMBLY & TEST																
7E74000080	DN	PR Procure Parts	1	13MAR03	13MAR03	63	E	0								
7ER7413000	DN	Receive Procure Parts	1	07MAY03	07MAY03	63	E	0								
7E74000090	DN	Assemble/Inspect	5	08MAY03	14MAY03	63	E	0								
7E74000100	DN	Review Eng. Model 1	1	15MAY03	15MAY03	63	E	0								
4.1.7.7.4.2 QUALIFICATION UNIT																
4.1.7.7.4.2.1 DESIGN																
7E74000110	DN	Review parts selection and availability	5	16MAY03	22MAY03	68	E	0								
7E74000130	DN	Review and update instrument internal interface	5	16MAY03	22MAY03	68	E	0								
7E74000120	DN	Complete mechanical and thermal analysis	10	16MAY03	30MAY03	63	E	0								
7E74000140	DN	Modify Design	20	02JUN03	27JUN03	63	E	0								
7E74000150	DN	Check Thermal & Mechanical	2	30JUN03	01JUL03	63	E	0								
4.1.7.7.4.2.2 FAB & ASSEMBLY																
7E74000160	DN	PR Procure Parts	1	02JUL03	02JUL03	63	E	0								
7ER7422000	DN	Receive Procure Parts	1	27AUG03	27AUG03	63	E	0								
7E74000170	DN	Assemble/Inspect	1	28AUG03	28AUG03	63	E	0								
7E74000180		IA: SIU Enclosure Qual Unit Available	0		28AUG03	63		0								
4.1.7.7.4.3 FLIGHT UNIT																
7E74000190	DN	Fabrication	20	29AUG03	26SEP03	99	E	0								
7E74000200	DN	Assembly/Inspect	10	29SEP03	10OCT03	99	E	0								
7E74000210		IA: Flight Unit Available	0		10OCT03	99		0								
4.1.7.8 CABLE HARNESS																
4.1.7.8.1 ENGINEERING MODEL																
7E20013870	DL	Electrical Harness Design	40	01OCT02*	27NOV02	165	E	0								
7E20013890	DL	GLB TRG Harness Fab & Assy	5	28NOV02	04DEC02	170	E	0								
7E20013900	DL	Health Monitoring Harness Fab & Ass.	5	28NOV02	04DEC02	170	E	0								
7E20013910	DL	Power Harness Fab & Assembly	5	28NOV02	04DEC02	170	E	0								
7E20013920	DL	SC Harness Fab & Assembly	5	28NOV02	04DEC02	170	E	0								
7E20013880	DL	Instrument Data Bus Harness Fab & Assy	10	28NOV02	11DEC02	165	E	0								
7E81000010	DL	Harness Test	15	12DEC02	10JAN03	165	E	0								
7E81000000		IA: Cable Harness Engr Model Available	0		10JAN03	165		0								
4.1.7.8.2 QUALIFICATION UNIT																
7E20013940	DL	Harnes Design	60	26MAR03	18JUN03	115	E	0								
7E20013970	DL	GLB TRG Harness Fab & Assy	5	19JUN03	25JUN03	120	E	0								
7E20013980	DL	Health Monitoring Harness Fab & Ass.	5	19JUN03	25JUN03	120	E	0								
7E20013990	DL	Power Harness Fab & Assembly	5	19JUN03	25JUN03	120	E	0								
7E20014000	DL	SC Harness Fab & Assembly	5	19JUN03	25JUN03	120	E	0								
7E20013960	DL	Instrument Data Bus Harness Fab & Assy	10	19JUN03	02JUL03	115	E	0								
7E82000000	DL	Harness Test	5	03JUL03	10JUL03	115	E	0								
7E82000010		IA: Qual Cable Harness	0		10JUL03	115		0								
4.1.7.8.3 FLIGHT UNIT																
7E20014020	DL	Instrument Data Bus Harness Fab & Assy	30	12SEP03	23OCT03	71	E	0								
7E20014030	DL	GLB TRG Harness Fab & Assy	5	24OCT03	30OCT03	76	E	0								
7E20014040	DL	Health Monitoring Harness Fab & Ass.	5	24OCT03	30OCT03	76	E	0								
7E20014060	DL	SC Harness Fab & Assembly	5	24OCT03	30OCT03	76	E	0								
7E20014050	DL	Power Harness Fab & Assembly	10	24OCT03	06NOV03	71	E	0								
7E83000000	DL	Harness Test	40	07NOV03	14JAN04	71	E	0								
7E83000010		AV: Flight Cable Harness for I&T	0		14JAN04	71		0								
4.1.7.9 FLIGHT SOFTWARE																
7E9L000000	DL	SLAC	1,441	01MAY01A	20MAR06	9	A	10								
4.1.7.9.1 INFRA-STRUCTURE DEVELOPMENT/TEST BENCH SUPPORT																
4.1.7.9.1.1 INFRA-STRUCTURE DEVELOPMENT																
7E10000030		Start Flight Software	0	01MAY01A				100								
7E10000000	DL	Code Management	1,200	01MAY01A	28SEP01A		A	100								
7E10000010	DL	Installation Management	1,200	01MAY01A	28SEP01A		A	100								
7E91100000	DL	Management	1,200	01MAY01A	28SEP01A		A	100								
7E91120000	DL	Meetings	1,200	01MAY01A	28SEP01A		A	100								
7E91130000	DL	Training	1,200	01MAY01A	28SEP01A		A	100								
7E91130020	DH	DAQ Science Software Support (FY02)	247	01OCT01A	30SEP02	58	A	9								
7E91100010	DN	Installation Management	1,093	01OCT01A	08MAR06	17	A	2								
7E91120010	DN	Meetings	1,093	01OCT01A	08MAR06	17	A	2								
7E91130010	DN	Training	1,093	01OCT01A	08MAR06	17	A	2								
7EN7000000	DL	Code Management	1,200	01OCT01A	09MAR06	16	A	2								
7EN7000010	DL	Installation Management	1,200	01OCT01A	09MAR06	16	A	2								
7EN7000020	DL	Management	1,200	01OCT01A	09MAR06	16	A	2								
7EN7000030	DL	Meetings	1,200	01OCT01A	09MAR06	16	A	2								

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01 FY02 FY03 FY04 FY05 FY06 FY07						
									Gantt Chart						
7EN7000040	DL	Training	1,200	01OCT01A	09MAR06	16	A	2	Training						
7E113L0000	DH	DAQ Science Software Support (FY03+)	785	01OCT02	01DEC05	58	A	0	DAQ Science						
4.1.7.9.1.2 TEST BENCH SUPPORT															
7E10000110	DL	TKR	1,000	01MAY01A	28SEP01A		A	100	TKR						
7E10000120	DL	TRG	1,000	01MAY01A	28SEP01A		A	100	TRG						
7E10000100	DN	CAL	895	01OCT01A	17MAY05	35	A	2	CAL						
7EN9000000	DL	TKR	1,000	01OCT01A	03JUN05	23	A	2	TKR						
7EN9000010	DL	TRG	1,000	01OCT01A	03JUN05	23	A	2	TRG						
7E10001050		Complete Test Bench Support	0		03JUN05	23		0	Complete Test Bench Support						
4.1.7.9.2 DETERMINE CPU RESOURCES															
7E10000050	DL	Generate MC events (Texas)	40	01MAY01A	21AUG01A		E	100	Generate MC events (Texas)						
7E10000020		IN: Acquire DAQ Interim Model	0		01JUN01A			100	IN: Acquire DAQ Interim Model						
7E10000040	DL	Characterize L2 & L3 times	90	04JUN01A	09OCT01A		E	100	Characterize L2 & L3 times						
7E10000060	DL	Characterize Memory Needs	90	04JUN01A	09OCT01A		E	100	Characterize Memory Needs						
7E10000070	DL	Characterize Other Storage Needs	90	04JUN01A	09OCT01A		E	100	Characterize Other Storage Needs						
7E10000080	DL	Characterize IO needs	90	04JUN01A	09OCT01A		E	100	Characterize IO needs						
7E92000000	DL	Procure Materials	1	02AUG01A	02AUG01A		E	100	Procure Materials						
7E911TAM00	DT	Software Support FY01 Texas A&M	19	04SEP01A	28SEP01A		E	100	Software Support FY01 Texas A&M						
7ER9200000	DL	Receive Procure Materials	1	11OCT01A	11OCT01A		E	100	Receive Procure Materials						
7E10001060		Complete Determination of CPU Resources	0		11OCT01A			100	Complete Determination of CPU Resources						
4.1.7.9.3 ENGINEERING MODEL 1															
4.1.7.9.3.1 ARCHITECTURE															
7E10000130		IN: Acquire DAQ EM 1 Description	0		04SEP01A			100	IN: Acquire DAQ EM 1 Description						
7E10000140	DL	Low Level Utilites	148	05SEP01A	15APR02	237	E	50	Low Level Utilites						
7E10000150	DL	Frameworks	148	05SEP01A	15APR02	237	E	50	Frameworks						
7E10000160	DL	GSE Selection/Integration	148	05SEP01A	15APR02	237	E	50	GSE Selection/Integration						
7E931G0000	DL	Frameworks	148	05SEP01A	15APR02	237	E	50	Frameworks						
7E931N0000	DN	Low Level Utilites	148	05SEP01A	15APR02	237	E	50	Low Level Utilites						
7E93100000	DL	PR Procure Materials	1	03OCT01A	03OCT01A		E	100	PR Procure Materials						
7ER9310000	DL	Receive Procure Materials	1	09JAN02	09JAN02	303	E	0	Receive Procure Materials						
7E10000840		Flight Software EM1 Complete Architecture	0		15APR02	237		0	Flight Software EM1 Complete Architecture						
4.1.7.9.3.2 LOW LEVEL DIAGNOSTICS															
7E932L0000	DL	Low Level Diagnostics	67	19NOV01	06MAR02	1,008	E	0	Low Level Diagnostics						
7E932N0000	DN	Low Level Diagnostics	67	19NOV01	06MAR02	1,008	E	0	Low Level Diagnostics						
4.1.7.9.3.3 TOWER COMMAND & CONFIGURATION															
7E10000170	DL	Generic Libraries	138	04DEC01	27JUN02	185	E	0	Generic Libraries						
7E10000190	DN	CAL Libraries	138	04DEC01	27JUN02	185	E	0	CAL Libraries						
7E10000200	DL	TKR Libraries	138	04DEC01	27JUN02	185	E	0	TKR Libraries						
7E10000210	DL	TRG Libraries	138	04DEC01	27JUN02	185	E	0	TRG Libraries						
7E10000850		Complete Tower Command & Configuration	0		27JUN02	185		0	Complete Tower Command & Configuration						
4.1.7.9.3.4 DATAFLOW															
7E10000220	DL	Tower to CPU	138	04DEC01	27JUN02	2	E	0	Tower to CPU						
7E10000230	DL	CPU Processing	138	04DEC01	27JUN02	2	E	0	CPU Processing						
7E10000240	DL	Output Data	138	04DEC01	27JUN02	2	E	0	Output Data						
7E934L0000	DL	CPU Formatting	138	04DEC01	27JUN02	2	E	0	CPU Formatting						
7E934N0000	DN	CPU Formatting	138	04DEC01	27JUN02	2	E	0	CPU Formatting						
7E10000860		Complete Data Flow	0		27JUN02	2		0	Complete Data Flow						
4.1.7.9.3.5 HOUSEKEEPING															
7E10000250	DL	Tower to CPU	80	04DEC01	05APR02	243	E	0	Tower to CPU						
7E10000270	DL	Output Data	80	04DEC01	05APR02	243	E	0	Output Data						
7E10000870		Complete Housekeeping	0		05APR02	243		0	Complete Housekeeping						
4.1.7.9.3.6 EM1 SIMULATOR															
7E93600000		IN: Acquire EM1 Simulators	0		22MAY02	119		0	IN: Acquire EM1 Simulators						
7E936L0000	DL	Program EM1 Simulators	91	23MAY02	01OCT02	119	E	0	Program EM1 Simulators						
7E936N0000	DN	Program EM1 Simulators	91	23MAY02	01OCT02	119	E	0	Program EM1 Simulators						
7E93600010		Complete EM1 Simulator	0		01OCT02	119		0	Complete EM1 Simulator						
4.1.7.9.3.7 LOW RATE SCIENCE															
7E10000300	DL	Output Data	5	04DEC01	10DEC01	1,061	E	0	Output Data						
7E10000280	DL	Tower to CPU	20	04DEC01	09JAN02	1,046	E	0	Tower to CPU						
7E10000890		Flight Software EM1 Low Rate Science Engr Code	0		01OCT02	119		0	Flight Software EM1 Low Rate Science Engr Code						
4.1.7.9.4 ENGINEERING MODEL 2															
4.1.7.9.4.1 EM1/EM2 Transition															
7E10000310		IN: Acquire DAQ EM 2 Documentation	0		01OCT02	119		0	IN: Acquire DAQ EM 2 Documentation						
7E10000330	DL	Single CPU Implementations	1	02OCT02	02OCT02	119	E	0	Single CPU Implementations						
7E10000320	DL	Tweaks for EM2	15	02OCT02	22OCT02	253	E	0	Tweaks for EM2						
7E94100000	DL	Procure Materials	15	02OCT02	22OCT02	219	E	0	Procure Materials						
7E10000900		Complete Review	0		22OCT02	253		0	Complete Review						
4.1.7.9.4.2 LOW LEVEL DIAGNOSTICS															
7E94200010	DL	Low Level Diagnostics	93	02OCT02	24FEB03	175	E	0	Low Level Diagnostics						
7E94200020	DN	Low Level Diagnostics	93	02OCT02	24FEB03	175	E	0	Low Level Diagnostics						
7E94210000		Complete Low Level Diagnostics	0		24FEB03	175		0	Complete Low Level Diagnostics						
4.1.7.9.4.3 FACILITIES															
7E10000340	DL	Histogrammers	93	02OCT02	24FEB03	175	E	0	Histogrammers						
7E10000350	DL	Trending	93	02OCT02	24FEB03	175	E	0	Trending						
7E10000910		Complete Facilities	0		24FEB03	175		0	Complete Facilities						
4.1.7.9.4.4 FAST MONITORING															
7E10000360	DN	Data Integrity	93	02OCT02	24FEB03	175	E	0	Data Integrity						
7E10000370	DN	CNO	93	02OCT02	24FEB03	175	E	0	CNO						
7E10000390	DN	CAL	93	02OCT02	24FEB03	175	E	0	CAL						
7E10000400	DL	TKR	93	02OCT02	24FEB03	175	E	0	TKR						
7E10000410	DL	TRG	93	02OCT02	24FEB03	175	E	0	TRG						
7E94400000	DL	Data Integrity	93	02OCT02	24FEB03	119	E	0	Data Integrity						
7E10000920		Complete Fast Monitoring	0		24FEB03	175		0	Complete Fast Monitoring						
4.1.7.9.4.5 SPACE CRAFT OPS															
7E10000420	DN	Communication & IO	7	16DEC02	02JAN03	210	E	0	Communication & IO						
7E10000430	DN	Info Monitoring (time, attitude)	7	25FEB03	05MAR03	161	E	0	Info Monitoring (time, attitude)						
7E10000440	DN	Load Shedding	7	06MAR03	14MAR03	161	E	0	Load Shedding						
7E10000930		Complete Space Craft Ops	0		14MAR03	161		0	Complete Space Craft Ops						

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year									
									FY01	FY02	FY03	FY04	FY05	FY06	FY07			
4.1.7.9.4.6 GSE																		
7E1000450	DL	GSE Exploitation	7	25FEB03	05MAR03	119	E	0										
7E946N000	DN	GSE Exploitation	7	06MAR03	14MAR03	119	E	0										
7E946N0010		Complete GSE Exploitation	0		14MAR03	119		0										
4.1.7.9.4.7 UPLINK/DOWNLINK																		
7E1000460	DL	Output formatting	7	17MAR03	25MAR03	119	E	0										
7E1000470	DN	SSR management	7	26MAR03	03APR03	119	E	0										
7E1000480	DN	Uplink librarian	7	04APR03	14APR03	119	E	0										
7E1000490	DN	TDRS	7	15APR03	23APR03	119	E	0										
7E947L0010	DL	Uplink Formatting	7	24APR03	02MAY03	119	E	0										
7E947N0000	DN	Output formatting	7	05MAY03	13MAY03	119	E	0										
7E1000940		Complete Uplink/Downlink	0		13MAY03	119		0										
4.1.7.9.4.8 CALIBRATION																		
7E1000510	DN	CAL	93	02OCT02	24FEB03	175	E	0										
7E1000520	DL	TKR	93	02OCT02	24FEB03	175	E	0										
7E1000950		Flight Software EM2 Complete Calibration	0		13MAY03	119		0										
4.1.7.9.4.9 EM2 SIMULATOR																		
7E94900000		IN: Acquire EM2 Simulators	0		01OCT02*	268		0										
7E94900030	DL	Program EM2 Simulators	93	02OCT02	24FEB03	175	E	0										
7E94900040	DN	Program EM2 Simulators	93	02OCT02	24FEB03	175	E	0										
7E94900010		Complete EM2 Simulator	0		24FEB03*	175		0										
4.1.7.9.4.A SCIENCE																		
7E1000550	DN	GBM interactions	34	04SEP01A	19OCT01A		E	100										
7E1000560	DN	Low Rate Science	34	04SEP01A	19OCT01A		E	100										
7E1000530	DL	Transients	34	23OCT02	11DEC02	219	E	0										
7E1000540	DL	Sky Maps	34	23OCT02	11DEC02	219	E	0										
7E1000960		Science Complete	0		13DEC02	217		0										
4.1.7.9.4.B Multi-CPU Tool Box Effort																		
4.1.7.9.4.B.1 Multi-CPU Tool Box																		
7E95100000	DL	PR Procure Materials	1	02OCT02	02OCT02	320	E	0										
7E1000580	DL	Communications Primitives	93	02OCT02	24FEB03	229	E	0										
7E1000590	DL	Scatter/Gather	93	02OCT02	24FEB03	229	E	0										
7E1000600	DN	Booting	93	02OCT02	24FEB03	229	E	0										
7E1000610	DL	Task Assignment	93	02OCT02	24FEB03	229	E	0										
7ER94B1000	DL	Receive Procure Materials	1	03OCT02	03OCT02	320	E	0										
7E1000980		Complete Multi-CPU Toolbox	0		24FEB03	229		0										
4.1.7.9.4.B.2 Multi-CPU Low Level Diagnostics																		
7E95220010	DL	Low Level Diagnostics	93	02OCT02	24FEB03	229	E	0										
7E95220020	DN	Low Level Diagnostics	93	02OCT02	24FEB03	229	E	0										
7E95221000		Complete Low Level Diagnostics	0		24FEB03	229		0										
4.1.7.9.4.B.3 Multi-CPU Calibration																		
7E1000750	DN	CAL	93	02OCT02	24FEB03	229	E	0										
7E1000760	DL	TKR	93	02OCT02	24FEB03	229	E	0										
7E10001020		Complete Calibration	0		24FEB03	229		0										
7E1000970		Complete Develop Electronics 2 Engineering Code	0		13MAY03	119		0										
4.1.7.9.5 QUALIFICATION UNIT																		
4.1.7.9.5.2 MULTI-CPU IMPLEMENTATIONS																		
4.1.7.9.5.2.1 FACILITIES																		
7E1000660		IN: Acquire DAQ Qual Documentation	0		12MAR03	163		0										
7E1000630	DL	Trending	54	13MAR03	28MAY03	163	E	0										
7E1000620	DL	Histogrammers	54	14MAY03	30JUL03	119	E	0										
7E1000990		Complete Facilities	0		30JUL03	119		0										
4.1.7.9.5.2.3 FAST MONITORING																		
7E1000640	DL	Data Integrity	54	13MAR03	28MAY03	163	E	0										
7E1000650	DN	CNO	54	13MAR03	28MAY03	163	E	0										
7E1000670	DN	CAL	54	13MAR03	28MAY03	163	E	0										
7E1000680	DL	TKR	54	13MAR03	28MAY03	163	E	0										
7E1000690	DL	TRG	54	13MAR03	28MAY03	163	E	0										
7E10001000		Complete Fast Monitoring	0		28MAY03	163		0										
4.1.7.9.5.2.4 SPACE CRAFT OPS																		
7E1000700	DN	Communication & IO	54	13MAR03	28MAY03	163	E	0										
7E1000710	DL	Info Monitoring (time, attitude)	54	13MAR03	28MAY03	163	E	0										
7E1000720	DN	Coordinated Load Shedding	54	13MAR03	28MAY03	163	E	0										
7E10001010		Complete Space Craft Ops	0		28MAY03	163		0										
4.1.7.9.5.2.5 GSE																		
7E1000730	DL	GSE Exploitation	54	13MAR03	28MAY03	163	E	0										
7E9525N000	DN	GSE Exploitation	54	13MAR03	28MAY03	163	E	0										
7E95251000		Complete GSE Exploitation	0		28MAY03	163		0										
4.1.7.9.5.2.7 SCIENCE																		
7E1000770	DL	Data Scatter/Gather	54	13MAR03	28MAY03	163	E	0										
7E9527N000	DN	Data Scatter/Gather	54	13MAR03	28MAY03	163	E	0										
7E10001030		Science Complete	0		28MAY03	163		0										
7E10001040		Flight Software Qual Unit Multi CPU Science Engr	0		30JUL03	119		0										
4.1.7.9.6 FLIGHT UNIT																		
4.1.7.9.6.1 FINAL INSTRUMENT CODE INTEGRATION																		
7E1000780		IN: Acquire Full Instrument	0		30JUL03	119		0										
7E1000790	DL	Final Instrument Code Integration	100	31JUL03	22DEC03	119	E	0										
7E961N0000	DN	Final Instrument Code Integration	100	31JUL03	22DEC03	119	E	0										
7E96100000		Flight Software Flight Unit Final Instr Code Int	0		22DEC03	119		0										
4.1.7.9.6.2 SLAC BASED FLIGHT I&T																		
7E1000800	DL	SLAC based Flight I & T	300	09APR04	22JUN05	50	E	0										
7E962N0000	DN	SLAC based Flight I & T	300	09APR04	22JUN05	50	E	0										
7E1000810		Flight Software Flight Unit SLAC Based Flight I&T	0		22JUN05	50		0										
4.1.7.9.6.3 NON-SLAC BASED I&T																		
7E1000820	DL	Non-SLAC based I & T	140	23JUN05	19JAN06	50	E	0										
7E963N0000	DN	Non-SLAC based I & T	140	23JUN05	19JAN06	50	E	0										
7E1000830		Blast Off	0		09MAR06	16		0										
4.1.7.A EGSE & OPERATIONS																		
7EA0000000		Start Requirements Definition	0	01JUN01A				100										

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
7EA4100010	DL	SLAC	200*	05DEC01	26SEP02	0	E	0							
7EA0000610		IPS Detailed Design	100	11FEB02	02JUL02	0		0							
7EA0000620		H/W Procurement	60	03JUL02	26SEP02	0		0							
7EA0000630		GPIB Readout & Control S/W	60	03JUL02	26SEP02	0		0							
7EA0000640		Documentation & Procedures	60	03JUL02	26SEP02	0		0							
7EA0000650		Instrument Power System EM2 IPS Release	0		26SEP02	0		0							
4.1.7.A.4.2 QUAL UNIT SUPPORT															
7EA0000660		IPS Design Update	20	27SEP02	24OCT02	0		0							
7EA4200010	DL	SLAC	80*	27SEP02	30JAN03	0	E	0							
7EA0000670		H/W Procurement	60	25OCT02	30JAN03	0		0							
7EA0000680		S/W Update	60	25OCT02	30JAN03	0		0							
7EA0000690		Documentation & Procedures	60	25OCT02	30JAN03	0		0							
7EA0000700		AV: Qual Unit IPS Release	0		30JAN03	0		0							
4.1.7.A.4.3 FLIGHT UNIT SUPPORT															
7EA0000710		H/W Procurement	40	31JAN03	28MAR03	0		0							
7EA0000720		S/W Update	40	31JAN03	28MAR03	0		0							
7EA0000730		Documentation & Procedures	40	31JAN03	28MAR03	0		0							
7EA4300010	DL	SLAC	40*	31JAN03	28MAR03	0	E	0							
7EA0000740		AV: Flight Unit Release	0		28MAR03	0		0							
4.1.7.C INSTRUMENT INTEGRATION & TEST															
4.1.7.C.1 TKR/CAL-TEM BOX I&T															
4.1.7.C.1.1 ENGINEERING MODEL 2															
7EC1100000	DH	Develop I&T Plan	10	17JAN03	31JAN03	116	E	0							
7EC1100010	DH	Integrate	10	03FEB03	14FEB03	116	E	0							
7EC1100020		IN: EM2 Flight/GSE SW/HW for Integration	0		14FEB03	116		0							
7EC1100030	DH	Functional/Performance Test	10	18FEB03	03MAR03	116	E	0							
7EC1100040	DH	Review I&T Eng. Model 2	1	04MAR03	04MAR03	116	E	0							
7EC11E0000		AV: EM2 TEM Assembly A&B for I&T	0		04MAR03	116		0							
4.1.7.C.1.2 QUALIFICATION UNIT															
7EC1200000	DH	Integrate	5	16SEP03	22SEP03	0	E	0							
7EC1200010		IN: Qual Unit Flight/GSE SW for Integration	0		22SEP03	0		0							
7EC12E0000		AV: Flight TEM Assembly Qual A&B	0		22SEP03	0		0							
7EC1200020	DH	Functional/Performance Test	10	23SEP03	06OCT03	0	E	0							
7EC1200030	DH	Vibration Test	5	07OCT03	13OCT03	0	E	0							
7EC1200040	DH	Acoustic Test	1	14OCT03	14OCT03	0	E	0							
7EC1200050	DH	EMI/EMC Test	5	15OCT03	21OCT03	0	E	0							
7EC1200060	DH	Thermal Vacuum Test	5	22OCT03	28OCT03	0	E	0							
7EC1200070	DH	Review I&T Qual Unit	1	29OCT03	29OCT03	0	E	0							
7EC1272000		AV: Qual Review TEM-TKR/CAL	0		29OCT03	0		0							
7EC13E1060		AV: Flight TEM Assembly Mod 1,2 for I&T	0		29OCT03	46		0							
4.1.7.C.1.3 FLIGHT UNIT															
7EC1300000	DH	Integrate	5	20NOV03	26NOV03	0	E	0							
7EC1300010		IN: Qual Unit Flight/GSE SW for Integration	0		26NOV03	0		0							
7EC1300020	DH	Functional/Performance Test	5	01DEC03	05DEC03	0	E	0							
7EC1300030	DH	Vibration Test	5	08DEC03	12DEC03	0	E	0							
7EC1300040	DH	Acoustic Test	5	15DEC03	19DEC03	0	E	0							
7EC1300050	DH	EMI/EMC Test	5	22DEC03	06JAN04	0	E	0							
7EC1300060	DH	Thermal Vacuum Test	5	07JAN04	13JAN04	0	E	0							
7EC1300070	DH	Review I&T Flight Unit	1	14JAN04	14JAN04	0	E	0							
7EC13E0000		AV: Flight TEM Assembly Mod 3,4 for I&T	0		14JAN04	0		0							
7EC13E1000		AV: Flight TEM Assembly Mod 5,6 for I&T	0		22JAN04	12		0							
7EC13E1010		AV: Flight TEM Assembly Mod 7,8 for I&T	0		29JAN04	12		0							
7EC13E1020		AV: Flight TEM Assembly Mod 9,10 for I&T	0		05FEB04	17		0							
7EC13E1030		AV: Flight TEM Assembly Mod 11,12 for I&T	0		12FEB04	20		0							
7EC13E1040		AV: Flight TEM Assembly Mod 13,14 for I&T	0		20FEB04	24		0							
7EC13E1050		AV: Flight TEM Assembly Mod 15,16 for I&T	0		27FEB04	24		0							
4.1.7.C.2 ACD TEM BOX I&T (Also GLT)															
4.1.7.C.2.1 ENGINEERING MODEL 2															
7EC2000000	DL	Develop I&T Plan	5	13MAR03	19MAR03	113	E	0							
7EC2000010	DL	Integrate	3	20MAR03	24MAR03	113	E	0							
7EC2000020		IN: EM2 Flight/GSE SW/HW for Integration	0		24MAR03	113		0							
7EC2000030	DL	Functional/Performance Test	10	25MAR03	07APR03	113	E	0							
7EC2000040	DL	Review I&T Eng. Model 2	1	08APR03	08APR03	113	E	0							
4.1.7.C.2.2 QUALIFICATION UNIT															
7EC2000050	DL	Integrate	20	26AUG03	23SEP03	16	E	0							
7EC2000060		IN: Qual Unit Flight/GSE SW for Integration	0		23SEP03	16		0							
7EC22E0000		AV: Qual ACD TEM	0		23SEP03	16		0							
7EC2000070	DL	Functional/Performance Test	10	24SEP03	07OCT03	16	E	0							
7EC2000080	DL	Vibration Test	5	08OCT03	14OCT03	16	E	0							
7EC2000090	DL	Acoustic Test	5	15OCT03	21OCT03	16	E	0							
7EC2000100	DL	EMI/EMC Test	5	22OCT03	28OCT03	16	E	0							
7EC2000110	DL	Thermal Vacuum Test	5	29OCT03	04NOV03	16	E	0							
7EC2000120	DL	Review I&T Qual Unit	1	05NOV03	05NOV03	16	E	0							
7EC2272000		AV: Qual Review ACD/GLT	0		05NOV03	16		0							
4.1.7.C.2.3 FLIGHT UNIT															
7EC2000130	DL	Integrate	10	05DEC03	18DEC03	16	E	0							
7EC2000140		IN: Qual Unit Flight/GSE SW for Integration	0		18DEC03	16		0							
7EC2000150	DL	Functional/Performance Test	5	19DEC03	05JAN04	16	E	0							
7EC2000160	DL	Vibration Test	5	06JAN04	12JAN04	16	E	0							
7EC2000170	DL	Acoustic Test	5	13JAN04	20JAN04	16	E	0							
7EC2000180	DL	EMI/EMC Test	5	21JAN04	27JAN04	16	E	0							
7EC2000190	DL	Thermal Vacuum Test	5	28JAN04	03FEB04	16	E	0							
7EC2000200	DL	Review I&T Flight Unit	1	04FEB04	04FEB04	16	E	0							
7EC23E0000		AV: Flight ICM/GLT Elex Module for I&T	0		04FEB04	57		0							
7EC23E0010		AV: Flight ACD Elex Module for I&T	0		04FEB04	16		0							
4.1.7.C.3 DATA CPU BOX I&T															
4.1.7.C.3.1 ENGINEERING MODEL 2															
7EC3000000	DN	Develop I&T Plan	5	13MAR03	19MAR03	125	E	0							
7EC3000010	DN	Integrate	3	20MAR03	24MAR03	125	E	0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
7EC3000020		IN: EM2 Flight/GSE SW/HW for Integration	0		24MAR03	125		0							
7EC3000030	DN	Functional/Performance Test	5	25MAR03	31MAR03	125	E	0							
7EC3000040	DN	Review I&T Eng. Model 2	1	01APR03	01APR03	125	E	0							
4.1.7.C.3.2 QUALIFICATION UNIT															
7EC3000050	DN	Integrate	5	29SEP03	03OCT03	0	E	0							
7EC3000060		IN: Qual Unit Flight/GSE SW for Integration	0		03OCT03	0		0							
7EC32E0000		AV: Qual CPU	0		03OCT03	0		0							
7EC3000070	DN	Functional/Performance Test	10	06OCT03	17OCT03	0	E	0							
7EC3000080	DN	Vibration Test	5	20OCT03	24OCT03	0	E	0							
7EC3000090	DN	Acoustic Test	5	27OCT03	31OCT03	0	E	0							
7EC3000100	DN	EMI/EMC Test	5	03NOV03	07NOV03	0	E	0							
7EC3000110	DN	Thermal Vacuum Test	5	10NOV03	14NOV03	0	E	0							
7EC3000120	DN	Review I&T Qual Unit	1	17NOV03	17NOV03	0	E	0							
7EC3720000		AV: Qual Review Event Proc	0		17NOV03	0		0							
4.1.7.C.3.3 FLIGHT UNIT															
7EC3000130	DN	Integrate	5	16JAN04	23JAN04	22	E	0							
7EC3000140		IN: Flight/GSE SW for Integration	0		23JAN04	22		0							
7EC33E0000		AV: Flight Event Processor Units for I&T	0		23JAN04	22		0							
7EC3000150	DN	Functional/Performance Test	5	26JAN04	30JAN04	22	E	0							
7EC3000160	DN	Vibration Test	5	04MAR04	10MAR04	0	E	0							
7EC3000170	DN	Acoustic Test	5	11MAR04	17MAR04	0	E	0							
7EC3000180	DN	EMI/EMC Test	5	18MAR04	24MAR04	0	E	0							
7EC3000190	DN	Thermal Vacuum Test	5	25MAR04	31MAR04	0	E	0							
7EC3000200	DN	Review I&T Flight Unit	1	01APR04	01APR04	0	E	0							
7EC3721000		AV: RFI 1st Article Event Proc	0		01APR04	0		0							
4.1.7.C.4 SIU BOX I&T															
4.1.7.C.4.1 ENGINEERING MODEL 2															
7EC4000000	DN	Develop I&T Plan	5	22APR03	28APR03	125	E	0							
7EC4000010	DN	Integrate	3	29APR03	01MAY03	125	E	0							
7EC4000020		IN: EM2 Flight/GSE SW/HW for Integration	0		01MAY03	125		0							
7EC4000030	DN	Functional/Performance Test	20	02MAY03	30MAY03	125	E	0							
7EC4000040	DN	Review I&T Eng. Model 2	1	02JUN03	02JUN03	125	E	0							
4.1.7.C.4.2 QUALIFICATION UNIT															
7EC4000050	DN	Integrate	5	01DEC03	05DEC03	0	E	0							
7EC4000060		IN: Qual Unit Flight/GSE SW for Integration	0		05DEC03	0		0							
7EC42E0000		AV: Qual SIU	0		05DEC03	0		0							
7EC4000070	DN	Functional/Performance Test	5	08DEC03	12DEC03	0	E	0							
7EC4000080	DN	Vibration Test	5	15DEC03	19DEC03	0	E	0							
7EC4000090	DN	Acoustic Test	5	22DEC03	06JAN04	0	E	0							
7EC4000100	DN	EMI/EMC Test	5	07JAN04	13JAN04	0	E	0							
7EC4000110	DN	Thermal Vacuum Test	5	14JAN04	21JAN04	0	E	0							
7EC4000120	DN	Review I&T Qual Unit	1	22JAN04	22JAN04	0	E	0							
7EC4720000		AV: Qual Review SIU	0		22JAN04	0		0							
4.1.7.C.4.3 FLIGHT UNIT															
7EC4000130	DN	Integrate	2	15MAR04	16MAR04	0	E	0							
7EC4000140		IN: Qual Unit Flight/GSE SW for Integration	0		16MAR04	0		0							
7EC45E0000		AV: Flight SIU for I&T	0		16MAR04	0		0							
7EC4000150	DN	Functional/Performance Test	2	17MAR04	18MAR04	0	E	0							
7EC4000160	DN	Vibration Test	2	19MAR04	22MAR04	0	E	0							
7EC4000170	DN	Acoustic Test	2	23MAR04	24MAR04	0	E	0							
7EC4000180	DN	EMI/EMC Test	2	25MAR04	26MAR04	0	E	0							
7EC4000190	DN	Thermal Vacuum Test	2	29MAR04	30MAR04	0	E	0							
7EC4000200	DN	Review I&T Flight Unit	1	31MAR04	31MAR04	0	E	0							
7EC4372000		AV: RFI 1st Article SIU	0		31MAR04	0		0							
4.1.7.C.5 INSTRUMENT I&T															
4.1.7.C.5.1 ENGINEERING MODEL 2															
7EC5000000	DL	Develop I&T Plan	5	03JUN03	09JUN03	223	E	0							
7EC5000010	DL	Integrate	5	10JUN03	16JUN03	223	E	0							
7EC51H0000	DH	Integrate	5	10JUN03	16JUN03	223	E	0							
7EC51N0000	DN	Integrate	5	10JUN03	16JUN03	223	E	0							
7EC5000020		IN: EM2 Flight/GSE SW/HW for Integration	0		16JUN03	223		0							
7EC5000030	DL	Functional/Performance Test	5	17JUN03	23JUN03	223	E	0							
7EC51H1000	DH	Functional/Performance Test	5	17JUN03	23JUN03	223	E	0							
7EC51N1000	DN	Functional/Performance Test	5	17JUN03	23JUN03	223	E	0							
7EC5000040	DL	Review I&T Eng. Model 2	1	24JUN03	24JUN03	223	E	0							
4.1.7.C.5.2 QUALIFICATION UNIT															
7EC5000050	DL	Integrate	5	23JAN04	29JAN04	83	E	0							
7EC52H0000	DH	Integrate	5	23JAN04	29JAN04	83	E	0							
7EC52N0000	DN	Integrate	5	23JAN04	29JAN04	83	E	0							
7EC5000060		IN: Qual Unit Flight/GSE SW for Integration	0		29JAN04	83		0							
7EC5000070	DL	Functional/Performance Test	5	30JAN04	05FEB04	83	E	0							
7EC52H1000	DH	Functional/Performance Test	5	30JAN04	05FEB04	83	E	0							
7EC52N1000	DN	Functional/Performance Test	5	30JAN04	05FEB04	83	E	0							
7EC5200000	DL	Environmental Test	5	06FEB04	12FEB04	83	E	0							
7EC52HE000	DH	Environmental Test	5	06FEB04	12FEB04	83	E	0							
7EC52NE000	DN	Environmental Test	5	06FEB04	12FEB04	83	E	0							
7EC5000120	DL	Review I&T Qual Unit	1	13FEB04	13FEB04	83	E	0							
7EC5000125		IA: Qual Unit Lat Elect	0		13FEB04	83		0							
7EC52HB000	DH	Beam Test Support	20	17FEB04	15MAR04	367	E	0							
7EC52LB000	DL	Beam Test Support	20	17FEB04	15MAR04	367	E	0							
7EC52NB000	DN	Beam Test Support	20	17FEB04	15MAR04	367	E	0							
4.1.7.C.5.3 FLIGHT UNIT															
7EC5000130	DL	Integrate	5	02APR04	08APR04	55	E	0							
7EC53H0000	DH	Integrate	5	02APR04	08APR04	50	E	0							
7EC53N0000	DN	Integrate	5	02APR04	08APR04	50	E	0							
7EC5000140		IN: Qual Unit Flight/GSE SW for Integration	0		08APR04	325		0							
7EC5000150	DL	Functional/Performance Test	5	09APR04	15APR04	325	E	0							
7EC53H1000	DH	Functional/Performance Test	5	09APR04	15APR04	325	E	0							
7EC53N1000	DN	Functional/Performance Test	5	09APR04	15APR04	325	E	0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01 FY02 FY03 FY04 FY05 FY06 FY07								
7EC5000190	DL	Environmental Test	20	16APR04	13MAY04	325	E	0									Environmental Test
7EC53HE000	DH	Environmental Test	20	16APR04	13MAY04	325	E	0									Environmental Test
7EC53NE000	DN	Environmental Test	20	16APR04	13MAY04	325	E	0									Environmental Test
7EC5300000	DL	Review I&T Qual Unit	1	23APR04	23APR04	339	E	0									Review I&T Qual Unit
7EC5300010		IA: 1st Flight Unit Lat Elect	0		23APR04	339		0									IA: 1st Flight Unit Lat Elect
7EC5000205		IA: Last Flight Unit Lat Elect	0		13MAY04	325		0									IA: Last Flight Unit Lat Elect
4.1.7.D MISSION SYSTEMS INTEGRATION & TEST																	
7ED0000000		PSR Preparations	20	09DEC04*	13JAN05	171		0									PSR Preparations
7ED0000010		Pre-Ship Review (PSR)	0	14JAN05		171		0									Pre-Ship Review (PSR)
7ED0000020		PSR Discrepancy Closeouts	40	14JAN05	14MAR05	171		0									PSR Discrepancy Closeouts
7ED0000030		LRR Preparations	20	03OCT05*	28OCT05	60		0									LRR Preparations
7ED0000040		Launch Readiness Review (LRR)	0	31OCT05		60		0									Launch Readiness Review (LRR)
7ED0000050		LRR Discrepancy Closeouts	20	31OCT05	29NOV05	60		0									LRR Discrepancy Closeouts
4.1.7.D.1 OBSERVATORY TESTING																	
7ED0000060		Pre-Turnover Functional Test	10	15MAR05*	28MAR05	171		0									Pre-Turnover Functional Test
7EDH000000	DH	HEPL	65*	15MAR05	14JUN05	171	E	0									HEPL
7EDL000000	DL	SLAC	65*	15MAR05	14JUN05	171	E	0									SLAC
7EDN000000	DN	NRL	65*	15MAR05	14JUN05	171	E	0									NRL
7ED0000070		LAT Turnover	0	29MAR05		171		0									LAT Turnover
7ED0000080		Functional Tests	15	29MAR05	18APR05	171		0									Functional Tests
7ED0000090		EMI/EMC Test Support	10	19APR05	02MAY05	171		0									EMI/EMC Test Support
7ED0000100	DH	TV/TB Test Support	30	03MAY05	14JUN05	171	E	0									TV/TB Test Support
4.1.7.D.2 GROUND SYSTEMS COMPATIBILITY TESTS																	
7ED0000110		Ground Systems Interface Test	4	15MAR05*	18MAR05	23		0									Ground Systems Interface Test
7ED2000000	DN	NRL	69*	15MAR05	20JUN05	167	E	0									NRL
7ED2000010	DL	SLAC	69*	15MAR05	20JUN05	167	E	0									SLAC
7ED2000020	DH	HEPL	69*	15MAR05	20JUN05	167	E	0									HEPL
7ED0000120		Mission Sequence Test	4	21MAR05*	24MAR05	224		0									Mission Sequence Test
7ED0000130		End-to-End Test	4	15JUN05*	20JUN05	167		0									End-to-End Test
4.1.7.D.3 TRAINING SIMULATIONS																	
7ED0000140		Simulation 1	2	15APR05*	18APR05	212		0									Simulation 1
7ED3000000	DN	NRL	76*	15APR05	02AUG05	142	E	0									NRL
7ED3000010	DL	SLAC	76*	15APR05	02AUG05	142	E	0									SLAC
7ED3000020	DH	HEPL	76*	15APR05	02AUG05	142	E	0									HEPL
7ED0000150		Simulation 2	2	19APR05	20APR05	212		0									Simulation 2
7ED0000160		Simulation 3	2	01AUG05*	02AUG05	142		0									Simulation 3
4.1.7.D.4 LAUNCH & EARLY OPERATIONS SUPPORT																	
7ED0000170		Pre-launch Functional Test	5	24AUG05*	30AUG05	122		0									Pre-launch Functional Test
7ED4000000	DN	NRL	144*	24AUG05	28MAR06	3	E	0									NRL
7ED4000010	DL	SLAC	144*	24AUG05	28MAR06	3	E	0									SLAC
7ED4000020	DH	HEPL	144*	24AUG05	28MAR06	3	E	0									HEPL
7ED0000190		GLAST Launch	0	01MAR06*		3		0									GLAST Launch
7ED0000200		S/C Activation & Checkout	10	01MAR06	14MAR06	3		0									S/C Activation & Checkout
7ED0000180		Launch Support	20	01MAR06	28MAR06	3		0									Launch Support
7ED0000220		Observatory Commissioning	20	01MAR06	28MAR06	3		0									Observatory Commissioning
7ED0000210		LAT Activation & Checkout	10	15MAR06	28MAR06	3		0									LAT Activation & Checkout
7ED0000230		Commissioning Complete	0		28MAR06	3		0									Commissioning Complete
4.1.7.D.5 MSI&T TRAVEL																	
7ED0000240		Domestic Travel	238	15MAR05	28FEB06	23		0									Domestic Travel
7ED0000250		International Travel	238	15MAR05	28FEB06	23		0									International Travel
7ED5000000	DN	NRL	238*	15MAR05	28FEB06	23	E	0									NRL
7ED5000010	DL	SLAC	238*	15MAR05	28FEB06	23	E	0									SLAC
7ED5000020	DH	HEPL	238*	15MAR05	28FEB06	23	E	0									HEPL

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
4.1.8 MECHANICAL SYSTEMS															
4.1.8.1 MANAGEMENT															
8M101000		SLAC Actual for Management	1,357	02OCT00A	31MAR06	0		18	SLAC Act						
4.1.8.1.1 MANAGEMENT AND ENGINEERING (SLAC)															
4.1.8.1.1.1 MECH SYSTEMS MILESTONES															
8M0001210		Mech-PDR	0		15AUG01A			100	◆ Mech-PDR						
8M0001200		AV: I-PDR Material Ready	0	03DEC01		2		0	◇ AV: I-PDR Material Ready						
8M0001220		I-PDR	0		07JAN02	0		0	◆ I-PDR						
8M0001300		AV: Mech-CDR Material Ready	0	03MAY02		4		0	◇ AV: Mech-CDR Material Ready						
8M0001240		Mech-CDR	0		22MAY02	0		0	◆ Mech-CDR						
8M0001402		AV: I-CDR Material Ready	0		12JUL02	0		0	◇ AV: I-CDR Material Ready						
8M0001230		I-CDR	0		05AUG02	0		0	◆ I-CDR						
8M0001600		LAT Integration started (driven by 4.1.9)	0	05JAN04		102		0	◇ LAT Integration started (driven by 4.1.9)						
8M0001700		LAT to structural testing (driven by 4.1.9)	0	13JUL04		42		0	◇ LAT to structural testing (driven by 4.1.9)						
8M0001800		LAT to thermal testing (driven by 4.1.9)	0		14SEP04	20		0	◇ LAT to thermal testing (driven by 4.1.9)						
8M0002100		AV: I-PSR Material Ready	0		19NOV04	17		0	◇ AV: I-PSR Material Ready						
8M0002200		LAT Delivered to SC Contractor	0	23MAR05		96		0	◇ LAT Delivered to SC Contractor						
8M0002210		Glast Delivered to LV Integration	0		03OCT05*	60		0	◇ Glast Delivered to LV Integration						
8M0002300		Launch	0		01MAR06	3		0	◇ Launch						
4.1.8.1.1.2 MANAGEMENT AND ENGINEERING															
8M0002500	DL	Mechanical Systems Engineer	1,356*	03OCT00A	31MAR06	0	A	20	Mechanical						
8M0002600	DL	Mechanical Engineer	1,356*	03OCT00A	31MAR06	0	A	20	Mechanical						
8M0002800	DL	Coordinator	1,356*	03OCT00A	31MAR06	0	A	20	Coordinat						
8M0002700		LAT System Designer	1,227*	16APR01A	31MAR06	0		11	LAT System						
4.1.8.1.2 TRAVEL (SLAC)															
8M0003500	DL	Travel to LAT Reviews/Meetings	1,004*	02OCT00A	21OCT04	353	A	27	Travel to LAT Reviews/Mee						
8M0003600	DL	Contractor, Other Institution Visits	1,004*	02OCT00A	21OCT04	194	A	27	Contractor, Other Institutio						
8M0003300	DL	Travel to I-CDR at GSFC	4	03MAY02	08MAY02	963	E	0	Travel to I-CDR at GSFC						
8M0003700	DL	Travel for Mech Systems Env. Testing	9	15SEP04	27SEP04	41	E	0	Travel for Mech Systems Env. Testing						
8M0003400	DL	Travel to I-PSR at GSFC	4	22NOV04	29NOV04	328	E	0	Travel to I-PSR at GSFC						
8M0003800	DL	Travel for SC I&T	26	23MAR05	27APR05	170	E	0	Travel for SC I&T						
8M0003900	DL	Travel for LV I&T	30	04OCT05	14NOV05	70	E	0	Travel for LV I&T						
4.1.8.1.3 MECH PARTS & MATERIAL (SLAC)															
8M0004100	DL	Develop parts and material control plans	39	01FEB01A	13JUL01A		E	100	Develop parts and material control plans						
8M0004400	DL	Program database and web interface	40	15MAR01A	31JUL01A		E	100	Program database and web interface						
8M0004300	DL	Develop parts and material database	30	29MAR01A	31JUL01A		E	100	Develop parts and material database						
8M0004200	DL	Flow down plans to other institutions	30	29MAR01A	27SEP01A		E	100	Flow down plans to other institutions						
8M0004500	DL	Compile parts, materials lists for I-PDR	20	15OCT01A	28NOV01	4	E	50	Compile parts, materials lists for I-PDR						
8M0004600	DL	Maintain parts, materials lists through I-CDR	100	08JAN02	30MAY02	30	A	0	Maintain parts, materials lists through I-CDR						
8M0004700	DL	Verify compliance with parts, materials lists du	286	06AUG02	30SEP03	301	A	0	Verify compliance with parts, materials						
4.1.8.1.4 SUB-CONTRACTOR MANAGEMENT (LM)															
4.1.8.1.4.1 PHASE 1/2 PROGRAM MANAGEMENT															
8M0004900	DL	Phase 1 Program Management (DOE) FY01	84*	01JUN01A	28SEP01A		A	100	Phase 1 Program Management (DOE) FY01						
8M14100000	DL	(PR) Phase 1 Program Management (NASA) FY02	1	01NOV01	01NOV01	863	E	0	(PR) Phase 1 Program Management (NASA) FY02						
8M14100010	DL	(REC) Phase 1 Program Management (NASA) FY02	203	04DEC01	30SEP02	863	E	0	(REC) Phase 1 Program Management (NASA) FY02						
8M0005000	DL	(PR) Phase 2 Program Management (NASA)	1	03SEP02	03SEP02	635	E	0	(PR) Phase 2 Program Management (NASA) FY02(1)						
8M0005080	DL	(PR) Phase 2 Program Management (NASA) FY03	1	01OCT02*	01OCT02	616	E	0	(PR) Phase 2 Program Management (NASA) FY03(2)						
8M0005010	DL	(REC) Phase 2 Program Management (NASA) FY03	226	30OCT02	30SEP03	616	E	0	(REC) Phase 2 Program Management (N						
8M0005020	DL	(PR) Phase 2 Program Management (NASA) FY04	1	01OCT03	01OCT03	368	E	0	(PR) Phase 2 Program Management (NA						
8M0005030	DL	(REC) Phase 2 Program Management (NASA) FY04	227	30OCT03	30SEP04	368	E	0	(REC) Phase 2 Program Mar						
8M0005040	DL	(PR) Phase 2 Program Management (NASA) FY05	1	01OCT04	01OCT04	120	E	0	(PR) Phase 2 Program Mana						
8M0005050	DL	(REC) Phase 2 Program Management (NASA) FY05	227	01NOV04	30SEP05	120	E	0	(REC) Phase 2 F						
8M0005060	DL	(PR) Phase 2 Program Management (NASA) FY06	1	03OCT05	03OCT05	0	E	0	(PR) Phase 2 Program Management (NASA) FY06						
8M0005070	DL	(REC) Phase 2 Program Management (NASA) FY06	99	01NOV05	31MAR06	0	E	0	(REC) Phase 2 Program Management (NASA) FY06						
4.1.8.1.4.2 SUB-CONTRACT PHASE 1 MILESTONES															
8M0005200		Start Phase 1 of sub-contract	0	01JUN01A				100	◆ Start Phase 1 of sub-contract						
8M0005500		Final I-PDR Reports, Chart Package due	0	03DEC01		2		0	◇ Final I-PDR Reports, Chart Package due						
8M0005602		Mech-CDR Reports, Chart Pkg Due	0		01MAY02	5		0	◇ Mech-CDR Reports, Chart Pkg Due						
8M0005700		I-CDR Reports, Chart Package due	0	15JUL02		0		0	◆ I-CDR Reports, Chart Package due						
8M0005800		Close out Phase 1 of sub-contract	0	01OCT02*		247		0	◇ Close out Phase 1 of sub-contract						
4.1.8.1.4.3 SUB-CONTRACT PHASE 2 MILESTONES															
8M0006000		Start Phase 2 of sub-contract	0	01OCT02		247		0	◇ Start Phase 2 of sub-contract						
8M0024720		Start Radiator Fab Work	1	01OCT03*	01OCT03	0		0	◆ Start Radiator Fab Work						
8M0006400		Final LAT PSR Reports, Chart Package due	0	22NOV04		17		0	◇ Final LAT PSR Reports, Chart Package due						
8M0006500		Close out Phase 2 of sub-contract	0	29MAR06*		3		0	◇ Close out Phase 2 of sub-contract						
4.1.8.1.5 SUB CONTRACTOR TRAVEL (LM)															
8M0006700	DL	Phase 1 LM Travel FY01	1	01MAY01A	01MAY01A		A	100	Phase 1 LM Travel FY01						
8M0006710	DL	(PR) Phase 1 LM Travel FY02	1	01NOV01	01NOV01	863	E	0	(PR) Phase 1 LM Travel FY02						
8M0006720	DL	(REC) Phase 1 LM Travel FY02	203	04DEC01	30SEP02	863	E	0	(REC) Phase 1 LM Travel FY02						
8M0006800	DL	(PR) Phase 2 LM Travel FY02(1)	1	03SEP02	03SEP02	635	E	0	(PR) Phase 2 LM Travel FY02(1)						
8M0006860	DL	(PR) Phase 2 LM Travel FY03(2)	1	01OCT02*	01OCT02	616	E	0	(PR) Phase 2 LM Travel FY03(2)						
8M0006810	DL	(REC) Phase 2 LM Travel FY03	226	30OCT02	30SEP03	616	E	0	(REC) Phase 2 LM Travel FY03						
8M0006820	DL	(PR) Phase 2 LM Travel FY04	1	01OCT03	01OCT03	368	E	0	(PR) Phase 2 LM Travel FY04						
8M0006830	DL	(REC) Phase 2 LM Travel FY04	227	30OCT03	30SEP04	368	E	0	(REC) Phase 2 LM Travel FY04						
8M0006840	DL	(PR) Phase 2 LM Travel FY05	1	01OCT04	01OCT04	120	E	0	(PR) Phase 2 LM Travel FY05						
8M0006850	DL	(REC) Phase 2 LM Travel FY05	227	01NOV04	30SEP05	120	E	0	(REC) Phase 2 LM Travel FY05						
4.1.8.2 RELIABILITY & QUALITY ASSURANCE															
4.1.8.2.3 SUB-CONTRACTOR QUALITY ASSURANCE (LM)															
8M0008310	DL	Phase 1 Sub-Contractor Qual Assurance (LM) FY01	1	28SEP01A	28SEP01A		E	100	Phase 1 Sub-Contractor Qual Assurance (LM) FY01						
8M0008320	DL	(PR) Phase 1 Sub-Contractor Qual Assur (LM) FY02	1	01NOV01	01NOV01	863	E	0	(PR) Phase 1 Sub-Contractor Qual Assur (LM) FY02						
8M0008330	DL	(REC) Phase 1 Sub-Contractor Qual Assur(LM)	203	04DEC01	30SEP02	863	E	0	(REC) Phase 1 Sub-Contractor Qual Assur(LM) FY02						
4.1.8.2.3.1 LM PRODUCT ASSURANCE IMPLEMENTATION PLAN (PAIP)															
8M0007800		Write LM PAIP	20	05OCT01A	06NOV01	8		50	Write LM PAIP						
8M0007900		Update LM PAIP prior to I-PDR & Prep PDR Mat'l	10	07NOV01	20NOV01	8		0	Update LM PAIP prior to I-PDR & Prep PDR Mat'l						
8M0008000		Update LM PAIP post PDR	10	08JAN02	22JAN02	60		0	Update LM PAIP post PDR						
8M0008100		Update LM PAIP prior for Mech-CDR	15	23JAN02	12FEB02	60		0	Update LM PAIP prior for Mech-CDR						
8M0008300		Update LM PAIP post I-CDR	5	06AUG02	12AUG02	281		0	Update LM PAIP post I-CDR						
4.1.8.2.3.2 SAFETY															
8M0008702		Collect LM inputs to LAT PHA/FMEA	10	05OCT01A	02NOV01	10		80	Collect LM inputs to LAT PHA/FMEA						

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
8M0016402		AV: Delv CDR LAT TMM Model to GSFC	0		03APR02	372		0							
8M0016500		Prepare Reports/Thermal charts for Mech-CDR	15	11APR02	01MAY02	5		0							
8M0016502		Update LAT Radiation Analysis for I-CDR	20	23MAY02	20JUN02	5		0							
8M0016504		Prepare Thermal Charts for I-CDR	10	21JUN02	05JUL02	5		0							
8M0015944	DL	(PR) Phase 2 Instrument Thermal Eng (LM) FY02(1)	1	03SEP02	03SEP02	635	E	0							
8M0015964	DL	(PR) Phase 2 Instrument Thermal Eng (LM) FY03(2)	1	01OCT02*	01OCT02	616	E	0							
8M0016506		Update Thermal Analysis w/final LAT, SC Designs	50	01OCT02	11DEC02	813		0							
8M0015954	DL	(REC) Phase 2 Instrument Thermal Eng (LM) FY03	226	30OCT02	30SEP03	616	E	0							
8M0016508		AV: Delv Final LAT TMM to GSFC	0		11DEC02	813		0							
4.1.8.4.2 RADIATOR DEVELOPMENT (LM)															
8M0016902	DL	Phase 1 Radiator Development (LM) FY01	72	02JUL01A	28SEP01A		A	100							
8M0016912	DL	(PR) Phase 1 Radiator Development (LM) FY02	1	01NOV01	01NOV01	863	E	0							
8M0016922	DL	(REC) Phase 1 Radiator Development (LM) FY02	203	04DEC01	30SEP02	863	E	0							
4.1.8.4.2.1 THERMAL															
8M0016900		Develop Radiator design and operating scenario	49	15JUN01A	16JUL01A			100							
8M0017000		Update Radiator thermal design for Mech-PDR	30	02JUL01A	30JUL01A			100							
8M0017100		Prepare Reports/Charts for Mech-PDR	19	16JUL01A	09AUG01A			100							
8M0017302		Update Radiator Thermal Design for I-PDR	30	05OCT01A	16NOV01	5		55							
4.1.8.4.2.2 MECHANICAL															
8M0017800		Provide manufacturing knowledge to design team	20	10OCT01A	07NOV01	12		75							
8M0017200		Develop radiator structural design, mount method	15	15OCT01A	14NOV01	3		65							
8M0017500		Create prelim dwg's of radiator for I-PDR	15	31OCT01A	20NOV01	3		2							
8M0017602		Update Reports, Charts for I-PDR	5	21NOV01	29NOV01	3		0							
4.1.8.4.3 GRID HEAT PIPE DEVELOPMENT (LM)															
8M0018202		Perform HP Technology Trade Study	20	26JUL01A	09AUG01A			100							
8M0018204		Analyze Thermal Performance of Grid, X-LAT HP's	20	24SEP01A	06NOV01	8		90							
8M0018206		Support Dev of HP Assy Processes	40	24SEP01A	14NOV01	2		53							
8M0018218	DL	Phase 1 Grid Heat Pipe Dev (LM) FY01	1	28SEP01A	28SEP01A		E	100							
8M0018228	DL	(PR) Phase 2 Grid Heat Pipe Dev (LM) FY02	1	01NOV01	01NOV01	863	E	0							
8M0018208		Prepare HP Report, Charts for I-PDR	10	15NOV01	30NOV01	2		0							
8M0018238	DL	(REC) Phase 2 Grid Heat Pipe Dev (LM) FY02	203	04DEC01	30SEP02	863	E	0							
4.1.8.5 THERMAL CONTROL SYSTEM (SLAC)															
4.1.8.5.1 THERMAL CONTROL SYSTEM DEVELOP (SLAC)															
8M0007102	DL	Dev. Thermal Control System Architecture for LAT	20	20SEP01A	07NOV01	2	E	50							
8M0007104	DL	Finalize Interfaces for I-PDR	10	08NOV01	21NOV01	2	E	0							
8M0007106	DL	Finalize TCS Functionality & H/W for I-PDR	10	08NOV01	21NOV01	2	E	0							
8M0019110	DL	PrepTCS Charts for I-PDR	5	26NOV01	30NOV01	2	E	0							
8M0007108	DL	Update Thermal Control Sys Design after I-PDR	20	08JAN02	05FEB02	0	E	0							
8M0019120	DL	Analyze TCS Performance	30	06FEB02	20MAR02	0	E	0							
8M0018900	DL	Develop control system prototype	20	21MAR02	17APR02	0	E	0							
8M0019000	DL	Fab, assemble, and test control system prototype	20	18APR02	15MAY02	0	E	0							
8M0019300	DL	Detail drawings, spec for hardware	30	16MAY02	27JUN02	0	E	0							
8M0019100	DL	Finalize design and assembly processes for I-CDR	10	28JUN02	12JUL02	0	E	0							
4.1.8.5.2 CONTROL SYSTEM FABRICATION (SLAC)															
8M0019400	DL	(PR) Procure flight hardware for control system	1	03MAY02	03MAY02	73	E	0							
8M0019402	DL	(REC) Procure flight hardware for control system	1	22OCT02	22OCT02	73	E	0							
8M0019500	DL	Assemble, test hardware prior to assembly	58	23OCT02	24JAN03	73	E	0							
8M0019510		IA: TCS Hardware Ready for I & T	0		24JAN03	73		0							
8M0019150		IA: TCS E-GSE Ready	0		20MAY03	30		0							
4.1.8.5.3 CONTROL INTEGRATION SUPPORT (SLAC)															
8M0019700	DL	Develop control system I&T procedures	79	16MAY02	06SEP02	30	E	0							
8M0019800	DL	Develop dummy heat loads and controls for Grid I	59	09SEP02	02DEC02	30	E	0							
8M0019900	DL	(PR) Procure GSE for control system I&T	1	03DEC02	03DEC02	30	E	0							
8M0019140	DL	Program TCS EGSE Software,Interfaces	30	03DEC02	23JAN03	82	E	0							
8M0019902	DL	(REC) Procure GSE for control system I&T	1	08APR03	08APR03	30	E	0							
8M0019130	DL	Assemble,Test TCS Hardware GSE	30	09APR03	20MAY03	30	E	0							
8M0020000	DL	Support assembly, testing on Flight Grids	80	20JUN03	13OCT03	9	A	0							
8M0020100	DL	Support testing during TCS T-Balance Test	15	24JUN04	15JUL04	92	A	0							
4.1.8.6 RADIATORS (LM)															
4.1.8.6.1 HEAT PIPE EM DEVELOPMENT (LM)															
8M0021410	DL	Phase 1 X-LAT HP EM Dev (LM) FY01	1		28SEP01A		E	100							
8M0021420	DL	(PR) Phase 1 X-LAT HP EM Dev (LM) Fy02	1	01NOV01	01NOV01	863	E	0							
8M0021430	DL	(REC) Phase 1 X-LAT HP EM Dev (LM) FY02	203	04DEC01	30SEP02	863	E	0							
4.1.8.6.1.1 HEAT PIPE EM PLANNING, ENG SUPPORT															
8M0021400		Technical support for EM HP design & Test	40	01NOV01*	08JAN02	29		0							
4.1.8.6.1.2 HEAT PIPE EM DESIGN/FAB															
8M0021900		Fab EM HP (HPPC)	30	01OCT01A	31OCT01A			100							
8M0021800		Generate drawings for EM HP	10	18OCT01A	31OCT01A			100							
8M0021902		Ver. Test EM HP (HPPC)	10	25OCT01A	07DEC01	44		25							
8M0021904		IA: EM HP ready for Delivery to SLAC	0		08JAN02	29		0							
4.1.8.6.2 RADIATOR DEVELOPMENT (LM)															
8M0022802	DL	Phase 1 Radiator Development (LM) FY01	79	21MAY01A	28SEP01A		A	100							
8M0022812	DL	(PR) Phase 1 Radiator Development (LM) FY02	1	01NOV01	01NOV01	838	E	0							
8M0022842	DL	(REC) Phase 1 Radiator Development (LM) FY02	203	04DEC01	30SEP02	838	E	0							
8M0022822	DL	(PR) Phase 2 Radiator Development (LM) FY02(1)	1	03SEP02	03SEP02	635	E	0							
8M0022892	DL	(PR) Phase 2 Radiator Development (LM) FY03(2)	1	01OCT02*	01OCT02	616	E	0							
8M0022832	DL	(REC) Phase 2 Radiator Development (LM) FY03	226	30OCT02	30SEP03	616	E	0							
8M0022852	DL	(PR) Phase 2 Radiator Development (LM) FY04	1	01OCT03	01OCT03	368	E	0							
8M0022862	DL	(REC) Phase 2 Radiator Development (LM) FY04	227	30OCT03	30SEP04	368	E	0							
8M0022872	DL	(PR) Phase 2 Radiator Development (LM) FY05	1	01OCT04	01OCT04	120	E	0							
8M0022882	DL	(REC) Phase 2 Radiator Development (LM) FY05	227	01NOV04	30SEP05	120	E	0							
4.1.8.6.2.1 THERMAL															
8M0022800		Comp Radiator therm analysis & trades After I-PD	49	08JAN02	19MAR02	26		0							
8M0023000		Prepare Reports/Charts for Mech CDR (Thermal)	10	20MAR02	02APR02	26		0							
8M0022900		Update Radiator Thermal Analysis before Mech-CDR	19	20MAR02	15APR02	26		0							
8M0023002		Finalize Radiator Thermal Analysis for I-CDR	20	23MAY02	20JUN02	5		0							
8M0023004		Update Reports, Charts for I-CDR (Thermal)	10	21JUN02	05JUL02	5		0							
4.1.8.6.2.2 STRUCTURAL															
8M0023202		Complete Radiator Struc Dsgn & Analy after I-PDR	20	08JAN02	05FEB02	5		0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
8M0023300		Update Radiator struc design from SC Mods	40	06FEB02	03APR02	5		0							
8M0023400		Prepare Reports/charts for Mech-CDR (Structural)	10	18APR02	01MAY02	5		0							
8M0023402		Finalize Radiator Struc Dsgn for I-CDR	20	23MAY02	20JUN02	5		0							
8M0023404		Update Reports, Charts for I-CDR (Struc)	10	21JUN02	05JUL02	5		0							
4.1.8.6.2.3 DESIGN															
8M0023600		Create detailed dwgs of Radiators after I-PDR	20	08JAN02	05FEB02	15		0							
8M0023700		Update detailed dwg's of radiators from SC Mods	40	06FEB02	03APR02	15		0							
8M0023800		Prepare Layouts, Charts for Mech-CDR (Design)	10	04APR02	17APR02	15		0							
8M0023802		Finalize Radiator Dtd Dwg's (Dsgn) for I-CDR	20	23MAY02	20JUN02	0		0							
8M0023804		Update Layouts, Charts for I-CDR (Dsgn)	15	21JUN02	12JUL02	0		0							
4.1.8.6.2.4 RADIATOR MANUFACTURING DESIGN SUPPORT															
4.1.8.6.2.4.1 FAB PLANNING															
8M0024004		Finalize Radiator Mfg Processes	30	08JAN02	20FEB02	45		0							
8M0024002		Radiator Post-PDR Mfg. Support	60	08JAN02	03APR02	55		0							
8M0024006		Prepare Mfg Plans for Mech-CDR	10	21FEB02	06MAR02	45		0							
4.1.8.6.2.4.2 TEST PLANNING															
8M0024010		Finalize Radiator Test Plans & Procedures	20	08JAN02	05FEB02	60		0							
8M0024008		Radiator Post-PDR Test Planning Support	60	08JAN02	03APR02	60		0							
8M0024012		Prepare Test Plans for Mech-CDR	5	06FEB02	12FEB02	60		0							
4.1.8.6.2.4.2.1															
8M0024018		Update Test Plans for I-CDR	20	23MAY02	20JUN02	15		0							
4.1.8.6.2.4.3 VIBE PLANNING															
8M0024014		Develop Vibe Test plan & Procedure	20	08JAN02	05FEB02	55		0							
8M0024016		Finalize Vibe Test Plan for Mech-CDR	10	06FEB02	20FEB02	55		0							
4.1.8.6.3 RADIATOR FAB AND TEST (LM)															
8M0024702	DL	(PR) Phase 2 Fab & Test Radiators FY04	1	01OCT03	01OCT03	368	E	0							
8M0024712		Start Radiator Fab Work	0	01OCT03		6		0							
8M0024704		Develop Radiator Fab, Assy, Test Fixturing	30	01OCT03	11NOV03	6		0							
8M0024700		Eng. Support of Radiator Fab (LM-L925)	150	01OCT03	12MAY04	56		0							
8M0024722	DL	(REC) Phase 2 Fab & Test Radiators FY04	227	30OCT03	30SEP04	368	E	0							
8M0024706		Radiator Fab, Test Fixturing	30	12NOV03	05JAN04	6		0							
8M0024710		*Procure Radiator Materials	60	12NOV03	18FEB04	36		0							
8M0024708		*Fab, Test Radiator VCHP's	60	06JAN04	31MAR04	6		0							
8M0024800		*Fab, Assemble Radiators (HPPC)	40	01APR04	26MAY04	6		0							
8M0024802		*Functional Test Radiators	20	27MAY04	24JUN04	6		0							
8M0024900		*Vibration Test (Radiators)	20	25JUN04	23JUL04	6		0							
8M0025000		*IA: Flight Radiators Ready for Delivery	0		23JUL04	6		0							
4.1.8.6.4 THERMAL CONTROLS (LM)															
8M0025200	DL	Phase 1 Thermal Control Sys Dsgn Supt (pre-PDR)	38	01AUG01A	28SEP01A		A	100							
8M0025210	DL	(PR) Phase 1 Thermal Controls-FY02	1	01NOV01	01NOV01	863	E	0							
8M0025300	DL	(REC) Phase 1 Thermal Control (pre-CDR) FY02	203	04DEC01	30SEP02	863	A	0							
4.1.8.7 GRID															
4.1.8.7.1 GRID EM DEVELOPMENT AND TESTING (SLAC)															
4.1.8.7.1.1 GRID EM CONCEPTUAL DEVELOPMENT															
8M0025600	DL	Develop EM Grid designs	20	30OCT01A	05DEC01	9	E	50							
8M0025700	DL	Prep EM designs for I-PDR	5	08NOV01	14NOV01	12	E	0							
4.1.8.7.1.2 THERMAL CONTACT TESTING															
4.1.8.7.1.2.1 TEST EQUIPMENT															
8M0026510	DL	Develop Thermal Test Dsgn After I-PDR	10	08JAN02	22JAN02	1	E	0							
8M0026508	DL	Detail Dwg's for Thermal Test H/W Equip	10	23JAN02	05FEB02	6	E	0							
8M0026504	DL	Fab, Procure Thermal Test H/W, Equip.	25	06FEB02	13MAR02	6	E	0							
8M0026506	DL	Manage Fab, Assy of Test H/W, Equip	25	06FEB02	13MAR02	26	E	0							
4.1.8.7.1.2.2 TEST SET-UP															
8M0026608	DL	FEA Analysis of Contact Test	15	23JAN02	12FEB02	6	E	0							
8M0026606	DL	Detail Contact Test Dwgs	20	23JAN02	20FEB02	1	E	0							
8M0026604	DL	Manage Fab of Test Coupons	15	21FEB02	13MAR02	26	E	0							
8M0026602	DL	Fab, Procure Thermal Test Coupons, Parts	20	21FEB02	20MAR02	1	E	0							
8M0026704	DL	Assemble & Execute Contact Tests	20	21MAR02	17APR02	1	E	0							
8M0026800	DL	Write Test Report	10	18APR02	01MAY02	1	E	0							
4.1.8.7.1.3 GRID HP EM															
8M0027202	DL	Develop Grid HP EM Design & Test Set-up	10	01NOV01	14NOV01	4	E	0							
8M0027204	DL	Detail HP Spec Dwg, Spec for Grid HP EM	10	15NOV01	30NOV01	4	E	0							
8M0027206		Order HP EM	0		30NOV01	44		0							
8M0027208	DL	Detail Dwgs for Grid HP EM Fixtures	15	03DEC01	21DEC01	4	E	0							
8M0026302	DL	Fab Grid HP EM Parts, Test Apparatus	30	02JAN02	13FEB02	4	E	0							
8M0027210	DL	Manage Fab, Assy of Grid HP EM Parts	40	02JAN02	28FEB02	24	A	0							
8M0026502		OIN: Receive Grid Heat Pipe	0		13FEB02	4		0							
8M0026600	DL	Prep, assemble, inspect Grid HP EM	10	14FEB02	28FEB02	4	E	0							
8M0027700	DL	Test Grid HP EM	20	01MAR02	28MAR02	4	E	0							
8M0027800	DL	Write HP EM Test Report	15	29MAR02	18APR02	4	E	0							
4.1.8.7.1.4 GRID MOCK-UP															
8M0027200	DL	Detail drawings for Grid Mock-up after I-PDR	12	17DEC01	10JAN02	2	E	0							
8M0027602	DL	Detail Dwg's, Processes for Mock-up Tests	10	11JAN02	25JAN02	18	E	0							
8M0027212	DL	Manage Grid Mock-up parts fab	40	11JAN02	11MAR02	28	E	0							
8M0027402	DL	(PR) Fab Grid Mock-up, Fab Fixtures	45	11JAN02	18MAR02	2	E	0							
8M0027604	DL	Fab Grid Mock-up Test Equip	20	28JAN02	25FEB02	18	E	0							
8M0027606	DL	Assemble, Test Mock-up Test Equip	10	26FEB02	11MAR02	18	E	0							
8M0027404	DL	(REC) Fab Grid Mock-up, Fab Fixtures	1	19MAR02	19MAR02	2	E	0							
8M0027600	DL	Prep, assemble, inspect Grid Mock-up	10	20MAR02	02APR02	2	E	0							
8M0027608	DL	Test Grid Mock-up	10	03APR02	16APR02	2	E	0							
8M0027610	DL	Write Test Report	10	17APR02	30APR02	2	E	0							
4.1.8.7.1.5 GRID HP PROCESS QUAL TESTING															
8M0027612	DL	Detail Dwgs.Processes for Grid HP Process Test	15	08JAN02	29JAN02	16	E	0							
8M0027614	DL	Manage Grid HP Process Test Parts, Fixture Fab	10	30JAN02	12FEB02	46	E	0							
8M0027616	DL	Fab Grid HP Process Test Parts, Fab Fixtures	20	30JAN02	27FEB02	16	E	0							
8M0027618	DL	Run Grid HP Process Tests	20	28FEB02	27MAR02	16	E	0							
8M0027620	DL	Write Test Report	10	28MAR02	10APR02	16	E	0							
4.1.8.7.1.6 CAL-GRID JOINT QUAL TESTING															
8M0027622	DL	Detail Parts, Fixture Dwg's-CAL-Grid Joint Test	15	08JAN02	29JAN02	11	E	0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year							
									FY01	FY02	FY03	FY04	FY05	FY06	FY07	
8M0027624	DL	Manage CAL-Grid Joint Test Parts, Fixture Fab	20	30JAN02	27FEB02	36	E	0								
8M0027626	DL	Fab CAL-Grid Joint Test Parts, Fab Fixtures	30	30JAN02	13MAR02	11	E	0								
8M0027628	DL	Run CAL-Grid Joint Tests	15	14MAR02	03APR02	11	E	0								
8M0027630	DL	Write Test Report	10	04APR02	17APR02	11	E	0								
4.1.8.7.1.7 CAL-GRID JOINT QUAL SHEAR TESTING																
8M0027640	DL	Dtl Parts, Fxtr Dwgs for Bolt Joint Shear Test	15	08JAN02	29JAN02	6	E	0								
8M0027650	DL	Manage Bolted Joint Test Parts, Fixture Fab	15	30JAN02	20FEB02	6	E	0								
8M0027660	DL	Fab CAL-Grid Joint Test Parts, Fab Fixtures	20	21FEB02	20MAR02	6	E	0								
8M0027670	DL	Run Bolted Joint Test	15	21MAR02	10APR02	6	E	0								
8M0027680	DL	Write Test Report	10	11APR02	24APR02	6	E	0								
4.1.8.7.2 GRID/X-LAT PLATE DESIGN FINALIZATION (SLAC)																
8M0028000	DL	Update Grid X-LAT Plt design after EM Tests	19	02MAY02	29MAY02	1	E	0								
8M0028300	DL	Update/finalize Grid/X-LAT Plt dsgr before I-CDR	30	23MAY02	05JUL02	5	E	0								
8M0028602	DL	Finalize X-LAT Plt Assy Proc/Proced for I-CDR	10	30MAY02	12JUN02	21	E	0								
8M0028400	DL	Detail Grid drawings for I-CDR	20	30MAY02	26JUN02	11	E	0								
8M0028402	DL	Detail X-LAT Plt Dwgs for I-CDR	20	30MAY02	26JUN02	11	E	0								
8M0028600	DL	Finalize Grid fab process/proced for I-CDR	20	30MAY02	26JUN02	11	E	0								
8M0028702	DL	Close Out Grid/X-LAT Plt Dsgn Actions from I-CDR	10	06AUG02	19AUG02	66	E	0								
8M0028704	DL	Complete Grid/X-LAT Test Fix./Proc after I-CDR	30	06AUG02	17SEP02	0	E	0								
8M0028700	DL	Engineering support of Grid fabrication	110	18SEP02	05MAR03	46	A	0								
4.1.8.7.3 FLIGHT GRID FABRICATION (SLAC)																
4.1.8.7.3.1 GRID MATL PROCUREMENT																
8M0028910		Start Grid Mat'l Procurement	0	18SEP02		0		0								
8M0028900	DL	(PR) Procure raw material for Grids	60	18SEP02	12DEC02	0	E	0								
8M0028902	DL	(REC) Procure raw material for Grids	1	13DEC02	13DEC02	0	E	0								
8M0029000	DL	(PR) Test, inspect raw material for Grids	30	16DEC02	05FEB03	50	E	0								
8M0029002	DL	(REC) Test, inspect raw material for Grids	1	06FEB03	06FEB03	50	E	0								
4.1.8.7.3.2 GRID FAB																
8M0029012		Start Grid Fab	0	18SEP02		23		0								
8M0029100		Grid procurement process	38	18SEP02	08NOV02	23		0								
8M0029400	DL	*(PR) Fabricate Flight Grid	80	16DEC02	17APR03	0	E	0								
8M0029402	DL	(REC) Fabricate Flight Grid	1	18APR03	18APR03	0	E	0								
8M0029500	DL	*Inspect, prep Flight Grid	14	21APR03	08MAY03	0	E	0								
8M0029520		AV: Flight Grid ready for ACD Fit Test	0		08MAY03	0		0								
4.1.8.7.4 CROSS-LAT THERMAL PLATE FAB (SLAC)																
8M0029502		Order Cross-LAT HP's	0		17SEP02	100		0								
8M0029526		Start X-Lat Plate Fab	0	18SEP02		59		0								
8M0029506	DL	Fab, Assemble X-LAT Plate Assy Tooling	40	18SEP02	12NOV02	100	E	0								
8M0029516	DL	*(PR) Parts for X-LAT Plates	80	18SEP02	21JAN03	59	E	0								
8M0029518	DL	(REC) Parts for X-LAT Plates	1	22JAN03	22JAN03	59	E	0								
8M0029504	DL	Inspect, Prep X-LAT Plate Parts	20	23JAN03	20FEB03	59	E	0								
8M0029510		*IN: Receive X-LAT HP's	0		20FEB03	79		0								
8M0029508	DL	Qual Assy Processes	20	21FEB03	20MAR03	59	E	0								
8M0029512	DL	*Assemble X-LAT Thermal Plates	15	21MAR03	10APR03	59	E	0								
8M0029514	DL	*Inspect X-LAT Thermal Plates	15	11APR03	01MAY03	59	E	0								
4.1.8.7.5 GRID/X-LAT HEAT PIPE DEVELOPMENT & FAB (LM)																
8M0030114	DL	(PR) Phase 1 Grid Heat Pipe Fab (LM) FY02	1	01NOV01	01NOV01	635	E	0								
8M0030124	DL	(REC) Phase 1 Grid Heat Pipe Fab (LM) FY02	203	04DEC01	30SEP02	635	E	0								
8M0030134	DL	(PR) Phase 2 Grid Heat Pipe Fab (LM) FY02(1)	1	03SEP02	03SEP02	635	E	0								
8M0030154	DL	(PR) Phase 2 Grid Heat Pipe Fab (LM) FY03(2)	1	01OCT02*	01OCT02	616	E	0								
8M0030144	DL	(REC) Phase 2 Grid Heat Pipe Fab (LM) FY03	226	30OCT02	30SEP03	616	E	0								
4.1.8.7.5.1 ENGINEERING																
8M0030300		Update/finalize HP design after Mech-CDR	20	23MAY02	20JUN02	5		0								
8M0030104		Update Grid, X-LAT HP Dsgn & Analy for I-CDR	20	30MAY02	26JUN02	1		0								
8M0030302		Prep for I-CDR	10	21JUN02	05JUL02	5		0								
8M0030200		Finalize Heat Pipe Fab Proc/Proced for I-CDR	10	27JUN02	11JUL02	1		0								
8M0030400		Finalize HP fab processes/procedures after I-CDR	9	06AUG02	16AUG02	24		0								
8M0030500		Engineering support of Heat Pipe fab, testing	72	19AUG02	29NOV02	129		0								
4.1.8.7.5.2 GRID HP'S																
8M0030502		Prep Fixtures, Material, for Grid Heat Pipe Fab	20	19AUG02	16SEP02	24		0								
8M0030602		* Fab Grid Heat Pipes	40	17SEP02	11NOV02	24		0								
8M0030700		*Test Grid Heat Pipes	20	12NOV02	11DEC02	24		0								
8M0030800		IA: Grid Heat Pipes Ready for Delivery	0		11DEC02	24		0								
4.1.8.7.5.3 X-LAT H.P.'s																
8M0030802		Prep Fixtures, Material, for X-LAT Heat Pipe Fab	20	18SEP02	15OCT02	100		0								
8M0030900		*Fab X-LAT Heat Pipes	40	16OCT02	12DEC02	100		0								
8M0031000		*Test X-LAT Heat Pipes	20	13DEC02	21JAN03	100		0								
8M0031100		IA: X-LAT Heat Pipes Ready for Delivery	0		21JAN03	100		0								
4.1.8.8 SUBSYSTEM INTEGRATION AND TEST																
4.1.8.8.1 GRID/X-LAT PLATE ASSEMBLY & TEST (SLAC)																
4.1.8.8.1.1 ENGINEERING (SLAC)																
8M0031710		Mech Qual Readiness Review	0		31OCT01	341		0								
8M0032012		Mech (Grid) Qual Review	0		31OCT01	469		0								
8M0034302	DL	Update Assy, Test Plan for I-CDR	20	23MAY02	20JUN02	15	E	0								
8M0031602	DL	Develop Grid Assy Processes, Dwgs After I-PDR	10	30MAY02	12JUN02	6	E	0								
8M0031604	DL	Develop Grid Test Plan for I-CDR	10	13JUN02	26JUN02	6	E	0								
8M0031606	DL	Dev X-LAT Plate Test Plan for I-CDR	10	13JUN02	26JUN02	6	E	0								
8M0031700	DL	Detail Grid assembly dwgs for I-CDR	10	13JUN02	26JUN02	6	E	0								
8M0034300	DL	Prep I-CDR Materials	5	27JUN02	03JUL02	6	E	0								
8M0035000	DL	Dtl X-LAT Plt Therm Struc Tst Fixtrs after I-CDR	15	15JUL02	02AUG02	132	E	0								
8M0034304	DL	Detail Grid Assy Fixture Dwgs after I-CDR	20	15JUL02	09AUG02	35	E	0								
8M0035010	DL	Write X-LAT Plate Thermal, Struc Test Procedures	10	05AUG02	16AUG02	216	E	0								
8M0034306	DL	Detail Grid Test Fixtures after I-CDR	30	12AUG02	23SEP02	35	E	0								
8M0035200	DL	Eng supt of X-LAT Plate Thermal, Struc Tests	50	19AUG02	28OCT02	216	E	0								
8M0034308	DL	Write Grid Struc Test Procedures	15	24SEP02	14OCT02	91	E	0								
8M0031900	DL	Engineering support of Grid ass'y, test (ACD)	136	15OCT02	07MAY03	91	A	0								
8M0035300	DL	Write X-LAT Plate Test Report	15	23JUN03	14JUL03	59	E	0								
8M0032000	DL	Revise drawings to show Grid as-built	28	28JUL03	04SEP03	36	E	0								
8M0032002	DL	Update FEA Model after Grid Struc Test	20	29AUG03	26SEP03	0	E	0								

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
8M0032004	DL	Write Grid Test Report	20	29SEP03	24OCT03	0	E	0				Write Grid Test Report			
4.1.8.8.1.2 GRID ASSEMBLY & TEST (SLAC)															
8M0032200	DL	(PR) Fab, procure assembly fixtures, Test Equip	50	24SEP02	04DEC02	35	E	0				(PR) Fab, procure assembly fixtures, Test Equip			
8M0032212	DL	(PR) Silicone Adhesive	60	24SEP02	18DEC02	81	E	0				(PR) Silicone Adhesive			
8M0032222	DL	(REC) Silicone Adhesive	1	19DEC02	19DEC02	81	E	0				(REC) Silicone Adhesive			
8M0032404		IN: Receive Thermal Control System H/W	0		24JAN03	73		0				IN: Receive Thermal Control System H/W			
8M0032202	DL	(REC) Fab, procure assembly fixtures, Test Equip	1	05FEB03	05FEB03	35	E	0				(REC) Fab, procure assembly fixtures, Test Equip			
8M0032300	DL	Assemble, Test Fixtures, Test Equip	20	06FEB03	06MAR03	35	E	0				Assemble, Test Fixtures, Test Equip			
8M0032400	DL	Trial run assembly procedures	10	07MAR03	20MAR03	35	E	0				Trial run assembly procedures			
8M0032402		IN: Receive Grid Heat Pipes	0		04APR03	24		0				IN: Receive Grid Heat Pipes			
8M0033300	DL	Prep Flight Grid, HP's for assembly	10	09MAY03	22MAY03	0	E	0				Prep Flight Grid, HP's for assembly			
8M0033400	DL	*Assemble heat pipes on Flight Grid	14	23MAY03	12JUN03	0	E	0				*Assemble heat pipes on Flight Grid			
8M0033500	DL	*Inspect, test Flight Grid assembly	5	13JUN03	19JUN03	0	E	0				*Inspect, test Flight Grid assembly			
8M0033600	DL	*Integrate heaters, thermistors	10	20JUN03	03JUL03	0	E	0				*Integrate heaters, thermistors			
8M0033700	DL	*Functional Test heaters, thermistors	5	07JUL03	11JUL03	0	E	0				*Functional Test heaters, thermistors			
8M0033800	DL	Survey Grid	10	14JUL03	25JUL03	0	E	0				Survey Grid			
8M0037000	DL	Prep Flight Grid for structural test	9	28JUL03	07AUG03	0	E	0				Prep Flight Grid for structural test			
8M0037100	DL	*Structural test Flight Grid (load)	15	08AUG03	28AUG03	0	E	0				*Structural test Flight Grid (load)			
8M0037200	DL	Break down Grid Test Set-ups	3	29AUG03	03SEP03	23	E	0				Break down Grid Test Set-ups			
8M0037102	DL	Integrate X-LAT Plates	4	04SEP03	09SEP03	23	E	0				Integrate X-LAT Plates			
8M0037300	DL	Final inspect, survey Flight Unit	10	10SEP03	23SEP03	23	E	0				Final inspect, survey Flight Unit			
8M0037302		*AV: Grid Assy RFI	0		24OCT03	0		0				*AV: Grid Assy RFI			
8M0037310		Mech (Grid) RFI's	0		24OCT03	0		0				Mech (Grid) RFI's			
4.1.8.8.1.3 X-LAT THERMAL PLATE TESTING (SLAC)															
8M0036800	DL	(PR) Procure X-LAT Test Fixtures, Equip	40	05AUG02	30SEP02	132	E	0				(PR) Procure X-LAT Test Fixtures, Equip			
8M0036802	DL	(REC) X-LAT Test Fixtures, Equip	1	17DEC02	17DEC02	132	E	0				(REC) X-LAT Test Fixtures, Equip			
8M0036900	DL	Assemble Test Fixtures, Equip	15	18DEC02	16JAN03	132	E	0				Assemble Test Fixtures, Equip			
8M0036902	DL	Trial Run X-LAT Structural Test	10	02MAY03	15MAY03	59	E	0				Trial Run X-LAT Structural Test			
8M0036904	DL	*Structural Test X-LAT Plates (Load, Proof)	10	16MAY03	30MAY03	59	E	0				*Structural Test X-LAT Plates (Load, Proof)			
8M0036914	DL	Trial run X-LAT thermal-vac test	5	02JUN03	06JUN03	59	E	0				Trial run X-LAT thermal-vac test			
8M0036916	DL	*Thermal Test X-LAT Plates (T-VAC)	10	09JUN03	20JUN03	59	E	0				*Thermal Test X-LAT Plates (T-VAC)			
8M0036908	DL	Break Down X-LAT Test Set-Ups	2	23JUN03	24JUN03	72	E	0				Break Down X-LAT Test Set-Ups			
8M0036910		AV: X-LAT Thermal Plates RFI	0		14JUL03	59		0				AV: X-LAT Thermal Plates RFI			
4.1.8.8.4 TCS PROTOFLIGHT TESTING (LM)															
8M0037804	DL	Phase 1 TCS Thermal Testing (LM) FY01	247	02OCT00A	28SEP01A		A	100				Phase 1 TCS Thermal Testing (LM) FY01			
8M0037904		Mech (TCS) Qual Review	0		31OCT01	755		0				Mech (TCS) Qual Review			
8M0037814	DL	(PR) Phase 2 TCS Thermal Testing (LM) FY02	1	01NOV01	01NOV01	838	E	0				(PR) Phase 2 TCS Thermal Testing (LM) FY02			
8M0037824	DL	(REC) Phase 2 TCS Thermal Testing (LM) FY02	203	04DEC01	30SEP02	838	E	0				(REC) Phase 2 TCS Thermal Testing (LM) FY02			
8M0037802		Prep TCS Therm test plan & Mech-CDR charts	10	21FEB02	06MAR02	45		0				Prep TCS Therm test plan & Mech-CDR charts			
8M0037900		Finalize TCS Test Plans for I-CDR	10	23MAY02	06JUN02	25		0				Finalize TCS Test Plans for I-CDR			
8M0037902		Develop TB Test Thermal Model After I-CDR	30	06AUG02	17SEP02	323		0				Develop TB Test Thermal Model After I-CDR			
8M0037834	DL	(PR) Phase 2 Thermal Testing (LM) FY02(1)	1	03SEP02	03SEP02	635	E	0				(PR) Phase 2 Thermal Testing (LM) FY02(1)			
8M0038000		Detail TV/TB Test GSE	40	18SEP02	12NOV02	323		0				Detail TV/TB Test GSE			
8M0037894	DL	(PR) Phase 2 Thermal Testing (LM) FY03(2)	1	01OCT02*	01OCT02	616	E	0				(PR) Phase 2 Thermal Testing (LM) FY03(2)			
8M0037844	DL	(REC) Phase 2 Thermal Testing (LM) FY03	226	30OCT02	30SEP03	616	E	0				(REC) Phase 2 Thermal Testing (LM) FY03			
8M0038400		Finalize Test Configuration Thermal Analysis	10	13NOV02	28NOV02	412		0				Finalize Test Configuration Thermal Analysis			
8M0038500		Write Thermal Test Procedure	30	13NOV02	06JAN03	392		0				Write Thermal Test Procedure			
8M0038504		IN: Receive TCS GSE for Test	0		20MAY03	298		0				IN: Receive TCS GSE for Test			
8M0037854	DL	(PR) Phase 2 Thermal Testing (LM) FY04	1	01OCT03	01OCT03	368	E	0				(PR) Phase 2 Thermal Testing (LM) FY04			
8M0038010		Start TCS Hardware Fab	0	01OCT03		107		0				Start TCS Hardware Fab			
8M0038200		Fabricate TV/TB GSE	87	01OCT03	12FEB04	107		0				Fabricate TV/TB GSE			
8M0037864	DL	(REC) Phase 2 Thermal Testing (LM) FY04	227	30OCT03	30SEP04	368	E	0				(REC) Phase 2 Thermal Testing (LM) FY04			
8M0038300		Safety Check TV/TB GSE	10	30JAN04	12FEB04	107		0				Safety Check TV/TB GSE			
8M0038506		IN: T-VAC Chamber Available	0		15JUL04*	0		0				IN: T-VAC Chamber Available			
8M0038502		IN: Receive Radiators, Inspect	0		23JUL04	6		0				IN: Receive Radiators, Inspect			
8M0038900		*Set up TV/TB Test	19	26JUL04	19AUG04	6		0				*Set up TV/TB Test			
8M0039000		*Run T-Balance Test	20	20AUG04	17SEP04	6		0				*Run T-Balance Test			
8M0039300		Ship Radiators to SLAC	10	20SEP04	01OCT04	41		0				Ship Radiators to SLAC			
8M0039100		Correlate and update models after testing	25	20SEP04	22OCT04	6		0				Correlate and update models after testing			
8M0037874	DL	(PR) Phase 2 Thermal Testing (LM) FY05	1	01OCT04	01OCT04	120	E	0				(PR) Phase 2 Thermal Testing (LM) FY05			
8M0039200		Write test reports	20	25OCT04	19NOV04	6		0				Write test reports			
8M0037884	DL	(REC) Phase 2 Thermal Testing (LM) FY05	227	01NOV04	30SEP05	120	E	0				(REC) Phase 2 Thermal Testing (LM) FY05			
8M0039400		TCS testing complete	0		19NOV04	6		0				TCS testing complete			
8M0039500		AV: Radiators Ready for Mission I&T	0		19NOV04	6		0				AV: Radiators Ready for Mission I&T			
4.1.8.8.5 THERMAL ENGINEERING SUPPORT (SLAC)															
8M0039700	DL	Develop TCS thermal test plan for Mech-CDR	5	19APR02	25APR02	4	E	0				Develop TCS thermal test plan for Mech-CDR			
8M0039900	DL	Prep Charts for Mech-CDR	5	26APR02	02MAY02	4	E	0				Prep Charts for Mech-CDR			
8M0040000	DL	Finalize test plans and equipment for I-CDR	20	07JUN02	05JUL02	493	E	0				Finalize test plans and equipment for I-CDR			
8M0040100	DL	Write thermal test procedures, spec's	20	13NOV02	12DEC02	402	E	0				Write thermal test procedures, spec's			
8M0040200	DL	Eng, FEA analysis support of thermal testing	23	26JUL04	25AUG04	27	A	0				Eng, FEA analysis support of thermal testing			
8M0040300	DL	Correlate and update FEA models after testing	20	20SEP04	15OCT04	11	E	0				Correlate and update FEA models after testing			
8M0040400	DL	Write TCS thermal test reports	20	18OCT04	12NOV04	11	E	0				Write TCS thermal test reports			
4.1.8.9 LAT I&T SUPPORT															
4.1.8.9.1 LAT INTEGRATION SUPPORT (SLAC)															
8M0040700		Start LAT integration prep	0	05JAN04		102		0				Start LAT integration prep			
8M0040800	DL	Support LAT integration	100	05JAN04	25MAY04	102	A	0				Support LAT integration			
8M0040900	DL	Revise drawings to show as-built	40	08JUL04	01SEP04	73	E	0				Revise drawings to show as-built			
4.1.8.9.2 LAT STRUCTURAL TEST SUPPORT (SLAC)															
8M0041100		Deliver LAT to Structural test contractor	0	13JUL04*		42		0				Deliver LAT to Structural test contractor			
8M0041200	DL	Eng, FEA analysis support of LAT struc testing	29	13JUL04	20AUG04	42	A	0				Eng, FEA analysis support of LAT struc testing			
8M0041300	DL	Update procedures, write reports after test	20	23AUG04	20SEP04	52	E	0				Update procedures, write reports after test			
8M0041400	DL	Update FEA model after test	30	23AUG04	04OCT04	42	E	0				Update FEA model after test			
8M0041500	DL	Prep for I-PSR	9	05OCT04	15OCT04	42	E	0				Prep for I-PSR			
4.1.8.9.3 LAT THERMAL-VACUUM TEST SUPPORT (SLAC)															
8M0041700		Deliver LAT to T-V test contractor	0	15SEP04		20		0				Deliver LAT to T-V test contractor			
8M0041800	DL	Eng, FEA analysis support of LAT Thermal Testing	20	15SEP04	12OCT04	20	A	0				Eng, FEA analysis support of LAT Thermal Testing			
8M0041900	DL	Update procedures, write reports after test	10	13OCT04	26OCT04	30	E	0				Update procedures, write reports after test			
8M0042000	DL	Finalize Thermal Model for I-PSR	20	13OCT04	09NOV04	20	E	0				Finalize Thermal Model for I-PSR			
8M0042100	DL	Prep for I-PSR	5	10NOV04	16NOV04	20	E	0				Prep for I-PSR			

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year								
									FY01	FY02	FY03	FY04	FY05	FY06	FY07		
4.1.8.9.4 RESERVED																	
8M0042110		NOT USED	1	01NOV01	01NOV01	1,086		0									
4.1.8.A MISSION I&T SUPPORT																	
4.1.8.A.1 SC/LV I&T SUPPORT (SLAC)																	
8M0043600	DL	Engineering support at SC contractor	100	23MAR05	11AUG05	96	A	0									
8M0043700		SC I&T support complete	0		11AUG05	96		0									
8M0043800	DL	Engineering support at KSC	40	04OCT05	30NOV05	60	A	0									
8M0043900		LV I&T support complete	0	01DEC05		60		0									
4.1.8.A.2 POST LAUNCH ENGINEERING SUPPORT (SLAC)																	
8M0044200	DL	Engineering support at SLAC	19	02MAR06	28MAR06	3	A	0									
4.1.8.A.3 MISSION THERMAL TEST SUPPORT (LM)																	
8M0044402	DL	(PR) Phase 2 Mission Thermal Test Supt FY05	1	01OCT04*	01OCT04	120	E	0	(PR) Phase 2	Mission Thermal Test Supt FY05							
8M0044412	DL	(REC) Phase 2 Mission Thermal Test Supt FY05	227	01NOV04	30SEP05	120	E	0									(REC) Phase 2 M
8M0044500		Engineering support at SC contractor	100	23MAR05	11AUG05	96		0									
8M0044600		SC I&T support complete	0	12AUG05		96		0									
8M0044422	DL	(PR) Mission Thermal Test Supt (LM) FY06	1	03OCT05	03OCT05	0	E	0									
8M0044700		Engineering support at KSC	40	04OCT05	30NOV05	60		0									
8M0044432	DL	(REC) Mission Thermal Test Supt (LM) FY06	99	01NOV05	31MAR06	0	E	0									
8M0044800		LV I&T support complete	0	01DEC05		60		0									
4.1.8.A.4 POST-LAUNCH THERMAL ENG (LM)																	
8M0045100		Thermal engineering support at LM	19	02MAR06	28MAR06	3		0									
8M0045200		Finish	0		31MAR06	0		0									Finish

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp		FY01	FY02	FY03	FY04	FY05	FY06	FY07
4.1.9 INSTRUMENT INTEGRATION AND TESTING																
9I1950000		ND: EM from Calorimeter to I&T	0		29AUG03	637		0								
9I000025		ND: Flight Grid ready for Integration-Mech	0		02JAN04	0		0								
9I000075		LAT Assembly Readiness Review	0		02JAN04	0		0								
9I000020		Calibration unit Beam Test complete	0		15MAR04	508		0								
4.1.9.1 INTEGRATION & TEST MANAGEMENT																
4.1.9.1.1 I & T MILESTONES																
9I001700		Ready for I-PDR	0	03DEC01*		0		0								
9I001710		AV: Online System Spec from I&T to IOC	0		28MAR02	24		0								
9I001800		Ready for I-CDR	0	05JUN02*		0		0								
9I001720		AV: Calibration Unit Beam Test from I&T to IOC	0	16JAN04		0		0								
9I001730		AV: LAT EM/EMC Test from I&T to IOC	0	23JUN04		33		0								
9I001740		AV: LAT Vib/Acoustic Test from I&T to IOC	0	30AUG04		1		0								
9I001760		AV: LAT Performance Test from I&T to IOC	0	02SEP04		38		0								
9I001750		AV: LAT Thermal Test from I&T to IOC	0	22SEP04		0		0								
9I001900		ready for I-PSR	0	10JAN05		30		0								
9I002000		AV: LAT RFI to SC	0		22MAR05*	0		0								
9I002100		Launch	0		01MAR06*	0		0								
4.1.9.1.2 MANAGEMENT AND ENGINEERING																
9I001200		Integration Manager	34*	13AUG01A	28SEP01A			100								
9I001300		Integration Engineer	34*	13AUG01A	28SEP01A			100								
9I001400		Integration Supervisor	1,088*	01OCT01A	01MAR06	0		10								
9IN0000000		Integration Manager	1,087	01NOV01	31MAR06	0		0								
9IN0000010		Integration Engineer	1,087	01NOV01	31MAR06	0		0								
9IN0000020		Coordinator	1,087	01NOV01	31MAR06	0		0								
4.1.9.1.3 TRAVEL																
9I002600		Travel to LAT Reviews/Meetings	247*	02OCT00A	28SEP01A			100								
9I002700		Contractor, Other Institution Visits	247*	02OCT00A	28SEP01A			100								
9IN0000030	DL	\$FY02\$ Labor-DOE	247	01OCT01A	30SEP02	863	A	9								
9IN0000090	DL	\$FY02\$ M&S-NASA	247	01OCT01A	30SEP02	863	A	9								
9IN1300000		Travel to LAT Reviews/Meetings	757*	01OCT01A	21OCT04	331		3								
9IN1300010		Contractor, Other Institution Visits	1,004*	01OCT01A	20OCT05	106		2								
9I002400		Travel to I-CDR	4	05JUN02	10JUN02	941		0								
9IN0000050	DL	\$FY03\$ Labor-DOE	247	01OCT02*	30SEP03	616	A	0								
9IN0000100	DL	\$FY03\$ M&S-NASA	247	01OCT02*	30SEP03	616	A	0								
9IN0000060	DL	\$FY04\$ Labor-DOE	248	01OCT03*	30SEP04	368	A	0								
9IN0000110	DL	\$FY04\$ M&S-NASA	248	01OCT03*	30SEP04	368	A	0								
9I002900		Travel for LAT Env Testing	20	02AUG04	27AUG04	57		0								
9I002800		DELETE--Travel for Cal Unit Testing Support	8	30AUG04	09SEP04	383		0								
9IN0000070	DL	\$FY05\$ Labor-DOE	248	01OCT04*	30SEP05	120	A	0								
9IN0000120	DL	\$FY05\$ M&S-NASA	248	01OCT04*	30SEP05	120	A	0								
9I002500		Travel to I-PSR	4	10JAN05	13JAN05	301		0								
9I003000		Travel for S/C I&T	19	23MAR05	18APR05	146		0								
9IN0000040	DL	\$FY06\$ M&S-NASA	120	03OCT05*	31MAR06	0	A	0								
9IN0000080	DL	\$FY06\$ Labor-DOE	120	03OCT05*	31MAR06	0	A	0								
9I003100		Travel for LV I&T	19	02MAR06	28MAR06	2		0								
4.1.9.1.4 I & T SUPPORT																
9I003300		Computers, Printers, Software, etc	1,104*	02OCT00A	24MAR05	252		25								
4.1.9.2 RELIABILITY AND QUALITY ASSURANCE																
4.1.9.2.1 RELIABILITY																
9I003600		Reliability Analysis FY01	106*	01MAY01A	28SEP01A			100								
9I2N000000		Reliability Analysis FY02	82*	01OCT01A	05FEB02	1,028		28								
4.1.9.2.2 QUALITY ASSURANCE																
9I004020	DL	\$FY02\$ Labor and M&S-NASA	247	01OCT01A	30SEP02	863	A	10								
9I003800		(PR) Training Development and Execution	1	05JUN02	05JUN02	317		0								
9I003810		(REC) Training Development and Execution	1	06JUN02	06JUN02	317		0								
9I004030	DL	\$FY03\$ Labor and M&S-NASA	247	01OCT02*	30SEP03	616	A	0								
9I004000		(PR) Calibration Services	1	03APR03	03APR03	253		0								
9I003900		Training Time for Tech's	5	03APR03	09APR03	193		0								
9I004010		(REC) Calibration Services	1	27JUN03	27JUN03	253		0								
4.1.9.3 I & T PREPARATION																
4.1.9.3.1 I & T DEVELOPMENT																
9I004500		Prep I&T I-PDR Material	43*	01OCT01A	30NOV01	0		52								
9I004910	DL	\$FY02\$ Labor-NASA	247	01OCT01A	30SEP02	863	A	10								
9I004600		Conceptual Design of I&T GSE After I-PDR	35	03DEC01	30JAN02	6		0								
9I004920		AV: Prototype EGSE to ACD	1	15MAR02*	15MAR02	0		0								
9I004610		AV: MGSE Requirements for ACD	0		22MAR02*	0		0								
9I004620		AV: SLAC Facilities Spec to ACD	0		22MAR02*	0		0								
9I004900		Prep I&T I-CDR Material	10	10MAY02	23MAY02	7		0								
9I004930		AV: EM1 EGSE to ACD	1	01JUL02*	01JUL02	0		0								
9I004940		AV: EM2 EGSE to ACD	1	03MAR03*	03MAR03	0		0								
4.1.9.3.2 CALIBRATION TEST DEVELOPMENT																
9I005310	DL	\$FY02\$ Labor-NASA	247	01OCT01A	30SEP02	863	A	8								
9I005100		Conceptual Design Calibration Equip	55	03DEC01	28FEB02	172		0								
9I005200		Prototype, Test Calibration Fixtures	40	31JAN02	28MAR02	24		0								
9I005300		Finalize Calibration Plans for I-CDR	30	01MAR02	11APR02	172		0								
4.1.9.3.3 INTEGRATION FACILITIES																
4.1.9.3.3.1 I & T FACILITY EQUIPMENT																
9I005600		Layout I&T Facility	28	31JAN02	12MAR02	197		0								
9I005700		(PR) Procure Computers	1	13MAR02	13MAR02	246		0								
9I005800		(PR) Procure Facility Equipment	1	13MAR02	13MAR02	197		0								
9I005702		(REC) Procure Computers	1	29APR02	29APR02	246		0								
9I005802		(REC) Procure Facility Equipment	1	10JUN02	10JUN02	197		0								
9I005900		Assemble, Test Equipment	20	11JUN02	09JUL02	197		0								
9I006000		Set up I&T Facility	20	10JUL02	06AUG02	197		0								
9I006100		Run cables and networking	20	07AUG02	04SEP02	198		0								
4.1.9.3.3.2 I & T FACILITY SUPPORT																
9I006620	DL	\$FY02\$ Labor & M&S-NASA	247	01OCT01A	30SEP02	863	A	10								
9I006300		Tech Support of Facilities	683	07AUG02	12MAY05	198		0								

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year								
									FY01	FY02	FY03	FY04	FY05	FY06	FY07		
9I006400		Misc Clean Rm/Facility Supplies	683	07AUG02	12MAY05	198		0									
9I006500		Contamination Monitoring	683	07AUG02	12MAY05	198		0									
9I006600		(PR) Facility Inspect, Cal Subcontracts	683	07AUG02	12MAY05	197		0									
9I006630	DL	\$FY03\$ Labor & M&S-NASA	247	01OCT02*	30SEP03	616	A	0									
9I006640	DL	\$FY04\$ Labor & M&S-NASA	247	01OCT03*	29SEP04	369	A	0									
9I006650	DL	\$FY05\$ Labor & M&S-NASA	247	01OCT04*	29SEP05	121	A	0									
9I006610		(REC) Facility Inspect, Cal Subcontracts	1	13MAY05	13MAY05	197		0									
4.1.9.4 CALIBRATION UNIT I & T																	
4.1.9.4.1 ENGINEERING																	
9I007818	DL	\$FY02\$ Labor-NASA	247	01OCT01A	30SEP02	863	A	9									
9I006900		Develop Cal Unit I&T Procedures, GSE	38	31JAN02	26MAR02	6		0									
9I007000		Detail Cal. Unit Grid Support	14	27MAR02	15APR02	6		0									
9I007100		Detail Cal. Unit Grid Mounting Stand	19	16APR02	10MAY02	6		0									
9I007200		Prep Cal Unit I&T Plans for I-CDR	10	13MAY02	24MAY02	6		0									
9I007300		Update Cal. Unit I&T Plans After I-CDR	39	05JUN02	30JUL02	128		0									
9I007400		Detail Cal. Unit Base Isolated Pallet	20	31JUL02	27AUG02	223		0									
9I007700		Design Cal Unit Beam Test Facility	58	31JUL02	21OCT02	144		0									
9I007500		Detail Cal. Unit Dry Transport Box	10	28AUG02	11SEP02	223		0									
9I007600		Detail Cal. Unit Rigging/Forklift Harness	8	12SEP02	23SEP02	223		0									
9I007828	DL	\$FY03\$ Labor-NASA	247	01OCT02*	30SEP03	616	A	0									
9I007800		Finalize Cal. Unit I&T Procedures	14	22OCT02	08NOV02	182		0									
9I006910		ND: Doc of Requirements for Backsplash Tst	0	06JAN03*		803		0									
9I007804		Prep for CAL Unit I & T Review	20	15JAN03	12FEB03	144		0									
9I007900		Support Cal. Unit I&T	195	15JAN03	21OCT03	128		0									
9I007808		CAL Unit I & T Review	2	13FEB03	14FEB03	144		0									
9I007838	DL	\$FY04\$ Labor-NASA	248	01OCT03*	30SEP04	368	A	0									
4.1.9.4.2 EQUIPMENT AND PREPARATION																	
9I008812	DL	\$FY02\$ M&S-NASA	247	01OCT01A	30SEP02	863	A	9									
9I008100		(PR) Procure Cal. Unit Grid Support	1	31JUL02	31JUL02	128		0									
9I008200		(PR) Procure Cal. Unit Grid Mounting Stand	1	31JUL02	31JUL02	142		0									
9I008400		(PR) Procure Cal. Unit Base Isolated Pallet	1	24SEP02	24SEP02	223		0									
9I008500		(PR) Procure Cal. Unit Refrig Dry Transport Box	1	24SEP02	24SEP02	223		0									
9I008600		(PR) Procure Cal. Unit Rigging/Forklift Harness	1	24SEP02	24SEP02	223		0									
9I008822	DL	\$FY03\$ Labor & M&S-NASA	247	01OCT02*	30SEP03	616	A	0									
9I008202		(REC) Procure Cal. Unit Grid Mounting Stand	1	21OCT02	21OCT02	142		0									
9I008800		(PR) Procure Beam Test Facilities Equip	1	22OCT02	22OCT02	144		0									
9I008102		(REC) Procure Cal. Unit Grid Support	1	08NOV02	08NOV02	128		0									
9I008300		Assemble Cal. Unit Integration Fixtures	28	11NOV02	20DEC02	128		0									
9I008402		(REC) Procure Cal. Unit Base Isolated Pallet	1	09DEC02	09DEC02	223		0									
9I008502		(REC) Procure Cal. Unit Refrig Dry Transport Box	1	09DEC02	09DEC02	223		0									
9I008602		(REC) Procure Cal. Unit Rigging/Forklift Harness	1	09DEC02	09DEC02	223		0									
9I008700		Assemble Cal. Unit Transport, Storage Equip	29	10DEC02	29JAN03	223		0									
9I008802		(REC) Procure Beam Test Facilities Equip	1	14JAN03	14JAN03	144		0									
4.1.9.4.3 CALIBRATION UNIT INTEGRATION AND TEST																	
9I009000		Prep Cal. Grid for Integration	10	23DEC02	14JAN03	128		0									
9I009210		ND: EGSE Qual Unit Release for I&T	0		06JUN03*	85		0									
9I009030		ND: EM2 TEM Assy A, B	0		15AUG03	17		0									
9I009040		ND: EM 2 TEM PS Assy A,B	0		15AUG03	17		0									
9I009100		ND: TKR Modules A and B RFI	0		15AUG03	17		0									
9I009102		ND: CAL Modules A and B RFI	0		15AUG03	17		0									
9I009200		Integrate TKR/CAL Modules A and B	19	18AUG03	12SEP03	17		0									
9I009300		Functional/EMI Test Cal. Towers A and B	15	15SEP03	03OCT03	17		0									
9I009400		Prep Cal Grid for Integrating Flight Towers	4	06OCT03	09OCT03	17		0									
9I009500		ND: TKR Modules 1 and 2	0		03NOV03	0		0									
9I009502		ND: CAL Modules 1 and 2	0		03NOV03	0		0									
9I009220		ND: ACD Calibration Test Unit Delvd RFI	1	04NOV03*	04NOV03	14		0									
9I009600		Integrate TKR, CAL Flight Modules 1, 2	15	04NOV03	24NOV03	0		0									
9I009700		Functional/EMI Test Cal. Unit	14	25NOV03	16DEC03	0		0									
9I009800		Prep Cal. Unit for Transport	5	17DEC03	23DEC03	0		0									
4.1.9.4.4 CALIBRATION UNIT SLAC BEAM TEST																	
9I011312	DL	\$FY03\$ Labor-NASA	247	01OCT02*	30SEP03	616	A	0									
9I010100		Prep Beamline for Beam Test	28	15JAN03	25FEB03	210		0									
9I010000		Fab, Assemble Beam Test Equip	30	15JAN03	27FEB03	210		0									
9I011322	DL	\$FY04\$ Labor & M&S-NASA	248	01OCT03*	30SEP04	368	A	0									
9I010010		IN: SLAC Beamline Available	0	01DEC03*		17		0									
9I010200		Install Cal. Unit on Beamline at SLAC	10	02JAN04	15JAN04	0		0									
9I010300		Beam Test Cal. Unit at SLAC	40	16JAN04	15MAR04	0		0									
9I010400		Break Down Beam Test, Prep for Shipping	8	16MAR04	25MAR04	14		0									
9I011100		Prep Cal. Unit for Dis-Integration	5	26MAR04	01APR04	14		0									
9I011200		Remove CAL, TKR Modules A, B, 1, 2	8	02APR04	13APR04	14		0									
9I011300		IA: TKR Flight Modules 1, 2 RFI into LAT	0		12APR04	15		0									
9I011302		IA: CAL Flight Modules 1, 2 RFI into LAT	0		13APR04	14		0									
4.1.9.6 FLIGHT LAT I & T																	
4.1.9.6.1 LAT INTEGRATION																	
4.1.9.6.1.1 ENGINEERING																	
9I013618	DL	\$FY02\$ Labor - NASA	247	01OCT01A	30SEP02	863	A	9									
9I011700		Develop LAT I&T Procedures, GSE	25	03DEC01	15JAN02	8		0									
9I012200		Detail Integration Support Stand	25	16JAN02	21FEB02	8		0									
9I011800		Develop Integration Procedures, Dwg's	40	16JAN02	14MAR02	42		0									
9I012300		Detail Cart	15	22FEB02	14MAR02	8		0									
9I012400		Detail Lifting Rigging	15	15MAR02	04APR02	8		0									
9I012600		Detail Staging Table	9	05APR02	17APR02	8		0									
9I012700		Detail Misc Equip and Fixtures	10	18APR02	01MAY02	8		0									
9I012720		Prep LAT I&T Plans for I-CDR	15	02MAY02	22MAY02	8		0									
9I012900		Detail Calibration Detector	59	02MAY02	25JUL02	158		0									
9I012730		Update GSE Design After I-CDR	59	05JUN02	27AUG02	106		0									
9I013000		Detail Detector Stand, Tracks	30	26JUL02	06SEP02	158		0									
9I013200		Detail LAT Mounting Stand	18	28AUG02	23SEP02	106		0									
9I013300		Detail Base Isolated Pallet	20	24SEP02	21OCT02	106		0									

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
9I013628	DL	\$FY03\$ Labor - NASA	247	01OCT02*	30SEP03	616	A	0							
9I013400		Detail Rigging/Forklift Harness	4	22OCT02	25OCT02	106		0							
9I013500		Detail Dry Transport Box	14	28OCT02	14NOV02	106		0							
9I013600		Detail Misc Transport Containers	10	15NOV02	02DEC02	106		0							
9I013700		Support LAT Integration	286	03DEC02	05FEB04	106		0							
9I013604		Prep for LAT PRE - Integration Review	20	17APR03	14MAY03	166		0							
9I013608		LAT PRE - Integration Review	2	15MAY03	16MAY03	166		0							
9I013638	DL	\$FY04\$ Labor - NASA	248	01OCT03*	30SEP04	368	A	0							
4.1.9.6.1.2 INTEGRATION PREPARATION															
4.1.9.6.1.2.1 FAB/ASSEMBLE LAT INTEGRATION EQUIPMENT															
9I014000		(PR) Procure Integration Support Stand	1	28AUG02	28AUG02	188		0							
9I014100		(PR) Procure Cart	1	28AUG02	28AUG02	207		0							
9I014200		(PR) Procure Lifting Rigging	1	28AUG02	28AUG02	207		0							
9I014500		(PR) Procure Staging Table	1	28AUG02	28AUG02	238		0							
9I014600		(PR) Procure Misc Equip and Fixtures	1	28AUG02	28AUG02	257		0							
9I014602		(REC) Procure Misc Equip and Fixtures	1	08NOV02	08NOV02	257		0							
9I014102		(REC) Procure Cart	1	09DEC02	09DEC02	207		0							
9I014202		(REC) Procure Lifting Rigging	1	09DEC02	09DEC02	207		0							
9I014502		(REC) Procure Staging Table	1	09DEC02	09DEC02	238		0							
9I014700		Assemble, Install Table, Misc Fixtures	9	10DEC02	20DEC02	238		0							
9I014002		(REC) Procure Integration Support Stand	1	14JAN03	14JAN03	188		0							
9I014800		Assemble, Test Stand, Cart, Rigging	40	15JAN03	13MAR03	188		0							
4.1.9.6.1.2.2 FAB/ASSEMBLE LAT CALIBRATION EQUIPMENT															
9I014900		(PR) Procure Calibration Detector Comp's	1	09SEP02	09SEP02	158		0							
9I015000		(PR) Procure Detector Stand, Tracks	1	09SEP02	09SEP02	198		0							
9I015002		(REC) Procure Detector Stand, Tracks	1	17DEC02	17DEC02	198		0							
9I014902		(REC) Procure Calibration Detector Comp's	1	24FEB03	24FEB03	158		0							
9I015100		Assemble, Test Calibration Equip	29	25FEB03	04APR03	158		0							
9I015200		Calibrate Calibration Equipment	39	07APR03	30MAY03	158		0							
4.1.9.6.1.2.3 FAB/ASSEMBLE LAT TRANSPORT, STORAGE EQUIPMENT															
9I015400		(PR) Procure LAT Mounting Stand	1	03DEC02	03DEC02	290		0							
9I015500		(PR) Procure Base Isolated Pallet	1	03DEC02	03DEC02	290		0							
9I015600		(PR) Procure Rigging/Forklift Harness	1	03DEC02	03DEC02	309		0							
9I015800		(PR) Procure Misc Transport Containers	1	03DEC02	03DEC02	329		0							
9I015700		Procure Dry Transport Box	59	03DEC02	06MAR03	309		0							
9I015802		(REC) Procure Misc Transport Containers	1	05FEB03	05FEB03	329		0							
9I015602		(REC) Procure Rigging/Forklift Harness	1	06MAR03	06MAR03	309		0							
9I015402		(REC) Procure LAT Mounting Stand	1	02APR03	02APR03	290		0							
9I015502		(REC) Procure Base Isolated Pallet	1	02APR03	02APR03	290		0							
9I015900		Assemble, Test Transport Equip	24	03APR03	06MAY03	290		0							
4.1.9.6.1.2.4 PREPARE INTEGRATION CLEAN ROOM															
9I016460		ND: EGSE EM1 H/W Release for I&T	0		22APR02	431		0							
9I016510	DL	\$FY03\$ Labor & M&S-NASA	247	01OCT02*	30SEP03	616	A	0							
9I016450		ND: EGSE EM2 Release for I&T	0		15JAN03	251		0							
9I016200		Rigger Support of Load Testing	10	14MAR03	27MAR03	202		0							
9I016300		Survey and Alignment Support of Inspection	10	14MAR03	27MAR03	202		0							
9I016100		Install Stands, Tables in Int. Room	14	14MAR03	02APR03	188		0							
9I016400		Test As-Installed Stands	10	03APR03	16APR03	188		0							
9I016500		IA: Int.Clean Room Ready for LAT Integration	0	30MAY03		158		0							
4.1.9.6.1.3 LAT INTEGRATION															
9I018320	DL	\$FY04\$ Labor-NASA	248	01OCT03*	30SEP04	368	A	0							
9I017650		ND: Flight TEM PS Assy 1,2	0		03NOV03	119		0							
9I016800		Prep Flight Grid for Integration	10	05JAN04	16JAN04	13		0							
9I017640		ND: Flight TEM Assy 1,2	0		14JAN04	76		0							
9I016804		ND: Flight Tkr Towers 3, 4	0		16JAN04	13		0							
9I016808		ND: Flight Cal. Towers 3, 4	0		16JAN04	13		0							
9I016810		ND: EGSE Flight Unit Release for I&T	0		16JAN04	13		0							
9I016910		ND: Flight TEM Assy 3,4	0		16JAN04	13		0							
9I016920		ND: Flight TEM PS Assy 3,4	0		16JAN04	13		0							
9I016900		Integrate Flight Tkr/Cal Towers 3, 4	10	20JAN04	02FEB04	13		0							
9I016904		ND: Flight Tkr.. Towers 5,6	0		02FEB04	13		0							
9I016908		ND: Flight Cal. Towers 5,6	0		02FEB04	13		0							
9I017020		ND: Flight TEM PS Assy 5,6	0		02FEB04	13		0							
9I017690		ND: ACD Test Scripts	1	03FEB04*	03FEB04	536		0							
9I017110		ND: Flight TEM Assy 7,8	0		17FEB04	13		0							
9I017120		ND: Flight TEM PS Assy 7,8	0		17FEB04*	13		0							
9I017010		ND: Flight TEM Assy 5,6	0		20FEB04	0		0							
9I017000		Integrate Flight Tkr/Cal Towers 5, 6	10	23FEB04	05MAR04	0		0							
9I017210		ND: Flight TEM Assy 9,10	0		02MAR04*	13		0							
9I017220		ND: Flight TEM PS Assy 9,10	0		02MAR04*	13		0							
9I017004		ND: Flight Tkr Towers 7,8	0		05MAR04	0		0							
9I017008		ND: Flight Cal Towers 7,8	0		05MAR04	0		0							
9I017100		Integrate Flight Tkr/Cal Towers 7, 8	10	08MAR04	19MAR04	0		0							
9I017310		ND: Flight Tem Assy 11,12	0		12MAR04*	13		0							
9I017320		ND: Flight TEM PS Assy 11,12	0		12MAR04	13		0							
9I017104		ND: Flight Tkr Towers 9, 10	0		19MAR04	0		0							
9I017108		ND: Flight Cal Towers 9, 10	0		19MAR04	0		0							
9I017200		Integrate Flight Tkr/Cal Towers 9, 10	8	22MAR04	31MAR04	0		0							
9I017410		ND: Flight TEM Assy 13,14	0		26MAR04	13		0							
9I017420		ND: Flight TEM PS Assy 13,14	0		26MAR04	13		0							
9I017204		ND: Flight Tkr Towers 11, 12	0		31MAR04	0		0							
9I017208		ND: Flight Cal Towers 11, 12	0		31MAR04	0		0							
9I07418		ND: Flight TEM Assy 15,16	0		01APR04	13		0							
9I07428		ND: Flight TEM PS Assy15,16	0		01APR04	13		0							
9I017300		Integrate Flight Tkr/Cal Towers 11, 12	10	01APR04	14APR04	0		0							
9I017304		ND: Flight Tkr Towers 13, 14	0		14APR04	0		0							
9I017308		ND: Flight Cal Towers 13, 14	0		14APR04	0		0							
9I017400		Integrate Flight Tkr/Cal Towers 13, 14	4	15APR04	20APR04	0		0							
9I07404		ND: Flight Tkr Towers 15, 16	0		20APR04	0		0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
9I07408		ND: Flight Cal Towers 15, 16	0		20APR04	0		0							
9I017500		Integrate Flight Tkr/Cal Towers 15, 16	9	21APR04	03MAY04	0		0							
9I016930		ND: Flight Harness	0		26APR04	15		0							
9I017660		ND: Flight ICM/GLT from (Electronics)	0		26APR04	10		0							
9I017670		ND: Flight SIU from (Electronics)	0		26APR04	10		0							
9I017680		ND: Flight Event Process Units from Elec	0		26APR04	15		0							
9I017800		ND: Flight ACD from 4.1.5	0		26APR04	20		0							
9I017810		ND: Flight ACD (Electronics) Module	0		26APR04	20		0							
9I017900		ND: Thermal Blanket from 4.1.5	0		26APR04	20		0							
9I018200		ND: X-LAT Thermal Plate	0		26APR04*	35		0							
9I017630		Integrate Data CPU'S	5	27APR04	03MAY04	10		0							
9I017504		ND: Flight Tkr Towers 1, 2	0		03MAY04	0		0							
9I017508		ND: Flight CAL Towers 1, 2	0		03MAY04	0		0							
9I017600		Integrate Flight Tkr/Cal Towers 1, 2	10	04MAY04	17MAY04	0		0							
9I017700		Survey LAT	5	18MAY04	24MAY04	0		0							
9I018000		Integrate Flight ACD on Grid	10	25MAY04	08JUN04	0		0							
9I018100		Integrate Thermal Blanket on Grid	5	09JUN04	15JUN04	0		0							
9I018300		Test Integrate Radiators on Grid, Remove	5	16JUN04	22JUN04	0		0							
9I018330		System Test Readiness Review-incl Safety - I&T	0		22JUN04	0		0							
9I018400		Functional/EMI Test Flight Unit	10	23JUN04	07JUL04	0		0							
9I018410		Pre-Environmental Readiness Review/Safety-I&T	0		07JUL04	0		0							
9I018500		AV: LAT Ready for Environmental Testing	0		07JUL04	0		0							
9I018310		ND: Radiators ready for Mission I&T-Mech	0		01DEC04	6		0							
4.1.9.6.2 LAT MECHANICAL TESTING															
4.1.9.6.2.1 ENGINEERING															
9I018800		Finalize LAT Mech Test Plans after I-CDR	71	28AUG02	09DEC02	159		0							
9I018900		Detail LAT Vibe Test Mount	49	10DEC02	27FEB03	159		0							
9I019000		Write Mech Test Procedures	29	28FEB03	09APR03	159		0							
9I019100		Set up Mech Test Contract	78	10APR03	30JUL03	159		0							
9I019200		Support Mech Test Prep	80	31JUL03	20NOV03	159		0							
9I019300		Support Mech Testing	30	13JUL04	23AUG04	5		0							
9I019400		Write Mech Test Report	5	24AUG04	30AUG04	104		0							
4.1.9.6.2.2 MECHANICAL TESTING PREPARATION															
9I019910	DL	\$FY03\$ Labor & M&S-NASA	247	01OCT02*	30SEP03	616	A	0							
9I019600		(PR) Procure Vibe Test Mount, Equip	1	28FEB03	28FEB03	241		0							
9I019602		(REC) Procure Vibe Test Mount, Equip	1	18JUN03	18JUN03	241		0							
9I019700		Assemble, Test Vibe Mount	19	19JUN03	16JUL03	241		0							
9I019800		Vibe Test Contract in Place	0		30JUL03	190		0							
9I019900		Vibe Test Contractor Prep	48	31JUL03	07OCT03	190		0							
9I019920	DL	\$FY04\$ Labor & M&S-NASA	248	01OCT03*	30SEP04	368	A	0							
9I019930	DL	\$FY05\$ Labor & M&S-NASA	248	01OCT04*	30SEP05	120	A	0							
4.1.9.6.2.3 LAT MECHANICAL TESTING															
9I020610	DL	\$FY04\$ Labor & M&S-NASA	248	01OCT03*	30SEP04	368	A	0							
9I020100		Integrate LAT on Vibe Mount	3	08JUL04	12JUL04	0		0							
9I020200		Prep LAT for Shipping	4	13JUL04	16JUL04	0		0							
9I020300		Ship LAT to Vibe Test Contractor	10	19JUL04	30JUL04	0		0							
9I020400		(PR) Vibe, Acoustic Test Flight Unit	1	02AUG04	02AUG04	0		0							
9I020410		(REC) Vibe, Acoustic Test Flight Unit	1	30AUG04	30AUG04	0		0							
9I020500		Transport LAT	2	31AUG04	01SEP04	0		0							
9I020600		Functional/EMI Re-Test Flight Unit	5	02SEP04	09SEP04	0		0							
9I020620	DL	\$FY05\$ Labor & M&S-NASA	248	01OCT04*	30SEP05	120	A	0							
4.1.9.6.3 LAT THERMAL TESTING															
4.1.9.6.3.1 ENGINEERING															
9I020900		Finalize LAT Thermal Test Plans after I-CDR	71	28AUG02	09DEC02	118		0							
9I021000		Detail LAT Thermal-Vac Test GSE	29	10DEC02	29JAN03	118		0							
9I021100		Write Thermal-Vac Test Procedures	30	30JAN03	13MAR03	118		0							
9I021200		Set up Thermal-Vac Test Contract	78	14MAR03	02JUL03	118		0							
9I021204		(PR) Set up Thermal-Vac Test Contract	1	03JUL03	03JUL03	118		0							
9I021214		(REC) Set up Thermal-Vac Test Contract	1	24OCT03	24OCT03	118		0							
9I021300		Support Thermal-Vac Testing	29	27OCT03	08DEC03	235		0							
9I021400		Write Thermal-Vac Test Report	18	18NOV04	15DEC04	30		0							
4.1.9.6.3.2 THERMAL TESTING PREPARATION															
9I021710	DL	\$FY03\$ Labor & M&S-NASA	247	01OCT02*	30SEP03	616	A	0							
9I021720	DL	\$FY04\$ Labor & M&S-NASA	248	01OCT03*	30SEP04	368	A	0							
9I021600		(PR) Procure Thermal-Vac Test Equip	1	24OCT03	24OCT03	118		0							
9I021800		Thermal-Vac Test Contract in Place	0		24OCT03	173		0							
9I021900		Thermal-Vac Test Contractor Prep	49	27OCT03	14JAN04	173		0							
9I021602		(REC) Procure Thermal-Vac Test Equip	1	25FEB04	25FEB04	118		0							
9I021700		Assemble, Test Thermal-Vac Test Equip	20	26FEB04	24MAR04	118		0							
9I021730	DL	\$FY05\$ Labor & M&S-NASA	248	01OCT04*	30SEP05	120	A	0							
4.1.9.6.3.3 LAT THERMAL TESTING															
9I021910		Integrate LAT on Thermal-Vac Mount	3	10SEP04	14SEP04	0		0							
9I022200		Prep LAT for Shipping	4	15SEP04	20SEP04	0		0							
9I022300		Transport LAT	2	21SEP04	22SEP04	0		0							
9I022400		Thermal-Vac Test LAT	40	23SEP04	17NOV04	0		0							
9I022610	DL	\$FY05\$ Labor & M&S-NASA	248	01OCT04*	30SEP05	120	A	0							
9I022500		Ship LAT Back to SLAC	9	18NOV04	02DEC04	0		0							
9I022600		Functional/EMI Re-Test LAT	5	03DEC04	09DEC04	0		0							
4.1.9.6.5 LAT DELIVERY															
9I023710	DL	\$FY05\$ Labor & M&S-NASA	248	01OCT04*	30SEP05	120	A	0							
9I023110		Pre-Ship Review-incl Safety-I&T	0		09DEC04	5		0							
9I023200		Prep LAT for Transport	5	10DEC04	16DEC04	0		0							
9I023100		Prep for I-PSR	11	16DEC04	07JAN05	30		0							
9I023300		Instrument Schedule Contingency	40	17DEC04	22FEB05	0		0							
9I023350		LAT Ready to Ship	0		22FEB05	0		0							
9I023400		Ship LAT to S/C I&T	5	23FEB05	01MAR05	0		0							
9I023500		Unpack, Inspect LAT at S/C I&T	15	02MAR05	22MAR05	0		0							
9I023600		LAT Turnover	0		22MAR05	0		0							
9I023720	DL	\$FY06\$ Labor-NASA	120	03OCT05*	31MAR06	0	A	0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year							
									FY01	FY02	FY03	FY04	FY05	FY06	FY07	
9I023700		De-Commission Integration Facilities	19	02MAR06	28MAR06	2		0								
4.1.9.7 MISSION INTEGRATION & TESTING																
4.1.9.7.1 S/C INTEGRATION PLANNING																
9I024000		Layout S/C Integration Plans	266	31JAN02*	27FEB03	459		0								
9I024100		Detail Integration Procedures, Dwg's	90	28FEB03	07JUL03	459		0								
4.1.9.7.2 S/C INTEGRATION AND TEST SUPPORT																
9I004040	DL	\$FY02\$ Labor and M&S-NASA	247	01OCT01A	30SEP02	863	A	0								
9I004050	DL	\$FY03\$ Labor and M&S-NASA	247	01OCT02*	30SEP03	616	A	0								
9I004060	DL	\$FY05\$ Labor and M&S-NASA	248	01OCT04*	30SEP05	120	A	0								
9I024300		Oversee S/C Integration	38	23MAR05	13MAY05	38		0								
9I024400		Inspect, Test Flight Instrument	10	16MAY05	27MAY05	38		0								
9I024500		Oversee S/C Testing	30	31MAY05	12JUL05	38		0								
9I024600		Inspect, Test Flight Instrument	40	13JUL05	07SEP05	38		0								
9I024700		Prepare Instrument for Transport	9	08SEP05	20SEP05	38		0								
9I004070	DL	\$FY06\$ Labor and M&S-NASA	120	03OCT05*	31MAR06	0	A	0								
4.1.9.7.3 LV INTEGRATION PLANNING																
9I024900		Layout LV Integration and Launch Plans	130	28FEB03	02SEP03	546		0								
4.1.9.7.4 LV INTEGRATION SUPPORT																
9I025100		Oversee LV I&T	30	21SEP05	01NOV05	38		0								
9I025200		Inspect, Test LAT on LV	20	02NOV05	01DEC05	38		0								
4.1.9.7.5 LAUNCH SUPPORT																
9I025400		Oversee Launch Preparation	10	02DEC05	15DEC05	38		0								
9I025500		Prep for and Witness Launch	10	16DEC05	06JAN06	38		0								
9I025700		Post-Launch Engineering Support	1	02MAR06	02MAR06	20		0								
9I025600		Launch	0	02MAR06*		2		0								
9I025800		Finish	1	29MAR06	29MAR06	2		0								

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY									
									FY01	FY02	FY03	FY04	FY05	FY06	FY07			
4.1.A PERFORMANCE AND SAFETY ASSURANCE																		
4.1.A.1 PERFORMANCE ASSURANCE MANAGEMENT																		
4.1.A.1.1 MANAGEMENT																		
AP1001001	DL	Performance Assurance Management: FY 2000	127	03APR00A	29SEP00A		A	100	Performance Assurance Management: FY 2000									
AP1001031	DL	Performance Assurance Mgmt: FY 2001- FY 2005	1,237*	02OCT00A	30SEP05	0	A	22	Performance Assurance Management: FY 2001-2005									
AP1001041		GSFC Safety & Mission Assurance Survey	0		02APR01A			100	GSFC Safety & Mission Assurance Survey									
AP1001051	DL	Performance Assurance Management: FY 2006	120	03OCT05	31MAR06	0	A	0	Performance Assurance Management: FY 2006									
AP1001061		Performance & Safety Assurance Work Complete	0		31MAR06	0		0	Performance & Safety Assurance Work Complete									
4.1.A.1.2 TRAVEL																		
AP1001004	DL	Domestic Travel: FY 2001	247	02OCT00A	28SEP01A		A	100	Domestic Travel: FY 2001									
AP1001054	DL	Foreign Travel: FY 2001	247	02OCT00A	28SEP01A		A	100	Foreign Travel: FY 2001									
AP1001014	DL	Domestic Travel: FY 2002	247*	01OCT01A	30SEP02	0	A	9	Domestic Travel: FY 2002									
AP1001064	DL	Foreign Travel: FY 2002	247*	01OCT01A	30SEP02	368	A	9	Foreign Travel: FY 2002									
AP1001024	DL	Domestic Travel: FY 2003	247	01OCT02	30SEP03	0	A	0	Domestic Travel: FY 2003									
AP1001074	DL	Foreign Travel: FY 2003	247	01OCT02	30SEP03	368	A	0	Foreign Travel: FY 2003									
AP1001034	DL	Domestic Travel: FY 2004	248	01OCT03	30SEP04	0	A	0	Domestic Travel: FY 2004									
AP1001084	DL	Foreign Travel: FY 2004	248	01OCT03	30SEP04	368	A	0	Foreign Travel: FY 2004									
AP1001044	DL	Domestic Travel: FY 2005	248	01OCT04	30SEP05	0	A	0	Domestic Travel: FY 2005									
AP1001094	DL	Domestic Travel: FY 2006	120	03OCT05	31MAR06	0	A	0	Domestic Travel: FY 2006									
4.1.A.1.3 PROJECT SUPPORT AT SLAC																		
AP100350	DL	Project Support at SLAC: FY 2000	127	03APR00A	29SEP00A		A	100	Project Support at SLAC: FY 2000									
AP1001300	DL	Project Support at SLAC: FY 2001	247	02OCT00A	28SEP01A		A	100	Project Support at SLAC: FY 2001									
AP1001310	DL	Project Support at SLAC: FY 2002	247*	01OCT01A	30SEP02	0	A	9	Project Support at SLAC: FY 2002									
AP1001320	DL	Project Support at SLAC: FY 2003	247	01OCT02	30SEP03	0	A	0	Project Support at SLAC: FY 2003									
AP1001330	DL	Project Support at SLAC: FY 2004	248	01OCT03	30SEP04	0	A	0	Project Support at SLAC: FY 2004									
AP1001340	DL	Project Support at SLAC: FY 2005	248	01OCT04	30SEP05	0	A	0	Project Support at SLAC: FY 2005									
AP1001350	DL	Project Support at SLAC: FY 2006	120	03OCT05	31MAR06	0	A	0	Project Support at SLAC: FY 2006									
4.1.A.2 QUALITY ASSURANCE																		
4.1.A.2.2 ISO 9000 PROGRAM IMPLEMENTATION																		
AP1002020	DL	ISO 9000 System Development: FY 2001	247	02OCT00A	28SEP01A		A	100	ISO 9000 System Development: FY 2001									
AP1002007	DL	ISO 9000 Quality Audits: FY 2002	247*	01OCT01A	30SEP02	616	A	9	ISO 9000 Quality Audits: FY 2002									
AP1002030	DL	ISO 9000 System Development: FY 2002	247*	01OCT01A	30SEP02	616	A	9	ISO 9000 System Development: FY 2002									
AP1002017	DL	ISO 9000 Quality Audits: FY 2003	247	01OCT02	30SEP03	616	A	0	ISO 9000 Quality Audits: FY 2003									
AP1002040	DL	ISO 9000 System Development: FY 2003	247	01OCT02	30SEP03	616	A	0	ISO 9000 System Development: FY 2003									
4.1.A.2.3 EQUIPMENT AND SERVICES																		
AP1002013	DL	Calibration Services: FY 2002	204*	03DEC01*	30SEP02	616	A	0	Calibration Services: FY 2002									
AP1002016	DL	QA Support Contracts: FY 2002 - FY 2003	451*	03DEC01*	30SEP03	616	A	0	QA Support Contracts: FY 2002 - FY 2003									
AP1002019	DL	Misc. Equipment & Supplies: FY 2002 - FY 2003	451*	03DEC01*	30SEP03	368	A	0	Misc. Equipment & Supplies: FY 2002 - FY 2003									
AP1002023	DL	Calibration Services: FY 2003	247	01OCT02	30SEP03	616	A	0	Calibration Services: FY 2003									
AP1002029	DL	Misc. Equipment & Supplies: FY 2004	248	01OCT03	30SEP04	368	A	0	Misc. Equipment & Supplies: FY 2004									
4.1.A.2.4 CONTAMINATION CONTROL																		
AP1002049	DL	Contamination Measuring Equipment	204*	03DEC01*	30SEP02	863	A	0	Contamination Measuring Equipment									
4.1.A.3 TRAINING																		
4.1.A.3.1 WORKMANSHIP & Q.A. TRAINING																		
AP1003001	DL	Training Development & Planning	204*	03DEC01*	30SEP02	863	A	0	Training Development & Planning									
AP1003004	DL	Quality Awareness Training	204*	03DEC01*	30SEP02	863	A	0	Quality Awareness Training									
AP1003014	DL	Technician Training: FY 2002	204*	03DEC01*	30SEP02	616	A	0	Technician Training: FY 2002									
AP1003024	DL	Technician Training: FY 2003	247	01OCT02	30SEP03	616	A	0	Technician Training: FY 2003									
4.1.A.4 RECORDS MANAGEMENT																		
4.1.A.4.1 DOCUMENTATION ADMINISTRATION																		
AP1004001	DL	Documentation Administration: FY 2001	247	02OCT00A	28SEP01A		A	100	Documentation Administration: FY 2001									
4.1.A.5 SYSTEMS SAFETY																		
4.1.A.5.1 EQUIPMENT & SERVICES																		
AP1005011	DL	Outside Consulting Services: FY 2002	204*	03DEC01*	30SEP02	616	A	0	Outside Consulting Services: FY 2002									
AP1005004	DL	Equipment and Supplies	699*	03DEC01*	30SEP04	368	A	0	Equipment and Supplies									
AP1005021	DL	Outside Consulting Services: FY 2003	247*	01OCT02	30SEP03	616	A	0	Outside Consulting Services: FY 2003									
4.1.A.6 EEE PARTS CONTROL PROGRAM																		
AP1006000	DN	EEE Parts Control Program: FY 2002	247*	01OCT01A	30SEP02	310	A	9	EEE Parts Control Program: FY 2002									
AP1006010	DN	EEE Parts Control Program: FY 2003	247*	01OCT02	30SEP03	310	A	0	EEE Parts Control Program: FY 2003									
AP1006020	DN	EEE Parts Control Program: FY 2004	248*	01OCT03	30SEP04	310	A	0	EEE Parts Control Program: FY 2004									
AP1006030	DN	EEE Parts Control Program: FY 2005	58*	01OCT04	23DEC04	310	A	0	EEE Parts Control Program: FY 2005									

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year								
									FY01	FY02	FY03	FY04	FY05	FY06	FY07		
4.1.B LAT INSTRUMENT OPERATIONS CENTER																	
BI00001590		IOC Requirements Review	0		03MAY01A			100									
BI00001630		IOC PDR	0		17AUG01A			100									
BI00001600		LAT Instrument PDR	0		07JAN02	0		0									
BI00001640		LAT Instrument CDR	0		05AUG02	0		0									
BI00002000		1st Two Towers Ready for Calibration	0		15AUG03	0		0									
BI00001660		IOC CDR (TBR)	0		04DEC03	0		0									
BI44MF0000		Environmental Test Database Release	0		01JUN04	3		0									
BI00001650		IOC S/W Release 1	0		17JUN04	5		0									
BI00002010		Pre Environmental Review (PER)	0		09JUL04	0		0									
BI451MF000		Development Model Complete	0		06DEC04	8		0									
BI44MF0010		Observatory Integration Database Release	0		13DEC04	3		0									
BI00002040		I - PSR (Pre-Ship Review)	0		07JAN05	0		0									
BI00001670		IOC S/W Release 2	0		07FEB05	285		0									
BI00003020		LAT Ship	0		01MAR05	0		0									
BI00001690		LAT Ops Facility Validation & Verification Comp	0		18JUL05	173		0									
BI00003000		IOC S/W Release 3	0		15SEP05	131		0									
BI00001710		Ground Systems Compatibility Test (TBR) Complete	0		23SEP05	103		0									
BI00001720		Mission Sequence Test (TBR) Complete	0		24OCT05	82		0									
BI44MF0020		Flight Database Release	0		01NOV05	4		0									
BI452MF000		Operational Model Complete	0		08NOV05	37		0									
BI00003010		IOC S/W Release 4	0		18JAN06	29		0									
BI00001730		End-to-end Test (TBR) Complete	0		24JAN06	25		0									
BI00001735		Training Simulations Complete	0		17FEB06	7		0									
BI00001740		Launch	0		01MAR06	0		0									
BI84MF0000		LAT Activation & Checkout Complete	0		31MAR06	0		0									
4.1.B.1 PROJECT MANAGEMENT																	
4.1.B.1.1 PROJECT ADMINISTRATION																	
BI00000020	DH	Technical Direction & Reporting	1,357	02OCT00A	31MAR06	0	A	20									Technical
BI00000000	DH	Develop Implementation Plan	160	29NOV00A	14SEP01A		E	100									
BI00000010	DH	Revise Implementation Plan	45	15SEP01A	05NOV01	26	E	50									
BI00000040	DH	Update Implementation Plan	100	06FEB02	27JUN02	18	E	0									
4.1.B.1.2 MEETINGS & REVIEWS																	
BI12000000	DH	HEPL	754*	02OCT00A	17OCT03	32	A	35									HEPL
BI20000010	DH	HEPL	587*	06OCT03	23FEB06	2	A	0									HEPL
4.1.B.1.2.1 PROJECT REVIEWS																	
BI00000050		SRR Discrepancy Closeouts	40	02OCT00A	28NOV00A			100									
BI00000060		PDR Preparations	10	11DEC01	02JAN02	3		0									
BI00000070		Preliminary Design Review	0		07JAN02	0		0									
BI00000080		PDR Discrepancy Closeouts	20	08JAN02	05FEB02	0		0									
BI00000120		CDR Preparations	8	24JUL02	02AUG02	1		0									
BI00000130		Critical Design Review	0		05AUG02	0		0									
BI00000140		CDR Discrepancy Closeouts	39	06AUG02	30SEP02	0		0									
BI00000150		PER Preparations	10	18JUN04	01JUL04	5		0									
BI00000160		Pre-Environmental Review (PER)	0		09JUL04	102		0									
BI00000170		PER Discrepancy Closeouts	20	12JUL04	06AUG04	102		0									
BI00000180		PSR Preparations	10	14DEC04	04JAN05	3		0									
BI00000190		Pre-Ship Review (PSR)	0		07JAN05	46		0									
BI00000200		PSR Discrepancy Closeouts	20	10JAN05	07FEB05	46		0									
BI00000210		FRR Preparations	10	29NOV05	12DEC05	30		0									
BI00000220		Flight Readiness Review (FRR)	0		01FEB06	2		0									
BI00000230		FRR Discrepancy Closeouts	15	02FEB06	23FEB06	2		0									
4.1.B.1.2.2 IOC INTERNAL REVIEWS																	
BI00000240		IOC-SRR Preparations	20	10APR01A	03MAY01A			100									
BI00000250		IOC System Requirements Review	0		03MAY01A			100									
BI00000260		IOC-SRR Discrepancy Closeouts	107	04MAY01A	11OCT01A			100									
BI00000270		IOC-PDR Preparations	20	25JUL01A	17AUG01A			100									
BI00000280		IOC Preliminary Design Review	0		17AUG01A			100									
BI00000290		IOC-PDR Discrepancy Closeouts	74	18AUG01A	10DEC01	1		65									
BI00000300		IOC-CDR Preparations	10	06OCT03	17OCT03	32		0									
BI00000310		IOC Critical Design Review	0		04DEC03	0		0									
BI00000320		IOC-CDR Discrepancy Closeouts	30	05DEC03	27JAN04	0		0									
4.1.B.1.2.3 TECHNICAL INTERCHANGE MEETINGS																	
BI00000330		Technical Interchange Meetings Quarterly Reviews	1,357	02OCT00A	31MAR06	0		20									Technical
4.1.B.1.3 LOGISTICS MANAGEMENT																	
BI00000340		IOC Site Preparation	240	01OCT02	19SEP03	42		0									IOC Site Preparation
BI13000000	DH	HEPL	863*	01OCT02	31MAR06	0	A	0									HEPL
BI13PR0000	DH	PR IOC Facility Procurements	1	05DEC03	05DEC03	0	E	0									PR IOC Facility Procurements
BI00000350	DH	Receive IOC Facility Procurements	1	10FEB04	10FEB04	0	E	0									Receive IOC Facility Procurements
BI00000360		IOC Facility Installation	40	11FEB04	07APR04	0		0									IOC Facility Installation
BI00000370		IOC Facility Management	491	08APR04	31MAR06	0		0									IOC Facility Management
BI00000380	DH	External Network Services	491	08APR04	31MAR06	0	A	0									External Network Services
4.1.B.1.4 TRAVEL																	
BI00000390	DH	Domestic Travel	1,357	02OCT00A	31MAR06	0	A	20									Domestic
BI00000400	DH	International Travel	1,110	01OCT01A	31MAR06	0	A	2									International
4.1.B.1.5 PROJECT SUPPORT																	
BI00000410	DH	Materials & Services FY01	250	02OCT00A	28SEP01A		A	100									
BI00000420	DH	Computers, Maintenance, Software FY01	250	02OCT00A	28SEP01A		A	100									
BI00000440	DH	Telecommunications & Reproduction FY01	250	02OCT00A	28SEP01A		A	100									
BI15000000	DH	Materials & Services FY02	247	01OCT01A	30SEP02	0	A	9									
BI15000010	DH	Computers, Maintenance, Software FY02	247	01OCT01A	30SEP02	0	A	9									
BI15000020	DH	Telecommunications & Reproduction FY02	247	01OCT01A	30SEP02	0	A	9									
BI15000030	DH	Materials & Services FY03	247	01OCT02	30SEP03	0	A	0									
BI15000040	DH	Computers, Maintenance, Software FY03	247	01OCT02	30SEP03	0	A	0									
BI15000050	DH	Telecommunications & Reproduction FY03	247	01OCT02	30SEP03	0	A	0									
BI15000060	DH	Materials & Services FY04	248	01OCT03	30SEP04	0	A	0									
BI15000070	DH	Computers, Maintenance, Software FY04	248	01OCT03	30SEP04	0	A	0									
BI15000080	DH	Telecommunications & Reproduction FY04	248	01OCT03	30SEP04	0	A	0									
BI15000090	DH	Materials & Services FY05	248	01OCT04	30SEP05	0	A	0									

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01 FY02 FY03 FY04 FY05 FY06 FY07						
									Gantt Chart						
BI51000100	DH	Computers, Maintenance, Software FY05	248	01OCT04	30SEP05	0	A	0	Computers, Maintenance, Software FY05						
BI51000110	DH	Telecommunications & Reproduction FY05	248	01OCT04	30SEP05	0	A	0	Telecommunications & Reproduction FY05						
BI51000120	DH	Materials & Services FY06	120	03OCT05	31MAR06	0	A	0	Materials & Services FY06						
BI51000130	DH	Computers, Maintenance, Software FY06	120	03OCT05	31MAR06	0	A	0	Computers, Maintenance, Software FY06						
BI51000140	DH	Telecommunications & Reproduction FY06	120	03OCT05	31MAR06	0	A	0	Telecommunications & Reproduction FY06						
4.1.B.2 PERFORMANCE ASSURANCE															
4.1.B.2.1 IOC PERFORMANCE ASSURANCE															
BI00000450	DH	Develop IOC Performance Assurance Plan	150	11DEC01	23JUL02	1	E	0	Develop IOC Performance Assurance Plan						
BI21000010	DH	Update IOC Performance Assurance Plan	240	01OCT02	19SEP03	42	A	0	Update IOC Performance Assurance Plan						
BI00000460		S/W Performance Assurance	541	28JAN04	31MAR06	0		0	S/W Performance Assurance						
BI00000470		IOC Quality Assurance	541	28JAN04	31MAR06	0		0	IOC Quality Assurance						
BI00000480		Safety & Reliability	541	28JAN04	31MAR06	0		0	Safety & Reliability						
BI21000000	DH	HEPL	541*	28JAN04	31MAR06	0	A	0	HEPL						
4.1.B.2.2 IOC VERIFICATION															
BI00000490	DH	Develop IOC Verification Plan	150	11DEC01	23JUL02	1	E	0	Develop IOC Verification Plan						
BI22000000	DH	Update IOC Verification Plan	240	01OCT02	19SEP03	82	A	0	Update IOC Verification Plan						
BI00000500		System Verification	541	28JAN04	31MAR06	0		0	System Verification						
BI00000510		Commands & Procedures Verification	541	28JAN04	31MAR06	0		0	Commands & Procedures Verification						
BI00000520		Telemetry Verification	541	28JAN04	31MAR06	0		0	Telemetry Verification						
BI23000000	DH	HEPL	541*	28JAN04	31MAR06	0	A	0	HEPL						
4.1.B.3 MISSION & OPERATIONS PLANNING															
4.1.B.3.1 OPERATIONS CONCEPT DEVELOPMENT															
BI31000020	DH	Support Mission Operations Concept Development	160	04APR00A	29SEP00A		E	100	Support Mission Operations Concept Development						
BI00000530	DH	Define Requirements	105	29NOV00A	03MAY01A		E	100	Define Requirements						
BI00000550	DH	Interface Analysis	254	20AUG01A	25JUN02	20	A	24	Interface Analysis						
BI00000540	DH	Command & Telemetry Requirements	10	04DEC01*	17DEC01	46	E	0	Command & Telemetry Requirements						
BI31000000	DH	Command & Telemetry Requirements	100	06FEB02	27JUN02	18	A	0	Command & Telemetry Requirements						
BI31000010	DH	ICD Development	250	01OCT02	03OCT03	32	A	0	ICD Development						
4.1.B.3.2 INTEGRATION & TEST PLANNING															
BI00000560	DH	LAT I&T Planning	254	20AUG01A	25JUN02	20	A	23	LAT I&T Planning						
BI00000570	DH	Mission I&T Planning	150	11DEC01	23JUL02	1	A	0	Mission I&T Planning						
BI32000000	DH	Mission I&T Planning	240	01OCT02	19SEP03	42	A	0	Mission I&T Planning						
4.1.B.3.3 MISSION OPERATIONS PLANNING															
BI00000580	DH	Launch & Early Operations Planning	541	28JAN04	31MAR06	0	A	0	Launch & Early Operations Planning						
BI00000590	DH	Science Operations Planning	541	28JAN04	31MAR06	0	A	0	Science Operations Planning						
BI00000600	DH	Operations & Procedures Documentation	541	28JAN04	31MAR06	0	A	0	Operations & Procedures Documentation						
BI33000000	DH	Simulation & Training Planning	541	28JAN04	31MAR06	0	A	0	Simulation & Training Planning						
4.1.B.4 LAT OPERATIONS FACILITY															
4.1.B.4.1 SYSTEM CONCEPTUAL DESIGN															
BI00000640		Concept Development	87*	04JUN01A	16AUG01A			100	Concept Development						
BI00000610		Trade Studies	106	04JUN01A	30NOV01	7		83	Trade Studies						
BI00000620		COTS Software Evaluations	106	04JUN01A	30NOV01	7		83	COTS Software Evaluations						
BI41000000	DH	HEPL	126*	04JUN01A	30NOV01	7	E	50	HEPL						
BI41000010		Trade Studies	150	11DEC01	23JUL02	1		0	Trade Studies						
BI41000020		COTS Software Evaluations	150	11DEC01	23JUL02	1		0	COTS Software Evaluations						
BI41600000		Concept Development	150	11DEC01	23JUL02	1		0	Concept Development						
BI41H00000	DH	HEPL	150*	11DEC01	23JUL02	1	A	0	HEPL						
BI41N00000		ND: Online System Spec from I&T to IOC	0		01MAY02*	117		0	ND: Online System Spec from I&T to IOC						
BI41PR0000	DH	PR Design System	1	02MAY02	02MAY02	117	E	0	PR Design System						
BI41P00000	DH	Receive Design System	1	13JUN02	13JUN02	117	E	0	Receive Design System						
BI41H10000	DH	Design Integration	240	01OCT02	19SEP03	42	E	0	Design Integration						
4.1.B.4.2 DATA ACQUISITION S/W DEVELOPMENT															
BI00000650	DH	Data Acquisition Management	100	28JAN04	17JUN04	5	E	0	Data Acquisition Management						
BI00000660	DH	Network Interfaces	100	28JAN04	17JUN04	5	E	0	Network Interfaces						
BI00000670	DH	Data Decommutation & Storage	100	28JAN04	17JUN04	5	E	0	Data Decommutation & Storage						
BI00000680	DH	Data Distribution	100	28JAN04	17JUN04	5	E	0	Data Distribution						
BI00000690	DH	Data Quality Monitoring	100	28JAN04	17JUN04	5	E	0	Data Quality Monitoring						
BI00000700		Data Acquisition S/W Development Release 1	0		17JUN04	5		0	Data Acquisition S/W Development Release 1						
BI00000710	DH	Software Update 1	150	18JUN04	28JAN05	65	A	0	Software Update 1						
BI00000720		Data Acquisition S/W Development Release 2	0		28JAN05	65		0	Data Acquisition S/W Development Release 2						
BI42000000	DH	Software Update 2	160	31JAN05	15SEP05	65	A	0	Software Update 2						
BI42000010		Data Acquisition S/W Development Release 3	0		15SEP05	65		0	Data Acquisition S/W Development Release 3						
BI42000020	DH	Software Update 3	80	16SEP05	18JAN06	0	A	0	Software Update 3						
BI42000030		Data Acquisition S/W Development Release 4	0		18JAN06	0		0	Data Acquisition S/W Development Release 4						
BI42000040	DH	Software Maintenance	51	19JAN06	31MAR06	0	A	0	Software Maintenance						
4.1.B.4.3 OPERATIONS S/W DEVELOPMENT															
BI00000730	DH	Instrument Monitoring	100	28JAN04	17JUN04	0	E	0	Instrument Monitoring						
BI00000740	DH	Command Interface	100	28JAN04	17JUN04	0	E	0	Command Interface						
BI00000750	DH	Engineering Displays	100	28JAN04	17JUN04	0	E	0	Engineering Displays						
BI00000760	DH	Trend Analysis	100	28JAN04	17JUN04	0	E	0	Trend Analysis						
BI00000770	DH	Observation Planning	100	28JAN04	17JUN04	0	E	0	Observation Planning						
BI00000780	DH	Operational Coordination	100	28JAN04	17JUN04	0	E	0	Operational Coordination						
BI00000790	DH	Logging & Reporting	100	28JAN04	17JUN04	0	E	0	Logging & Reporting						
BI00000800		Operations S/W Development Release 1	0		17JUN04	0		0	Operations S/W Development Release 1						
BI00000810	DH	Software Update 1	150	18JUN04	28JAN05	0	A	0	Software Update 1						
BI00000820		Operations S/W Development Release 2	0		28JAN05	0		0	Operations S/W Development Release 2						
BI43000000	DH	Software Update 2	160	31JAN05	15SEP05	0	A	0	Software Update 2						
BI43000010		Operations S/W Development Release 3	0		15SEP05	0		0	Operations S/W Development Release 3						
BI43000020	DH	Software Update 3	80	16SEP05	18JAN06	0	A	0	Software Update 3						
BI43000030		Operations S/W Development Release 4	0		18JAN06	0		0	Operations S/W Development Release 4						
BI43000040	DH	Software Maintenance	51	19JAN06	31MAR06	0	A	0	Software Maintenance						
4.1.B.4.4 COMMAND & TELEMETRY DEVELOPMENT															
BI00000830	DH	Command Database Development	210	01OCT02	07AUG03	3	A	0	Command Database Development						
BI00000840	DH	Telemetry Database Development	210	01OCT02	07AUG03	3	A	0	Telemetry Database Development						
BI00000850	DH	Command Procedures Development	210	01OCT02	07AUG03	3	A	0	Command Procedures Development						
BI44L40000		Calibration Unit Database Release	0		07AUG03	3		0	Calibration Unit Database Release						
BI44N00000	DH	Command Database Update	90	08AUG03	16DEC03	3	A	0	Command Database Update						
BI44N00010	DH	Telemetry Database Update	90	08AUG03	16DEC03	3	A	0	Telemetry Database Update						
BI44N00020	DH	Command Procedure Update	90	08AUG03	16DEC03	3	A	0	Command Procedure Update						

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01 FY02 FY03 FY04 FY05 FY06 FY07							
BI00001320	DH	Implement Calibration Database	220	01OCT02	21AUG03	0	E	0								
BI00001310	DH	Collect & Process Calibration Data	598	26JUN03	18NOV05	34	A	0								
BI64000000	DH	Update Calibration Database	643	22AUG03	31MAR06	0	A	0								
4.1.B.6.5 LAT TESTBED SUPPORT																
BI65000000	DH	Support Testbed Planning	200	06FEB02	18NOV02	0	A	0								
BI65000010	DH	Develop Testbed Procedures	220	19NOV02	10OCT03	0	E	0								
BI65000020	DH	Collect & Process Testbed Data	375	13OCT03	21APR05	0	A	0								
BI65000030	DH	Maintain Testbed	233	22APR05	31MAR06	0	A	0								
4.1.B.7 LAT INTEGRATION & TEST																
4.1.B.7.1 QUALIFICATION UNIT TEST SUPPORT																
4.1.B.7.1.1 FUNCTIONAL TESTS																
BI00001330		Functional Test Modules A/B	15	18AUG03	08SEP03	137		0								
BI71100000	DH	HEPL	70*	18AUG03	24NOV03	97	E	0								
BI00001340		Functional Test Modules 1/2	15	04NOV03	24NOV03	97		0								
4.1.B.7.1.2 BEAM TESTS																
BI712M0000		ND: Calibration Unit Beam Test from I&T to IOC	0		15JAN04*	68		0								
BI00001350	DH	SLAC Beam Test	30	16JAN04	01MAR04	68	E	0								
4.1.B.7.2 FLIGHT UNIT TEST SUPPORT																
BI00001370	DH	Functional Tests	90	09FEB04	15JUN04	139	E	0								
BI72M00000		ND: LAT EMI/EMC Test from I&T to IOC	0		09AUG04*	101		0								
BI00001380	DH	EMI/EMC Test	10	10AUG04	23AUG04	101	E	0								
BI72M10000		ND: LAT Vib/Acoustic Test from I&T to IOC	0		30AUG04*	96		0								
BI00001390	DH	Vib/Acoustic Test	20	31AUG04	28SEP04	96	E	0								
BI72M20000		ND: LAT Thermal Test from I&T to IOC	0		21SEP04*	101		0								
BI00001400	DH	TB/TV Test	25	29SEP04	02NOV04	96	E	0								
BI72M30000		ND: LAT Performance Test from I&T to IOC	0		26OCT04*	101		0								
BI72000000	DH	Performance Test	10	03NOV04	16NOV04	96	E	0								
4.1.B.7.3 LAT I&T TRAVEL																
BI00001410	DH	Domestic Travel	129*	18AUG03	01MAR04	68	A	0								
BI00001420		International Travel	129*	18AUG03	01MAR04	68		0								
4.1.B.8 MISSION SYSTEMS INTEGRATION & TEST																
4.1.B.8.1 OBSERVATORY TESTING																
BI00001430	DH	Pre-Turnover Functional Test	15	10FEB05	03MAR05	44	E	0								
BI00001440		LAT Turnover	0	23MAR05		31		0								
BI00001450	DH	Functional Tests	10	23MAR05	05APR05	31	E	0								
BI00001460	DH	EMI/EMC Test Support	10	06APR05	19APR05	31	E	0								
BI81M00000		ND: LAT Observatory TV Test from SCO to IOC	0		20APR05	30		0								
BI00001470	DH	TV/TB Test Support	30	21APR05	02JUN05	30	E	0								
4.1.B.8.2 GROUND SYSTEMS COMPATIBILITY TESTS																
BI82000010		GSCT Procedure Development	147	17JUN05	24JAN06	25		0								
BI82000000	DH	HEPL	147	17JUN05	24JAN06	25	E	0								
BI82N00000		ND: Ground System Interface Test from SCO to IOC	0		16SEP05*	8		0								
BI00001480		Ground Systems Interface Test	5	19SEP05	23SEP05	64		0								
BI82N00010		ND: Mission Sequence Test from SCO to IOC	0		17OCT05*	48		0								
BI00001490		Mission Sequence Test	5	18OCT05	24OCT05	48		0								
BI00001680		IOC Readiness Review	0		10JAN06	4		0								
BI82N00020		ND: End-to-End Test from SCO to IOC	0		17JAN06*	0		0								
BI00001500		End-to-End Test	5	18JAN06	24JAN06	0		0								
4.1.B.8.3 TRAINING SIMULATIONS																
BI83000010		Sim Procedures Development	100	19SEP05	16FEB06	8		0								
BI83000000	DH	HEPL	101	19SEP05	17FEB06	29	E	0								
BI00001510		Simulation 1	5	03OCT05*	07OCT05	83		0								
BI83M00000		Simulation 1 Complete	0		07OCT05	115		0								
BI00001520		Simulation 2	5	05DEC05*	09DEC05	45		0								
BI83M10000		Simulation 2 Complete	0		09DEC05	72		0								
BI00001530		Simulation 3	5	13FEB06*	17FEB06	7		0								
BI83M20000		Simulation 3 Complete	0		17FEB06	7		0								
4.1.B.8.4 LAUNCH & EARLY OPERATIONS SUPPORT																
BI84000010		Launch Preparation	25	25JAN06	01MAR06	0		0								
BI84000000	DH	HEPL	47	25JAN06	31MAR06	0	E	0								
BI00001540		Pre-launch Functional Test	4	24FEB06	01MAR06	2		0								
BI00001560		Ready for GLAST Launch	0		01MAR06	0		0								
BI00001570		S/C Activation & Checkout	11	02MAR06	16MAR06	1		0								
BI00001550		Launch Support	20	02MAR06	29MAR06	2		0								
BI00001700		Operation Readiness Review-IOC	0		06MAR06	9		0								
BI00001580		LAT Activation & Checkout	10	17MAR06	30MAR06	1		0								
BI84000300		LAT Activation & Checkout Complete	0		31MAR06	0		0								
4.1.B.8.5 MSI&T TRAVEL																
BI00001610	DH	Domestic Travel	283*	10FEB05	31MAR06	0	A	0								
BI00001620		International Travel	283*	10FEB05	31MAR06	0		0								

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year									
									FY01	FY02	FY03	FY04	FY05	FY06	FY07			
4.1.C EDUCATION AND PUBLIC OUTREACH																		
CE0000010		EPO Contract Begin	0		01JUN00A			100										
4.1.C.1 MANAGEMENT																		
CE1000010	DS	Quarterly Reports 1	20	06JUN00A	03JUL00A		E	100										
CE1000020	DS	Quarterly Reports 2	60	10JUL00A	30SEP00A		E	100	Quarterly Reports 2									
CE1000060	DS	Quarterly Reports 3	60	01OCT00A	02JAN01A		E	100	Quarterly Reports 3									
CE10000100	DS	Quarterly Reports 4	60	05JAN01A	02APR01A		E	100	Quarterly Reports 4									
CE10000140	DS	Quarterly Reports 5	60	09APR01A	02JUL01A		E	100	Quarterly Reports 5									
CE10000180	DS	Quarterly Reports 6	60	06JUL01A	28SEP01A		E	100	Quarterly Reports 6									
CE10000220	DS	Quarterly Reports 7	58	01OCT01A	21DEC01	0	E	50	Quarterly Reports 7									
CE10000260	DS	Quarterly Reports 8	61	02JAN02	29MAR02	0	E	0	Quarterly Reports 8									
CE10000300	DS	Quarterly Reports 9	64	01APR02	28JUN02	0	E	0	Quarterly Reports 9									
CE10000340	DS	Quarterly Reports 10	64	01JUL02	30SEP02	0	E	0	Quarterly Reports 10									
CE10000380	DS	Quarterly Reports 11	58	01OCT02	23DEC02	0	E	0	Quarterly Reports 11									
CE10000420	DS	Quarterly Reports 12	61	02JAN03	31MAR03	0	E	0	Quarterly Reports 12									
CE10000460	DS	Quarterly Reports 13	64	01APR03	30JUN03	0	E	0	Quarterly Reports 13									
CE10000500	DS	Quarterly Reports 14	64	01JUL03	30SEP03	0	E	0	Quarterly Reports 14									
CE10000540	DS	Quarterly Reports 15	58	01OCT03	23DEC03	0	E	0	Quarterly Reports 15									
CE10000580	DS	Quarterly Reports 16	62	02JAN04	31MAR04	0	E	0	Quarterly Reports 16									
CE10000620	DS	Quarterly Reports 17	64	01APR04	30JUN04	0	E	0	Quarterly Reports 17									
CE10000660	DS	Quarterly Reports 18	64	01JUL04	30SEP04	0	E	0	Quarterly Reports 18									
CE10000700	DS	Quarterly Reports 19	58	01OCT04	23DEC04	0	E	0	Quarterly Reports 19									
CE10000740	DS	Quarterly Reports 20	62	03JAN05	31MAR05	0	E	0	Quarterly Reports 20									
CE10000780	DS	Quarterly Reports 21	64	01APR05	30JUN05	0	E	0	Quarterly Reports 21									
CE10000820	DS	Quarterly Reports 22	64	01JUL05	30SEP05	0	E	0	Quarterly Reports 22									
CE10000830	DS	Quarterly Reports 23	58	03OCT05	23DEC05	0	E	0	Quarterly Reports 23									
CE10000840	DS	Quarterly Reports 24	62	03JAN06	31MAR06	0	E	0	Quarterly Reports 24									
4.1.C.2 RELIABILITY & QUALITY ASSURANCE (ASSESSMENT)																		
CE20000000	DS	Assessment	55	13JUL01A	28SEP01A		A	100	Assessment									
CE2PR00040	DS	PR West Ed Assessment	1	02JAN02	02JAN02	195	A	0	PR West Ed Assessment									
CE20000010	DS	Assessment	189	02JAN02	30SEP02	7	A	0	Assessment									
CE2PR00000	DS	PR West Ed Assessment	1	01OCT02	01OCT02	253	A	0	PR West Ed Assessment									
CE20000020	DS	Assessment	247	01OCT02	30SEP03	7	A	0	Assessment									
CE2PR00010	DS	PR West Ed Assessment	1	01OCT03	01OCT03	254	A	0	PR West Ed Assessment									
CE20000030	DS	Assessment	248	01OCT03	30SEP04	7	A	0	Assessment									
CE2PR00020	DS	PR West Ed Assessment	1	01OCT04	01OCT04	254	A	0	PR West Ed Assessment									
CE20000040	DS	Assessment	248	01OCT04	30SEP05	7	A	0	Assessment									
CE2PR00030	DS	PR West Ed Assessment	1	03OCT05	03OCT05	119	A	0	PR West Ed Assessment									
CE20000050	DS	Assessment	113	03OCT05	22MAR06	7	A	0	Assessment									
4.1.C.3 WEB MATERIALS																		
4.1.C.3.1 WEB SITE SUPPORT																		
CE30000020	DS	Web Site Support	100	10MAY00A	30SEP00A		A	100	Web Site Support									
CE31000000	DS	Web Site Support	247	01OCT00A	28SEP01A		A	100	Web Site Support									
CE31000010	DS	Web Site Support	247	01OCT01A	30SEP02	0	A	9	Web Site Support									
CE31000020	DS	Web Site Support	247	01OCT02	30SEP03	0	A	0	Web Site Support									
CE31000030	DS	Web Site Support	248	01OCT03	30SEP04	0	A	0	Web Site Support									
CE31000050	DS	Web Site Support	248	01OCT04	30SEP05	0	A	0	Web Site Support									
CE31000060	DS	Web Site Support	120	03OCT05	31MAR06	0	A	0	Web Site Support									
4.1.C.3.2 SPACE MYSTERIES																		
CE32PR0000	DS	PR Video Discovery: Space Mysteries: Module 1	1	01OCT03	01OCT03	552	E	0	PR Video Discovery: Space Mysteries: M									
CE30000320	DS	Space Mysteries: Module 1	248	01OCT03	30SEP04	58	E	0	Space Mysteries: Module 1									
CE32M10000		Space Mysteries: Module 1 Complete	0		30SEP04	305		0	Space Mysteries: Module 1 Complete									
CE32PR0010	DS	PR Video Discovery: Space Mysteries: Module 2	1	01OCT04	01OCT04	305	E	0	PR Video Discovery: Space									
CE30000420	DS	Space Mysteries: Module 2	248	01OCT04	30SEP05	58	E	0	Space Mysteries: Module 2									
CE32M20000		Space Mysteries: Module 2 Complete	0		30SEP05	58		0	Space Mysteries: Module 2 Complete									
4.1.C.4 EDUCATOR TRAINING																		
4.1.C.4.1 CSTA																		
CE40000000	DS	CSTA 1	5	05OCT00A	11OCT00A		E	100	CSTA 1									
CE40000100	DS	CSTA 2	5	01OCT02	07OCT02	781	E	0	CSTA 2									
CE40000140	DS	CSTA 3	5	01OCT03	07OCT03	539	E	0	CSTA 3									
CE40000200	DS	CSTA 4	5	01OCT04	07OCT04	296	E	0	CSTA 4									
CE41000000	DS	CSTA 5	5	03OCT05	07OCT05	53	E	0	CSTA 5									
4.1.C.4.2 NSTA																		
CE40000010	DS	NSTA 1	5	15MAR01A	21MAR01A		E	100	NSTA 1									
CE40000060	DS	NSTA 2	5	06MAR02	12MAR02	989	E	0	NSTA 2									
CE40000150	DS	NSTA 3	5	04MAR04	10MAR04	501	E	0	NSTA 3									
CE40000210	DS	NSTA 4	5	04MAR05	10MAR05	258	E	0	NSTA 4									
CE42000000	DS	NSTA 5	5	06MAR06	10MAR06	15	E	0	NSTA 5									
4.1.C.4.3 NCTM																		
CE40000080	DS	NCTM 1	5	03APR02	09APR02	964	E	0	NCTM 1									
CE40000130	DS	NCTM 2	5	02APR03	08APR03	723	E	0	NCTM 2									
CE40000180	DS	NCTM 3	5	01APR04	07APR04	481	E	0	NCTM 3									
CE40000230	DS	NCTM 4	5	01APR05	07APR05	238	E	0	NCTM 4									
CE43000000	DS	NCTM 5	5	06MAR06	10MAR06	15	E	0	NCTM 5									
4.1.C.4.4 MSFC																		
CE40000070	DS	MSFC 1	5	03APR02	09APR02	974	E	0	MSFC 1									
CE40000170	DS	MSFC 2	5	01APR04	07APR04	486	E	0	MSFC 2									
CE44000000	DS	MSFC 3	5	06MAR06	10MAR06	15	E	0	MSFC 3									
4.1.C.4.5 AMBASSADOR PROGRAM																		
CE40000040	DS	Ambassador Program: Applications	153	29JAN01A	31AUG01A		E	100	Ambassador Program: Applications									
CE40000090	DS	Ambassador Program: Training 1	11	12JUL02	26JUL02	885	E	0	Ambassador Program: Training 1									
CE45000000	DS	Ambassador Program: Training 2	11	11JUL03	25JUL03	640	E	0	Ambassador Program: Training 2									
CE40000190	DS	Ambassador Program: Training 3	11	12JUL04	26JUL04	403	E	0	Ambassador Program: Training 3									
CE45L00000	DL	Ambassador Program: Training 3	11	12JUL04	26JUL04	393	E	0	Ambassador Program: Training 3									
CE45000010	DS	Ambassador Program: Training 4	11	12JUL05	26JUL05	156	E	0	Ambassador Program: Training 4									
CE45000020	DS	Ambassador Program: Training 5	11	06MAR06	20MAR06	9	E	0	Ambassador Program: Training 5									
CE40000240		Ambassador Program: Launch	12	06MAR06	21MAR06	8		0	Ambassador Program: Launch									
4.1.C.4.6 TEXAS A&M																		
CE40000160	DS	Texas A&M	5	01APR05	07APR05	181	E	0	Texas A&M									

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year									
									FY01	FY02	FY03	FY04	FY05	FY06	FY07			
4.1.C.5 PRINTED MATERIALS AND CURRICULUM DEVELOPMENT																		
4.1.C.5.1 TOPS																		
CE51PR0000	DS	PR TOPS: Module 1	1	01OCT01A	01OCT01A		E	100										
CE50000000	DS	TOPS: Module 1	247	01OCT01A	30SEP02	306	E	50										
CE51M10000		TOPS: Module 1 Complete	0		30SEP02	552		0										
CE51PR0010	DS	PR TOPS: Module 2	1	01OCT02	01OCT02	552	E	0										
CE50000010	DS	TOPS: Module 2	247	01OCT02	30SEP03	306	E	0										
CE51M20000		TOPS: Module 2 Complete	0		30SEP03	553		0										
CE51PR0020	DS	PR TOPS: Module 3	1	01OCT03	01OCT03	553	E	0										
CE50000020	DS	TOPS: Module 3	248	01OCT03	30SEP04	306	E	0										
CE51M30000		TOPS: Module 3 Complete	0		30SEP04	306		0										
4.1.C.5.2 OTHER PRINTED MATERIALS																		
CE10000050	DS	Other Printed Materials	84	01JUN01A	28SEP01A		A	100										
CE52000000	DS	Other Printed Materials	247	01OCT01A	30SEP02	0	A	9										
CE52000010	DS	Other Printed Materials	247	01OCT02	30SEP03	0	A	0										
CE52000030	DS	Other Printed Materials	248	01OCT03	30SEP04	0	A	0										
CE52000040	DS	Other Printed Materials	248	01OCT04	30SEP05	0	A	0										
CE52000060	DS	Other Printed Materials	120	03OCT05	31MAR06	0	A	0										
4.1.C.6 SLAC VVC EXHIBIT																		
CE60000000	DL	SLAC VVC Exhibit	248	01OCT03	30SEP04	306	A	0										
4.1.C.7 PBS TV SPECIAL																		
CE70000000	DS	R&D	84	01JUN01A	28SEP01A		A	100										
CE7RD00010	DS	R&D	247	01OCT01A	30SEP02	7	A	9										
CE7PR00010	DS	PR Lucas R&D	1	01OCT02	01OCT02	253	E	0										
CE7RD00020	DS	R&D	247	01OCT02	30SEP03	7	E	0										
CE7PR00020	DS	PR Lucas R&D	1	01OCT03	01OCT03	254	E	0										
CE7RD00030	DS	R&D	248	01OCT03	30SEP04	7	E	0										
CE7PR00030	DS	PR Lucas Production	1	01OCT04	01OCT04	254	E	0										
CE70000010	DS	Production	248	01OCT04	30SEP05	7	E	0										
CE7P000000	DS	Production	113	03OCT05	22MAR06	7	E	0										
CE70000030		On Air	0		22MAR06	7		0										
4.1.C.8 TELESCOPE NETWORK																		
CEB0000000	DS	R&D	243	06OCT00A	28SEP01A		A	100										
CE8PR00000	DS	PR FMU R&D	1	01OCT01A	01OCT01A		A	100										
CE8R000000	DS	R&D	247	01OCT01A	30SEP02	7	A	9										
CE8PR00010	DS	PR FMU R&D	1	01OCT02	01OCT02	253	A	0										
CE8R000010	DS	R&D	247	01OCT02	30SEP03	7	A	0										
CE8PR00020	DS	PR FMU Test and Archive	1	01OCT03	01OCT03	254	A	0										
CEB0000010	DS	Test and Archive	248	01OCT03	30SEP04	7	A	0										
CE8PR00030	DS	PR FMU Test and Archive	1	01OCT04	01OCT04	254	A	0										
CE8T000000	DS	Test and Archive	248	01OCT04	30SEP05	7	A	0										
CE8PR00040	DS	PR FMU Test and Archive	1	03OCT05	03OCT05	119	A	0										
CE8T000010	DS	Test and Archive	113	03OCT05	22MAR06	7	A	0										

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year										
									FY01	FY02	FY03	FY04	FY05	FY06	FY07				
4.1.D SCIENCE ANALYSIS SOFTWARE																			
DS000320	DH	Actuals for SAS from HEPL	1,484	03APR00A	31MAR06	0	C	27											Actuals fo
DS000240		Science Analysis Software PDR	0		17AUG01A			100											◆ Science Analysis Software PDR
DS000270		Science Analysis Software Work Complete	0		31OCT01	1,087		0											◇ Science Analysis Software Work Complete
DS000230		LAT Instrument PDR	0		07JAN02	0		0											◆ LAT Instrument PDR
DS000260		LAT Instrument CDR	0		05AUG02	902		0											◇ LAT Instrument CDR
4.1.D.1 SOURCES, SIMULATION & EVENT RECONSTRUCTION																			
4.1.D.1.1 SOURCES																			
DS100010	DW	Upgrade Sources	20	01JUN01A	28JUN01A		E	100											▲ Upgrade Sources
DS100280	DW	Continuing Support: Pre - Instrument PDR	125*	02JUL01A	07JAN02	0	E	69											▲ Continuing Support: Pre - Instrument PDR
DS100020	FJ	Continuing Support	1,048*	08JAN02	31MAR06	0	A	0											▲ Continuing Support
4.1.D.1.2 PROTOTYPE INITIAL FRAMEWORK																			
DS100030	DG	compile/link Root 2.25 w/ Gaudi	2	25SEP00A	26SEP00A		E	100											▲ compile/link Root 2.25 w/ Gaudi
DS100040	FF	define interim hits classes	10	25SEP00A	06OCT00A		E	100											▲ define interim hits classes
DS100050	DL	prototype converters for IRF for ACD, CAL, TK	8	16OCT00A	26OCT00A		E	100											▲ prototype converters for IRF for ACD, CAL, TK
DS100060	DG	prototype converters for IRF for ACD, CAL, TK	8	16OCT00A	26OCT00A		E	100											▲ prototype converters for IRF for ACD, CAL, TK
DS100070	DG	Define MC structure of transient store	2	23OCT00A	24OCT00A		E	100											▲ Define MC structure of transient store
DS100080	DL	create test algorithms for prototype converte	5	26OCT00A	02NOV00A		E	100											▲ create test algorithms for prototype converte
DS100090	DW	Initial Framework Operational	0		02NOV00A			100											◆ Initial Framework Operational
DS100100	DG	macros from hits classes to Root & I/O	5	03NOV00A	10NOV00A		E	100											▲ macros from hits classes to Root & I/O
DS100110	DG	test algorithms for persistent classes	5	10NOV00A	17NOV00A		E	100											▲ test algorithms for persistent classes
DS100120	DG	Initial Persistent Store Operational	0		17NOV00A			100											◆ Initial Persistent Store Operational
DS100130	DL	convert IRF to CsiData	3	20NOV00A	27NOV00A		E	100											▲ convert IRF to CsiData
DS100140	DL	extract CAL recon from glastsim	5	27NOV00A	04DEC00A		E	100											▲ extract CAL recon from glastsim
DS100150	DL	CAL recon operates from TDS	4	04DEC00A	08DEC00A		E	100											▲ CAL recon operates from TDS
DS100160	DL	convert IRF to SiData	3	11DEC00A	13DEC00A		E	100											▲ convert IRF to SiData
DS100170	DL	extract TKR recon from glastsim	1	14DEC00A	14DEC00A		E	100											▲ extract TKR recon from glastsim
DS100180	DL	TKR recon operates from TDS	4	15DEC00A	20DEC00A		E	100											▲ TKR recon operates from TDS
DS100190	DL	buld and run on unix	10	18DEC00A	05JAN01A		E	100											▲ buld and run on unix
DS100200	DL	document build and running on NT	6	18DEC00A	30JAN01A		E	100											▲ document build and running on NT
DS100210	DW	modify GlstSim event display for Gaudi	16	21DEC00A	24JAN01A		E	100											▲ modify GlstSim event display for Gaudi
DS100220	DW	hand off to CAL group	0		21DEC00A			100											◆ hand off to CAL group
DS100230	DL	reproduce ntuples as Root ntuples	3	08JAN01A	10JAN01A		E	100											▲ reproduce ntuples as Root ntuples
DS100240	DL	document build and running on unix	3	08JAN01A	10JAN01A		E	100											▲ document build and running on unix
DS100250	DL	add display for recon data	5	25JAN01A	31JAN01A		E	100											▲ add display for recon data
DS100260	DW	reproduced GlstSim functions in Gaudi framew	0		26JAN01A			100											◆ reproduced GlstSim functions in Gaudi framew
DS100270	DW	hand off to TKR group	0		01FEB01A			100											◆ hand off to TKR group
4.1.D.1.3 GISMO SIMULATION																			
4.1.D.1.3.1 EXISTING SIMULATION UPGRADE																			
DS100300	DW	Accept source info from FluxSvc	1	31JAN01A	31JAN01A		E	100											▲ Accept source info from FluxSvc
DS100301	DW	configure Gismo as a Gaudi service	5	05FEB01A	15FEB01A		E	100											▲ configure Gismo as a Gaudi service
DS100302	DW	use Gaudi random number service	1	16FEB01A	16FEB01A		E	100											▲ use Gaudi random number service
DS100303	DW	Display event in GUI	1	16FEB01A	16FEB01A		E	100											▲ Display event in GUI
DS100304	DW	Convert internal MCParticle tree to TDS McPar	5	20FEB01A	23FEB01A		E	100											▲ Convert internal MCParticle tree to TDS McPar
4.1.D.1.3.2 NEW GEOMETRY & HITS SCHEMES																			
DS100320	DW	write Gismo geometry interpreter	10	06FEB02	20FEB02	66	E	0											▲ write Gismo geometry interpreter
DS100330	DW	Generate Hits (with volume IDs)	5	21FEB02	27FEB02	66	E	0											▲ Generate Hits (with volume IDs)
4.1.D.1.3.3 ONGOING SUPPORT																			
DS100340	DW	ongoing support - 6 months @ 15%	129*	01MAY01A	31OCT01A		A	100											▲ ongoing support - 6 months @ 15%
DS100350	DW	ongoing support @ 5 %	1,087*	01NOV01	31MAR06	0	A	0											▲ ongoing s
4.1.D.1.4 GEANT4 SIMULATION																			
4.1.D.1.4.1 EXTERNAL PACKAGE REQUIREMENTS																			
DS100400	DL	create reqs file on NT	2	04DEC00A	05DEC00A		E	100											▲ create reqs file on NT
DS100410	DL	build test app on NT	2	05DEC00A	06DEC00A		E	100											▲ build test app on NT
DS100420	DL	modify extlib package for unix	1	07DEC00A	07DEC00A		E	100											▲ modify extlib package for unix
DS100430	DL	build test app on unix	1	08DEC00A	08DEC00A		E	100											▲ build test app on unix
4.1.D.1.4.2 DETMODEL GEOMETRY CONVERTER																			
DS100440	FI	Create detModel geometry converter	5	14MAR01A	20MAR01A		E	100											▲ Create detModel geometry converter
4.1.D.1.4.3 GEANT4 PROTOTYPE																			
DS100890	DW	Define Simulator Interface	21	16NOV01*	18DEC01	0	E	0											▲ Define Simulator Interface
DS100450	FI	configure G4 as a Gaudi service	20	19DEC01	25JAN02	0	E	0											▲ configure G4 as a Gaudi service
DS100470	FI	use FluxSvc as 'gun'	2	28JAN02	29JAN02	9	E	0											▲ use FluxSvc as 'gun'
DS100480	FI	use Gaudi random number service	3	28JAN02	30JAN02	8	E	0											▲ use Gaudi random number service
DS100490	FI	implement converters to MC Truth & Hits class	11	28JAN02	11FEB02	0	E	0											▲ implement converters to MC Truth & Hits class
4.1.D.1.4.4 GEANT 4 VALIDATION																			
DS100500	FI	Validate EM Physics	108*	11JUN01A	09NOV01	53	E	94											▲ Validate EM Physics
DS100510		Validate Hadronic Physics	40	12NOV01	17JAN02	53		0											▲ Validate Hadronic Physics
DS100520	FI	compare to Gismo	40	12FEB02*	09APR02	37	E	0											▲ compare to Gismo
DS100970	FI	GEANT4 Validation Complete	0		09APR02	37		0											◆ GEANT4 Validation Complete
4.1.D.1.4.5 ONGOING SUPPORT																			
DS100540	FI	Ongoing Support	1,024*	12FEB02	31MAR06	0	A	0											▲ Ongoing S
4.1.D.1.5 ACD SIMULATION																			
4.1.D.1.5.1 EXISTING DIGITIZATION UPDATE																			
DS100550	DG	define digi classes	5	12DEC00A	18DEC00A		E	100											▲ define digi classes
DS100560	DG	fill new digis from irf using existing digi	12	22JAN01A	06FEB01A		E	100											▲ fill new digis from irf using existing digi
4.1.D.1.5.2 UPGRADE FOR NEW HITS SCHEME																			
DS100570	DG	define hits classes	6	04DEC00A	11DEC00A		E	100											▲ define hits classes
DS100580	DG	fill new digis from MC Truth using existing d	3	12FEB02	14FEB02	221	E	0											▲ fill new digis from MC Truth using existing d
4.1.D.1.5.3 ONGOING SUPPORT																			
DS100590	DG	ongoing support	800	15FEB02	09MAY05	221	A	0											▲ ongoing support
4.1.D.1.6 CAL GEOMETRY, SIMULATION, & RECONSTRUCTION																			
4.1.D.1.6.1 GEOMETRY																			
DS100600	FF	Compression Cell concept	40	02OCT00A	28NOV00A		E	100											▲ Compression Cell concept
DS100610	DN	hardwired balloon geometry for CalRecon	3	05MAR01A	07MAR01A			100											▲ hardwired balloon geometry for CalRecon
DS100620	DN	hardwired flight geometry for CALRecon	3	27MAR01A	29MAR01A			100											▲ hardwired flight geometry for CALRecon
4.1.D.1.6.2 SIMULATION																			
4.1.D.1.6.2.1 INITIAL VERSION OF SIMULATION																			
DS100630	DN	document existing SIM code	25	11SEP00A	13OCT00A			100											▲ document existing SIM code
DS100640	DN	CAL-only trigger simulation	60	02MAR01A	31MAY01A			100											▲ CAL-only trigger simulation

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year												
									FY01	FY02	FY03	FY04	FY05	FY06	FY07						
4.1.D.1.6.2.2 SIMULATION IMPROVEMENTS																					
DS100650	DN	define hits classes	21	09NOV00A	11DEC00A			100	define hits classes												
DS100660	DN	define digi classes	20	29JAN01A	23FEB01A			100	define digi classes												
DS100710	FF	low energy corrections	40*	17SEP01A	09NOV01	1,080	E	83	low energy corrections												
DS100980	DN	Create Digi Algorithm for Ideal Instrument (NRL)	40	05NOV01*	10JAN02	0	E	0	Create Digi Algorithm for Ideal Instrument (NRL)												
DS100985	FF	Create Digi Algorithm for Ideal Instrument (Fr)	40	05NOV01*	10JAN02	0	E	0	Create Digi Algorithm for Ideal Instrument (Fr)												
DS100990	DN	Create Digi Algorithm for Real Instrument (NRL)	30	11JAN02	25FEB02	0	E	0	Create Digi Algorithm for Real Instrument (NRL)												
DS100995	FF	Create Digi Algorithm for Real Instrument (Fr)	30	11JAN02	25FEB02	0	E	0	Create Digi Algorithm for Real Instrument (Fr)												
DS101180	DN	Add Heavy Ion Physics to GEANT4 (NRL)	80	12FEB02	05JUN02	0	A	0	Add Heavy Ion Physics to GEANT4 (NRL)												
DS101185	FF	Add Heavy Ion Physics to GEANT4 (Fr)	80	12FEB02	05JUN02	0	A	0	Add Heavy Ion Physics to GEANT4 (Fr)												
DS101160	DN	Create Algorithms to Handle Failure Modes (NRL)	30	26FEB02	08APR02	0	E	0	Create Algorithms to Handle Failure Modes (NRL)												
DS101165	FF	Create Algorithms to Handle Failure Modes (Fr)	30	26FEB02	08APR02	0	E	0	Create Algorithms to Handle Failure Modes (Fr)												
DS100680	DN	Ongoing Support: Simulation (NRL)	985*	09APR02	31MAR06	0	A	0	Ongoing Support: Simulation (NRL)										Ongoing S		
DS101170	DN	Validate GEANT4 for Calorimeter (NRL)	60	10APR02	03JUL02	924	E	0	Validate GEANT4 for Calorimeter (NRL)												
DS101175	FF	Validate GEANT4 for Calorimeter (Fr)	60	10APR02	03JUL02	924	E	0	Validate GEANT4 for Calorimeter (Fr)												
DS100690	FF	Perform Heavy Ion Simulations	60	06JUN02*	29AUG02	0	A	0	Perform Heavy Ion Simulations												
DS101190	DN	Perform Heavy Ion Analysis (NRL)	80	30AUG02	02JAN03	0	A	0	Perform Heavy Ion Analysis (NRL)												
DS101280	FF	Perform Heavy Ion Analysis (Fr)	80	30AUG02	02JAN03	0	A	0	Perform Heavy Ion Analysis (Fr)												
4.1.D.1.6.3 RECONSTRUCTION																					
4.1.D.1.6.3.1 INITIAL VERSION OF RECONSTRUCTION																					
DS100740	FF	document existing RECON code	25	27SEP00A	31OCT00A		E	100	document existing RECON code												
DS100720	DN	re-establish calibrations	3	05MAR01A	07MAR01A			100	re-establish calibrations												
DS100730	DN	modify CalRecon for flight geometry	5	30MAR01A	05APR01A			100	modify CalRecon for flight geometry												
DS100750	DN	port CAL tb_recon to Gaudi	10	17MAY01A	31MAY01A			100	port CAL tb_recon to Gaudi												
4.1.D.1.6.3.3 ITERATIVE RECONSTRUCTION W/ TRACKER																					
DS101290	DN	Determine Req'ts for Iterative Reconstr'n (NRL)	10	07JAN02*	18JAN02	4	E	0	Determine Req'ts for Iterative Reconstr'n (NRL)												
DS101295	FF	Determine Req'ts for Iterative Reconstr'n (Fr)	10	07JAN02*	18JAN02	1,039	E	0	Determine Req'ts for Iterative Reconstr'n (Fr)												
DS101305	DN	Create Prototype Design for Iter. Recon (NRL)	30	22JAN02	05MAR02	4	E	0	Create Prototype Design for Iter. Recon (NRL)												
DS101310	FF	Create Prototype Design for Iter. Recon (Fr)	30	22JAN02	05MAR02	4	E	0	Create Prototype Design for Iter. Recon (Fr)												
DS101315	DN	Implement Prototype Design for Iter. Recon (NRL)	60	06MAR02	29MAY02	4	E	0	Implement Prototype Design for Iter. Recon (NRL)												
DS101320	FF	Implement Prototype Design for Iter. Recon (Fr)	60	06MAR02	29MAY02	4	E	0	Implement Prototype Design for Iter. Recon (Fr)												
DS100860	FF	Ongoing Support: Reconstruction (Fr)	945*	05JUN02	31MAR06	0	A	0	Ongoing Support: Reconstruction (Fr)										Ongoing S		
DS100865	DN	Ongoing Support: Reconstruction (NRL)	945*	05JUN02	31MAR06	0	A	0	Ongoing Support: Reconstruction (NRL)										Ongoing S		
4.1.D.1.6.3.4 FAILURE MODES / PERFORMANCE STATE																					
DS101330	FF	Prototype Structure of Failure Mode Algorithms	40	09APR02	04JUN02	0	E	0	Prototype Structure of Failure Mode Algorithms												
4.1.D.1.7 TRACKER GEOMETRY, SIMULATION & RECONSTRUCTION																					
4.1.D.1.7.1 SIMULATION IMPROVEMENTS																					
DS100910	DL	define digi classes	20	31JAN01A	28FEB01A		E	100	define digi classes												
DS100900	DL	define hits classes	13	09FEB01A	28FEB01A		E	100	define hits classes												
DS100920	DL	Use Existing Digi Alg to Use IRF	10	01MAR01A	14MAR01A		E	100	Use Existing Digi Alg to Use IRF												
DS100930	DL	use existing digi alg to Use MC Hits	10	12FEB02	26FEB02	0	E	0	use existing digi alg to Use MC Hits												
DS100940	DL	ongoing support	1,014*	27FEB02	31MAR06	0	A	0	ongoing support										ongoing s		
4.1.D.1.7.2 DIGITIZATION IMPROVEMENTS																					
DS100950	FI	improve charge sharing	247*	02APR01A	01APR02	43	A	61	improve charge sharing												
DS100960	FI	Improve TOT Simulation	247*	02APR01A	01APR02	43	A	61	Improve TOT Simulation												
4.1.D.1.7.3 INITIAL TRACKER RECONSTRUCTION																					
DS101000	DL	port tb_recon to Gaudi	20	05MAR01A	30MAR01A		E	100	port tb_recon to Gaudi												
DS101020	DL	supply hardwired tb_recon geometry for flight	10	17APR01A	30APR01A		E	100	supply hardwired tb_recon geometry for flight												
DS101010	DL	supply hardwired tb_recon geometry for balloo	5	24APR01A	30APR01A		E	100	supply hardwired tb_recon geometry for balloo												
DS101030	DL	add recon to Event display	3	01MAY01A	03MAY01A		E	100	add recon to Event display												
DS101040	DL	modify recon for flight instrument	10	04MAY01A	17MAY01A		E	100	modify recon for flight instrument												
4.1.D.1.7.4 TRACKER RECONSTRUCTION REDESIGN: PATREC & FIT																					
DS101050	DL	write requirements for sim and recon	10	19MAR01A	30MAR01A		E	100	write requirements for sim and recon												
DS101060	DL	use PDR as case study	40	01JUN01A	31OCT01A		E	100	use PDR as case study												
DS101300	DL	Design New Tracking Algorithm	30	01NOV01	14DEC01	33	E	0	Design New Tracking Algorithm												
DS101070	DL	morph recon geometry to adhere to new xml sch	5	12FEB02	19FEB02	0	E	0	morph recon geometry to adhere to new xml sch												
DS101080	DL	patrec uses 2D fit	40	20FEB02	16APR02	0	E	0	patrec uses 2D fit												
DS101090	DL	change from 2D to 3D association	20	17APR02	14MAY02	0	E	0	change from 2D to 3D association												
DS101100	DL	tree classification - prune fake vees	15	15MAY02	05JUN02	0	E	0	tree classification - prune fake vees												
DS101110	DL	Kalman 3D	20	06JUN02	03JUL02	0	E	0	Kalman 3D												
DS101120	DL	energy loss, low E track characterization	20	05JUL02	01AUG02	0	E	0	energy loss, low E track characterization												
DS101130	DL	define new output classes	40	02AUG02	27SEP02	0	E	0	define new output classes												
DS101140	DL	Cal/TKR iterative recon study	20	30SEP02	25OCT02	0	E	0	Cal/TKR iterative recon study												
DS101150	DL	Ongoing Support (SLAC)	844*	28OCT02	31MAR06	0	A	0	Ongoing Support (SLAC)										Ongoing S		
DS101340	FI	Ongoing Support (Italy)	844*	28OCT02	31MAR06	0	A	0	Ongoing Support (Italy)										Ongoing S		
4.1.D.1.8 TRIGGER SIMULATION																					
DS101220	DG	L2/L3 algorithm development	247*	02APR01A	01APR02	0	A	50	L2/L3 algorithm development												
DS101230	DN	add CAL-HI, CAL-LO triggers	5	24MAY01A	31MAY01A			100	add CAL-HI, CAL-LO triggers												
DS101200	DW	create trigger framework	5	25MAY01A	01JUN01A		E	100	create trigger framework												
DS101210	DW	add L1T	3	29MAY01A	31MAY01A		E	100	add L1T												
DS101240	DW	ongoing development	990*	02APR02	31MAR06	0	A	0	ongoing development										ongoing d		
4.1.D.1.9 BACKGROUND REJECTION																					
DS101250	DG	Re-evaluate AO algorithms for PDR	103*	22JUN01A	15NOV01	0	A	89	Re-evaluate AO algorithms for PDR												
DS101260	DL	Ongoing Studies	1,076*	16NOV01	31MAR06	0	A	0	Ongoing Studies										Ongoing S		
4.1.D.1.A MAJOR RELEASES OF SIM & RECONSTRUCTION																					
DS101270	DL	AV: 1st Major Release of Simulation & Reconstr'n	0		09APR02	37		0	AV: 1st Major Release of Simulation & Reconstr'n												
DS101350		Second Major Code Release	0		25OCT02	844		0	Second Major Code Release												
4.1.D.2 ANALYSIS TOOLS																					
4.1.D.2.1 CODING CONVENTIONS																					
DS210000	DL	Create Coding Conventions	0	27JUN00A	30JUN00A		E	100	Create Coding Conventions												
4.1.D.2.2 STATIC CONSTANTS HANDLING																					
DS210200	DL	revise instrument pkg	3	25SEP00A	27SEP00A		E	100	revise instrument pkg												
DS210210	DL	test with instrument pkg	3	28SEP00A	02OCT00A		E	100	test with instrument pkg												
DS210220	DL	revisions to app pkg	1	16OCT00A	16OCT00A		E	100	revisions to app pkg												
DS210230	DL	revisions to pkgs accessing xml directly	3	17OCT00A	19OCT00A		E	100	revisions to pkgs accessing xml directly												
DS210240	DL	install Xerces as extlib	1	20OCT00A	20OCT00A		E	100	install Xerces as extlib												
DS210250	DL	final integration and testing	5	23OCT00A	27OCT00A		E	100	final integration and testing												
4.1.D.2.3 GAUDI UTILITIES																					
DS210280	DL	define Root versions of MC particle classes	2	08FEB01A	09FEB01A		E	100	define Root versions of MC particle classes												

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01 FY02 FY03 FY04 FY05 FY06 FY07							
DS210270	DL	test app to output MC TDS classes	5	08FEB01A	14FEB01A		E	100								
DS210290	DL	algorithm to fill & write out Root versions o	5	15FEB01A	21FEB01A		E	100								
DS210260	DL	package to read in, write out to/from TB99 ra	5	20FEB01A	23FEB01A		E	100								
DS210300	DL	recraft TBIOROOT to separate CAL & TKR depend	12	09MAR01A	26MAR01A		E	100								
DS210310	DG	ongoing support	1,241*	27MAR01A	31MAR06	0	A	12								ongoing s
4.1.D.2.4 EVENT DISPLAY																
4.1.D.2.4.1 GLAST SIM GUI / GRAPHICS																
DS210330	DW	capture text to stdout on Windows	1	25JAN01A	25JAN01A		E	100								
DS210340	DW	rep to display MC Event	1	25JAN01A	25JAN01A		E	100								
DS210320	DW	event loop control: interactive selection of	3	25JAN01A	29JAN01A		E	100								
4.1.D.2.4.2 EVENT DISPLAY FOR ALL CLIENTS																
DS210350	FI	evaluate WIRED	5	29JAN01A	02FEB01A		E	100								
DS210360	FI	Set Event Display Requirements	30	19JUN01A	31JUL01A		E	100								
DS210370	FI	Decide on Event Display Implementation	10	17DEC01*	08JAN02	0	E	0								
DS210380	FI	implement Event Display	60	09JAN02	04APR02	0	A	0								
DS210390	FI	ongoing support	987*	05APR02	31MAR06	0	A	0								ongoing support
4.1.D.2.5 ROOT-TO-IDL																
DS210400	DG	support Root-to-IDL	1,442*	01JUN00A	31MAR06	0	A	25								support R
4.1.D.2.6 MERIT IMPROVEMENTS																
DS210410	DW	make into Gaudi algorithm	10	14FEB01A	27FEB01A		E	100								
DS210420	DL	run from Gaudi ntuples	5	28FEB01A	06MAR01A		E	100								
4.1.D.2.7 NEW GEOMETRY MECHANISM																
DS210430	FF	study options for associating detector elemen	10	27NOV00A	08DEC00A		E	100								
DS210440	DL	design initial xml for one tower	6	08JAN01A	12JAN01A		E	100								
DS210490	DL	add 'choice' element to allow parallel descri	2	22JAN01A	23JAN01A		E	100								
DS210500	DL	add versioning scheme	2	22JAN01A	23JAN01A		E	100								
DS210450	DL	arithmetic evaluation	3	22JAN01A	24JAN01A		E	100								
DS210460	DL	substitution utilities	3	25JAN01A	29JAN01A		E	100								
DS210510	DL	Volume ID scheme	5	29JAN01A	02FEB01A		E	100								
DS210470	DL	design preprocessed ascii file	5	30JAN01A	05FEB01A		E	100								
DS210610	DG	update and verify ACD geometry	15	01FEB01A	21FEB01A		E	100								
DS210630	DL	update and verify TKR geometry	31	01FEB01A	19MAR01A		E	100								
DS210640	DL	update non-subsystem elements	35	01FEB01A	21MAR01A		E	100								
DS210520	DL	use ID dictionary	5	05FEB01A	09FEB01A		E	100								
DS210480	DL	output of preprocess file	3	06FEB01A	08FEB01A		E	100								
DS210530	FI	class hierarchy design	2	15FEB01A	16FEB01A		E	100								
DS210540	FI	interfaces (.h) specification	2	20FEB01A	20FEB01A		E	100								
DS210550	FI	high end issues (DOM or SAX?)	2	21FEB01A	22FEB01A		E	100								
DS210670	DL	Do Data Entry for ACD Geometry	10	22FEB01A	07MAR01A		E	100								
DS210560	FI	interface to Xerces	1	26FEB01A	26FEB01A		E	100								
DS210650	DL	Do Data Entry for Tracker Geometry	10	26FEB01A	21MAR01A		E	100								
DS210570	FI	constants to elements implementation	1	01MAR01A	01MAR01A		E	100								
DS210580	FI	simple volumes (no stacks or replication)	3	05MAR01A	07MAR01A		E	100								
DS210620	DN	Update & verify CAL geometry	51	05MAR01A	14MAY01A			100								
DS210590	FI	complex volumes	2	08MAR01A	09MAR01A		E	100								
DS210600	FI	high end issues (eg ROGeometry)	2	12MAR01A	13MAR01A		E	100								
DS210660	DL	Do Data Entry for Calorimeter Geometry	0	17MAY01A	31MAY01A		E	100								
DS210680	DL	Do Data Entry for NAD Geometry	10	01AUG01A	15AUG01A		E	100								
DS210690	DL	Data Entry for All Subsystems Complete	0		15AUG01A		E	100								
DS210700	DL	ongoing support	1,110*	01OCT01A	31MAR06	0	A	2								ongoing s
4.1.D.2.8 PSF/EFFECTIVE AREA MONITORING& OPTIMIZATION																
DS210710	DG	re-evaluate AO performance for PDR	127*	01JUN01A	30NOV01	0	A	84								
DS210720	DL	ongoing support	1,067*	03DEC01	31MAR06	0	A	0								ongoing s
DS212730		Annual Evaluation & Tracking of LAT Performance	0		23DEC02*	805		0								◇ Annual Evaluation & Tracking of LAT Performanc
DS212740		Annual Evaluation & Tracking of LAT Performance	0		29AUG03*	637		0								◇ Annual Evaluation & Tracking of LAT Per
DS212750		Annual Evaluation & Tracking of LAT Performance	0		31AUG04*	389		0								◇ Annual Evaluation & Trackin
DS212760		Annual Evaluation & Tracking of LAT Performance	0		31AUG05*	141		0								Annual Evaluation & Tracking of LAT Performance◇
4.1.D.2.9 CODE & RELEASE MANAGEMENT																
4.1.D.2.9.1 RELEASE MANAGER																
DS210740	DL	Prototype Release Manager	15	02JUL01A	23JUL01A		E	100								
DS210750	DL	set requirements for Releases, including test	3	14NOV01*	16NOV01	0	E	0								
DS210760	DL	identify database for results	10	19NOV01	04DEC01	0	E	0								
DS210770	DL	Full manager: bookeeping & verification	60	05DEC01	11MAR02	0	E	0								
DS212680		Prototype Release Manager in Place	0		11MAR02	1,005		0								◇ Prototype Release Manager in Place
DS210780	DL	ongoing support	1,005*	12MAR02	31MAR06	0	A	0								ongoing s
4.1.D.2.9.2 RELEASE NICETIES																
DS210790	DL	web tool tracking latest package versions	4	13OCT00A	19OCT00A		E	100								
DS210800	DL	Develop Compile server	89*	17SEP01A	31JAN02	1,031	E	37								
DS210810	DL	create bug tracking system	40	19NOV01*	25JAN02	1,035	E	0								
4.1.D.2.A CONTINUING TOOLS DEVELOPMENT																
DS210820	DG	continuing tools development	1,484*	03APR00A	31MAR06	0	A	27								continuing
4.1.D.2.B ONGOING USER SUPPORT																
DS210830	DG	Ongoing User Support for Analysis Tools	863	01OCT02*	31MAR06	0	A	0								Ongoing U
4.1.D.3 ENGINEERING MODELS																
4.1.D.3.1 TEST BEAM 99 SUPPORT																
DS210850	DW	Simplify ROOTWriter to write IRF only	4	09OCT00A	12OCT00A		E	100								
DS210870	DL	make package of tbrecon and move to SLAC	3	13OCT00A	17OCT00A		E	100								
DS210860	DL	generate test suite for ROOTWriter	5	19OCT00A	27OCT00A		E	100								
DS210840	DW	tbsim	10	30OCT00A	10NOV00A		E	100								
4.1.D.3.2 BALLOON FLIGHT SUPPORT																
DS210880	FJ	G4 simulations	35	25SEP00A	10NOV00A		E	100								
DS210890	FJ	package G4 code in CMT	5	13NOV00A	17NOV00A		E	100								
DS210900	FJ	put G4 code into cvs	3	12DEC00A	14DEC00A		E	100								
DS210920	FJ	TKR	10	22JAN01A	02FEB01A		E	100								
DS210910	FJ	compare to TB99	15	26JAN01A	15FEB01A		E	100								
DS210990	DG	restore raw format code to RootWriter	3	29JAN01A	31JAN01A		E	100								
DS210930	FJ	CAL	5	05FEB01A	09FEB01A		E	100								
DS210940	FJ	ACD	3	12FEB01A	14FEB01A		E	100								
DS210960	DL	Subsystems run through tb_recon	0		15FEB01A			100								◆ Subsystems run through tb_recon

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
DS210970	DL	Subsystems run with correct geometries	0		27MAR01A			100							
DS211000	DG	update TB root classes	5	29MAR01A	04APR01A		E	100							
DS211010	DG	update RootWriter for revised classes	3	05APR01A	09APR01A		E	100							
DS211050	DL	disk space in place	5	09APR01A	13APR01A		E	100							
DS211020	DG	converter from output format to Root format	10	10APR01A	23APR01A		E	100							
DS211030	DL	produce raw balloon file	0		24APR01A			100							
DS211040	DL	run flight data through recon	0		25APR01A			100							
DS210980	DL	Define instrument output format	0		04MAY01A			100							
DS210950	DL	MC Truth info	10	07MAY01A	18MAY01A		E	100							
DS211070	DG	balloon files	0		04AUG01A			100							
DS211060	DL	Analyze Balloon Data	79*	07AUG01A	28NOV01	1,069	E	77							
4.1.D.3.3 4-MODULE TEST SUPPORT															
DS211080	DL	Support 4-Module test	247	02SEP03*	30AUG04	390	A	0							
4.1.D.4 SCIENCE SOFTWARE															
4.1.D.4.1 UTILITIES															
DS211110	DH	Create GRB/AGN Simulator - Design	30	10DEC01*	30JAN02	86	E	0							
DS211120	DH	Create GRB/AGN Simulator - Implement	30	31JAN02	14MAR02	86	E	0							
DS211090	DH	Create GRB/AGN Simulator - Test	60	15MAR02	07JUN02	86	E	0							
DS211210	DL	Create Exposure Map Simulator - Design	30	28MAY02	09JUL02	831	E	0							
DS211100	DL	Create High Level Simulator (Post Lev 1)-Desi	30	10JUN02	22JUL02	86	E	0							
DS211220	DL	Create Exposure Map Simulator - Implement	30	10JUL02	20AUG02	831	E	0							
DS211130	DL	Create High Level Simulator - Implement	30	23JUL02	03SEP02	86	E	0							
DS211230	DL	Create Exposure Map Simulator - Test	60	21AUG02	13NOV02	831	E	0							
DS211140	DH	Create High Level Simulator -Test	60	09SEP02	03DEC02	83	E	0							
DS211150	DH	Create Maps - Design	30	04DEC02	24JAN03	83	E	0							
DS211190	DH	Create Maps - Implement	30	27JAN03	10MAR03	83	E	0							
DS211200	DH	Create Maps - Test	60	11MAR03	03JUN03	83	E	0							
DS211160	DH	Create Map & Image Displays - Design	30	07JUN04	19JUL04	24	E	0							
DS211170	DH	Create Map & Image Displays - Implement	30	20JUL04	30AUG04	24	E	0							
DS211180	DH	Create map and image displays - Test	60	31AUG04	23NOV04	24	E	0							
4.1.D.4.2 ANALYSIS SOFTWARE															
DS211310	DL	Create Pulsar Phase Assignment - Design	60	10DEC01*	14MAR02	822	E	0							
DS211420	DL	Create Pulsar Phase Assignment - Implement	60	15MAR02	07JUN02	822	E	0							
DS211250	DL	Create Pt Source Detection Algorithm - Design	30	10JUN02	22JUL02	209	E	0							
DS211300	DH	Create Likelihood Analysis - Design	63	10JUN02	06SEP02	24	E	0							
DS211430	DL	Create Pulsar Phase Assignment - Test	120	10JUN02	28NOV02	822	E	0							
DS211400	DL	Create Pt Source Detection Algorithm -Impleme	30	23JUL02	03SEP02	209	E	0							
DS211410	DL	Create Pt Source Detection Algorithm - Test	60	04SEP02	28NOV02	209	E	0							
DS211330	DH	Create Likelihood Analysis - Implementation	63	09SEP02	06DEC02	24	E	0							
DS211270	DL	Create GRB Detection (Trigger) - Design	30	29NOV02	21JAN03	702	E	0							
DS211260	DL	Create Pt Src Transient Detection - Design	60	29NOV02	05MAR03	582	E	0							
DS211280	DL	Create Point Source ID - Design	60	29NOV02	05MAR03	582	E	0							
DS211340	DH	Create Likelihood Analysis - Test (HEPL)	119	09DEC02	05JUN03	24	E	0							
DS211345	DL	Create Likelihood Analysis - Test (SLAC)	119	09DEC02	05JUN03	24	E	0							
DS211440	DL	Create GRB Detection (Trigger) - Implement	30	22JAN03	05MAR03	702	E	0							
DS211450	DL	Create GRB Detection (Trigger) - Test	60	06MAR03	29MAY03	702	E	0							
DS211460	DL	Create Pt Src Transient Detection - Implement	60	06MAR03	29MAY03	582	E	0							
DS211480	DL	Create Point Source ID - Implement	60	06MAR03	29MAY03	582	E	0							
DS211470	DL	Create Pt Src Transient Detection - Test	120	30MAY03	17NOV03	582	E	0							
DS211490	DL	Create Point Source ID - Test	120	30MAY03	17NOV03	582	E	0							
DS211290	DL	Create Point Source Spectra - Design	60	04JUN03	27AUG03	86	E	0							
DS211240	DH	Create Interstellar Emission Model-Design (HEPL)	63	06JUN03	04SEP03	24	E	0							
DS211245	DL	Create Interstellar Emission Model-Design (SLAC)	63	06JUN03	04SEP03	24	E	0							
DS211500	DL	Create Point Source Spectra - Implement (SLAC)	60	28AUG03	20NOV03	86	E	0							
DS211350	DH	Create Interstellar Emission Mod-Implem't (HEPL)	63	05SEP03	04DEC03	24	E	0							
DS211355	DL	Create Interstellar Emission Mod- Implem't(SLAC)	63	05SEP03	04DEC03	24	E	0							
DS211870	DL	Support Development of Analysis S/W FY'04 (SLAC)	248	01OCT03*	30SEP04	0	A	0							
DS212480	FF	Support Development of Analysis S/W FY'04 (Fr)	248	01OCT03	30SEP04	368	A	0							
DS211360	DH	Create Interstellar Emission Model - Test	121	05DEC03	04JUN04	24	E	0							
DS900000	DH	Create Point Source Spectra - Implement (HEPL)	60	09JAN04	05APR04	0	E	0							
DS212470	DN	Support Development of Analysis S/W FY'04 (NRL)	152	27FEB04	30SEP04	368	A	0							
DS211510	DH	Create Point Source Spectra - Test	120	06APR04	23SEP04	0	E	0							
DS900100	DH	HEPL Support	243	07JUN04	27MAY05	207	A	0							
DS212490	DL	Support Development of Analysis S/W FY'05 (SLAC)	248	01OCT04	30SEP05	0	A	0							
DS212520	DN	Support Development of Analysis S/W FY'05 (NRL)	248	01OCT04	30SEP05	120	A	0							
DS212530	FF	Support Development of Analysis S/W FY'05 (Fr)	248	01OCT04	30SEP05	120	A	0							
DS211320	DH	Import EGRET Data - Design	30	31MAY05	12JUL05	24	E	0							
DS211370	DH	Import EGRET Data - Implement	30	13JUL05	23AUG05	24	E	0							
DS211380	DH	Import EGRET Data - Test	63	24AUG05	21NOV05	24	E	0							
DS212500	DN	Support Development of Analysis S/W FY'06 (NRL)	120	03OCT05	31MAR06	0	A	0							
DS212510	FF	Support Development of Analysis S/W FY'06 (Fr)	120	03OCT05	31MAR06	0	A	0							
DS212540	DL	Support Development of Analysis S/W FY'06 (SLAC)	120	03OCT05	31MAR06	0	A	0							
DS212690		Science Tools in Place	0		21NOV05	84		0							
DS211390	DH	On-going Support - Analysis Tools (HEPL)	60	22NOV05	27FEB06	24	A	0							
4.1.D.4.3 ANALYSIS DATABASES															
DS211550	DL	Create Point Source Database - Design	30	10DEC01*	30JAN02	24	E	0							
DS211590	DH	Create Event Database - Design	30	10DEC01*	30JAN02	206	E	0							
DS211600	DH	Create Event Database - Implement	30	31JAN02	14MAR02	206	E	0							
DS211610	DL	Create Point Source Database - Implement	30	31JAN02	14MAR02	24	E	0							
DS211540	DL	Create Exposure Database - Design	15	04MAR02*	22MAR02	215	E	0							
DS211520	DH	Create Event Database - Test	60	15MAR02	07JUN02	206	E	0							
DS211620	DL	Create Point Source Database - Test	60	15MAR02	07JUN02	24	E	0							
DS211630	DL	Create Exposure Database - Implement	15	25MAR02	12APR02	215	E	0							
DS211640	DL	Create Exposure Database - Test	30	15APR02	24MAY02	215	E	0							
DS211530	DH	Create Summary Database	20	09DEC02	14JAN03	796	E	0							
DS212700		Photon Database Technology Implemented	0		14JAN03	796		0							
DS211560	DH	Create Transient alerts/GRBs - Design	30	24NOV04	14JAN05	24	E	0							
DS211570	DH	Create Transient alerts/GRBs - Implement	30	18JAN05	01MAR05	24	E	0							
DS211580	DH	Create Transient alerts/GRBs - Test	63	02MAR05	27MAY05	24	E	0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01	FY02	FY03	FY04	FY05	FY06	FY07
4.1.D.5 DATA PROCESSING FACILITY															
4.1.D.5.1 PROTOTYPE DATA MANAGER															
DS211660	DL	Create scripts for accessing Oracle	5	15MAR01A	21MAR01A		E	100							
DS211650	DL	Create database layout for datasets	47	15MAR01A	18MAY01A		E	100							
DS211670	DL	Create web interface to database	5	26NOV01*	30NOV01	189	E	0							
DS211680	DL	Create wrapper to run jobs and update databas	15	03DEC01	21DEC01	189	E	0							
4.1.D.5.2 AUTOMATED SERVER															
DS211690	DH	Create functional spec of server	10	01OCT02*	14OCT02	0	E	0							
DS211700	DH	Write definition of processing state database	10	15OCT02	28OCT02	0	E	0							
DS211720	DL	Create web monitoring tool for server	60	15OCT02	17JAN03	240	E	0							
DS211710	DH	Create Code Server - Design	60	29OCT02	03FEB03	0	E	0							
DS211750	DH	Create Code Server - Implement	60	04FEB03	29APR03	0	E	0							
DS211760	DH	Create Code Server - Test	107	30APR03	30SEP03	0	E	0							
DS211740	DH	Interface Server to Reconstruction	63	01OCT03	08JAN04	0	E	0							
DS212810		Production Version of Data Processing Facility	0		08JAN04	553		0							
DS211730	DL	Ongoing Support of ? (SLAC)	553*	09JAN04	31MAR06	0	A	0							
DS900200	DH	Ongoing Support of (HEPL)	0		31MAR06	0	A	0							
4.1.D.5.3 INSTRUMENT DIAGNOSTICS															
DS211770	DH	Obtain Requirements from Subsystems	65	24SEP04	04JAN05	0	E	0							
DS211780	DH	Create Initial Diagnostics	127	05JAN05	06JUL05	0	A	0							
DS211790	DH	Create Web Tools For Diagnostics	121	07JUL05	04JAN06	0	A	0							
DS212720		Data Processing Facility Completed	0		04JAN06	60		0							
DS211800	DH	Refine Diagnostics	60*	05JAN06	31MAR06	0	A	0							
4.1.D.6 CALIBRATION															
4.1.D.6.1 TOOLS FOR ACCESSING CONSTANTS															
DS211810	DL	select mechanism for holding constants	20	07JAN02*	04FEB02	989	E	0							
DS211820	DL	create converters to access constants	40	05FEB02*	02APR02	989	E	0							
4.1.D.6.2 ACD CALIBRATION															
DS211830	DG	create ACD pulse height histograms	120	02JAN02*	21JUN02	0	E	0							
DS212770		AV: ACD Pulse Height Histograms for I & T	0		21JUN02	0		0							
DS212550	DG	Ongoing Support	932	24JUN02	31MAR06*	0	A	0							
4.1.D.6.3 CALORIMETER CALIBRATION															
DS212320	DN	Determine Balloon Flight Optical Gains	39	13AUG01A	28SEP01A			100							
DS211840	DN	Create Balloon Flt Elect. Calibrat'n Tables FY01	29	20AUG01A	28SEP01A			100							
DS211845	DN	Create Balloon Flt Elect. Calibrat'n Tables FY02	43*	01OCT01A	30NOV01	1,067	E	54							
DS212340	DN	Define Cosmic Ray Calibration Requirements	19	07JAN02*	01FEB02	0	E	0							
DS212350	DN	Do Calibration Prototype Coding (NRL)	72	04FEB02	15MAY02	0	E	0							
DS212355	FF	Do Calibration Prototype Coding (Fr)	72	04FEB02	15MAY02	100	E	0							
DS212780		AV: Calibration Prototype Coding for I & T	0		15MAY02	0		0							
DS212360	DN	Revise Calibration Scheme (NRL)	54	16MAY02	01AUG02	100	E	0							
DS212365	FF	Revise Calibration Scheme (Fr)	54	16MAY02	01AUG02	100	E	0							
DS211850	DN	Create Calorimeter Cosmic Ray Selector (NRL)	108	03JAN03	06JUN03	0	A	0							
DS211855	FF	Create Calorimeter Cosmic Ray Selector (Fr)	120	03JAN03	24JUN03	0	A	0							
DS211860	DN	Determine Calorimeter Energy Scale (NRL)	108	09JUN03	07NOV03	12	A	0							
DS211865	FF	Determine Calorimeter Energy Scale (Fr)	240	25JUN03	14JUN04	0	A	0							
DS212330	DN	Revise Electronic Calibration Algorithm	109	03NOV03*	16APR04	484	A	0							
DS212370	DN	Support Calorimeter Calibration & DataBase (NRL)	464	10NOV03	26SEP05	124	A	0							
DS212375	FF	Support Calorimeter Calibration & DataBase (Fr)	444*	15JUN04	31MAR06	0	A	0							
4.1.D.6.4 TRACKER CALIBRATION															
DS211900	DL	create TKR dead/noisy strips lists	120	02JAN02*	21JUN02	0	A	0							
DS211880	FI	create TKR tower & tray alignment	240	01FEB02*	22JAN03	0	A	0							
DS212790		AV: Tracker Dead/Noisy Strips for I & T	0		21JUN02	0		0							
DS212800		AV: Tracker Tower & Tray Alignment	0		22JAN03	0		0							
DS211890	DL	create TKR alignment with optical axis	120	23JAN03	14JUL03	0	A	0							
4.1.D.6.5 HIGH LEVEL CALIBRATIONS															
DS211910	DL	create database	120	10DEC01*	07JUN02	0	A	0							
DS211925	DN	generate instrument response functions (NRL)	100	10JUN02	29OCT02	0	A	0							
DS211935	FF	generate instrument response functions (Fr)	100	10JUN02	29OCT02	0	A	0							
DS211920	DL	generate instrument response functions (SLAC)	240	10JUN02	29MAY03	0	A	0							
DS212460	DN	Ongoing Support for Calorimeter (NRL)	842	30OCT02	31MAR06	0	A	0							
DS212465	FF	Ongoing Support for Calorimeter (Fr)	842	30OCT02	31MAR06	0	A	0							
DS212710		Completed Instrument Response function	0		29MAY03	702		0							
DS211930	DL	Ongoing Support (SLAC)	702	30MAY03	31MAR06	0	A	0							
DS212670	DL	Ongoing Support for Tracker Calibration (SLAC)	671	15JUL03	31MAR06	0	A	0							
4.1.D.7 MANAGEMENT															
4.1.D.7.1 SCIENCE ANALYSIS SOFTWARE MANAGEMENT															
DS212000	DH	HEPL FY 2000 Support	127	03APR00A	29SEP00A		A	100							
DS212440	DG	GSFC Contractor MPS FY '00	127	03APR00A	29SEP00A			100							
DS211960	DL	Science Analysis Software Subsystem Management	1,484*	03APR00A	31MAR06	0	A	27							
DS212310	DW	Oversee Code Architecture	1,484*	03APR00A	31MAR06	0	A	27							
DS210730	DH	transfer cvs repo to SLAC (was 4.1.D.2.9.1)	9	02OCT00A	13OCT00A		E	100							
DS212010	DH	HEPL FY 2001 Support	237	02OCT00A	28SEP01A		A	100							
DS212380	DG	GSFC Contractor MPS plus 4% Lab Tax: FY '01	247	02OCT00A	28SEP01A		A	100							
DS211940	DL	hire SciProg at SLAC	10	09OCT00A	20OCT00A		E	100							
DS211950	DL	Programmer starts	0	01FEB01A				100							
DS211970	DL	ready for SAS PDR	0		17AUG01A			100							
DS212190	DG	GSFC: Domestic Travel FY '02	247*	01OCT01A	30SEP02	0	A	9							
DS212195	DG	GSFC: Foreign Travel FY '02	247*	01OCT01A	30SEP02	0	A	9							
DS212290	DN	NRL: Domestic Travel FY '02	247*	01OCT01A	30SEP02	0	A	9							
DS212300	DH	HEPL: Travel FY '02	247*	01OCT01A	30SEP02	0	A	9							
DS212390	DG	GSFC Contractor MPS plus 4% Lab Tax: FY '02	247*	01OCT01A	30SEP02	0	A	9							
DS213000	DH	HEPL: M & S FY '02	247*	01OCT01A	30SEP02	863	A	9							
DS2130020	DH	HEPL: M & S FY '04	248	01NOV01	01NOV02	839	A	0							
DS2130030	DH	HEPL: M & S FY '05	248	01NOV01	01NOV02	839	A	0							
DS2130010	DH	HEPL: M & S FY '03	471*	01NOV01	30SEP03	616	A	0							
DS2130040	DH	HEPL: M & S FY '06	1,087*	01NOV01	31MAR06	0	A	0							
DS211980	DL	ready for SAS CDR	0		31JUL02*	24		0							
DS212400	DG	GSFC Contractor MPS plus 4% Lab Tax: FY '03	247*	01OCT02	30SEP03	0	A	0							
DS212450	DG	GSFC: Domestic Travel FY '03	247*	01OCT02	30SEP03	0	A	0							

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year							
									FY01	FY02	FY03	FY04	FY05	FY06	FY07	
DS212455	DG	GSFC: Foreign Travel FY '03	247*	01OCT02	30SEP03	0	A	0								
DS212590	DH	HEPL: Travel FY '03	247*	01OCT02	30SEP03	0	A	0								
DS212630	DN	NRL: Domestic Travel FY '03	247*	01OCT02	30SEP03	0	A	0								
DS212410	DG	GSFC Contractor MPS plus 4% Lab Tax: FY '04	248	01OCT03	30SEP04	0	A	0								
DS212560	DG	GSFC: Domestic Travel FY '04	248	01OCT03	30SEP04	0	A	0								
DS212565	DG	GSFC: Foreign Travel FY '04	248	01OCT03	30SEP04	0	A	0								
DS212600	DH	HEPL: Travel FY '04	248	01OCT03	30SEP04	0	A	0								
DS212640	DN	NRL: Domestic Travel FY '04	248	01OCT03	30SEP04	0	A	0								
DS212420	DG	GSFC Contractor MPS plus 4% Lab Tax: FY '05	248	01OCT04	30SEP05	0	A	0								
DS212570	DG	GSFC: Domestic Travel FY '05	248	01OCT04	30SEP05	0	A	0								
DS212575	DG	GSFC: Foreign Travel FY '05	248	01OCT04	30SEP05	0	A	0								
DS212610	DH	HEPL: Travel FY '05	248	01OCT04	30SEP05	0	A	0								
DS212650	DN	NRL: Domestic Travel FY '05	248	01OCT04	30SEP05	0	A	0								
DS212430	DG	GSFC Contractor MPS plus 4% Lab Tax: FY '06	120*	03OCT05	31MAR06	0	A	0								
DS212580	DG	GSFC: Domestic Travel FY '06	120*	03OCT05	31MAR06	0	A	0								
DS212585	DG	GSFC: ForeignTravel FY '06	120*	03OCT05	31MAR06	0	A	0								
DS212620	DH	HEPL: Travel FY '06	120*	03OCT05	31MAR06	0	A	0								
DS212660	DN	NRL: Domestic Travel FY '06	120*	03OCT05	31MAR06	0	A	0								
DS211990	DL	Final End-to-End test	0		04JAN06	60		0								
4.1.D.7.2 SCIENCE ANALYSIS SOFTWARE REQUIREMENTS																
4.1.D.7.2.1 LEVEL 3 REQUIREMENTS																
DS212050	DL	hold LAT review	0		20APR00A			100								
DS212020	DL	draft Level 3 requirements	5	29MAR01A	04APR01A			100								
DS212030	DL	internal review of reqs	0		05APR01A			100								
DS212040	DL	iterate reqs	9	06APR01A	18APR01A			100								
4.1.D.7.2.2 LEVEL 4 REQUIREMENTS																
DS212060	DL	define structure of requirements documents	7	15FEB01A	23FEB01A			100								
DS212070	DL	write Geometry D.1 draft reqs	10	26FEB01A	09MAR01A			100								
DS212080	DW	write Sim/Recon D.2 draft reqs	10	26FEB01A	09MAR01A			100								
DS212090	FJ	write Sources D.3 draft reqs	10	26FEB01A	09MAR01A			100								
DS212100	DG	write Trigger Sim/Analysis D.4 draft reqs	10	26FEB01A	09MAR01A			100								
DS212110	DG	write Background Rejection D.5 draft reqs	10	26FEB01A	09MAR01A			100								
DS212120	DG	write Performance Tuning & Monitor D.6 draft	10	26FEB01A	09MAR01A			100								
DS212130	DG	write Analysis Tools D.8 draft reqs	10	26FEB01A	09MAR01A			100								
DS212140	DG	write Science Tools D.11 draft reqs	10	26FEB01A	09MAR01A			100								
DS212150	DL	write DPF D.12 draft reqs	10	26FEB01A	09MAR01A			100								
DS212160	DL	write Infrastructure D.13 draft reqs	10	26FEB01A	09MAR01A			100								
DS212170	DL	write Calibrations D.14 draft reqs	10	26FEB01A	09MAR01A			100								
DS212180	DL	iterate reqs	5	07AUG01A	13AUG01A			100								
4.1.D.7.3 PDR SUPPORT																
DS212210	DL	initial look for problems - hand scan sample	10	29MAY01A	11JUN01A			100								
DS212200	DL	perform First code release	0		01JUN01A			100								
DS212220	DL	examine the 1000 events (signal + bkg) with p	5	12JUN01A	18JUN01A			100								
DS212230	DL	generate 5x10^5 bkg, 10k photon events	2	19JUN01A	21JUN01A			100								
DS212240	DL	perform background analysis	15	13AUG01A	17AUG01A			100								
DS212250	DL	generate 50x10^6 bkg, 50k photon events	5	20AUG01A	24AUG01A			100								
DS212260	DL	Repeat analysis	63*	10SEP01A	07DEC01	1,062	E	60								
DS212270	DL	LAT PDR - 1 month	0		07DEC01*	1,062		0								
4.1.D.7.4 MOCK DATA CHALLENGE 1																
DS212280	DL	Mock Data Challenge I	0		30SEP03	616		0								

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year							
									FY01	FY02	FY03	FY04	FY05	FY06	FY07	
4.1.E SUBORBITAL FLIGHT TEST																
4.1.E.1 SCIENCE																
ESE1000000	DH	HEPL	241*	03OCT00A	21SEP01A		A	100	█	HEPL						
ESE1000010	DU	UCSC	241*	03OCT00A	21SEP01A		A	100	█	UCSC						
ESE1ACT000	DH	HEPL Overrun	241	04SEP01A	21SEP01A		A	100	█	HEPL Overrun						
4.1.E.1.1 PRE BALLOON FLIGHT PLANNING																
ES00000000		Start Balloon Program	0		02OCT00A			100	▶	Start Balloon Program						
ES00000010		Balloon Flight Review	23	03OCT00A	01NOV00A			100	█	Balloon Flight Review						
ES00000020		Baseline Balloon Flight Plan	0		02NOV00A			100	◆	Baseline Balloon Flight Plan						
4.1.E.1.2 POST BALLOON FLIGHT DATA ANALYSIS																
ES00002890		Process Data	20	06AUG01A	28AUG01A			100	█	Process Data						
ES00002920		NRL Support	34*	06AUG01A	21SEP01A			100	█	NRL Support						
ES00002930		UCSC Support	34*	06AUG01A	21SEP01A			100	█	UCSC Support						
ES00002940		GSFC Support	34*	06AUG01A	21SEP01A			100	█	GSFC Support						
ES00002950		HEPL Support	34*	06AUG01A	21SEP01A			100	█	HEPL Support						
ES00002960		JGC Analysts Support	34*	06AUG01A	21SEP01A			100	█	JGC Analysts Support						
ES00002900		Analysis	17	29AUG01A	21SEP01A			100	█	Analysis						
ES00002910		Deliver Preliminary Report	0		21SEP01A			100	◆	Deliver Preliminary Report						
4.1.E.2 TRACKER																
4.1.E.2.1 REFURBISH TRACKER																
ES00000240		Refurbish BTEM units	26	03OCT00A	07NOV00A			100	█	Refurbish BTEM units						
ESE2U00000	DU	UCSC	67*	03OCT00A	16JAN01A		E	100	█	UCSC						
ES00000250		Determine BFEM Tracker configuration	0		07NOV00A			100	◆	Determine BFEM Tracker configuration						
ES00000260		Assembly BFEM Tracker	39	08NOV00A	11JAN01A			100	█	Assembly BFEM Tracker						
ES00000270		TKR Pre-ship Review	0		11JAN01A			100	◆	TKR Pre-ship Review						
ES00000280		Ship to SLAC	2	12JAN01A	16JAN01A			100	█	Ship to SLAC						
4.1.E.3 CALORIMETER																
ESE3N00000	DN	NRL	67*	03OCT00A	16JAN01A		E	100	█	NRL						
4.1.E.3.1 CRYSTAL-PIN BOND																
ES00000520		Disassemble BTEM Stack	3	03OCT00A	05OCT00A			100	█	Disassemble BTEM Stack						
ES00000500		Performance Investigations	8	03OCT00A	12OCT00A			100	█	Performance Investigations						
ES00000510		Long Lead Procurements	25	03OCT00A	06NOV00A			100	█	Long Lead Procurements						
ES00000530		Test Csl Detectors	5	06OCT00A	12OCT00A			100	█	Test Csl Detectors						
ES00000540		Rebond PIN/Csl	9	07NOV00A	17NOV00A			100	█	Rebond PIN/Csl						
ES00000550		ReWrap	9	20NOV00A	04DEC00A			100	█	ReWrap						
4.1.E.3.2 MECHANICAL																
ES00000570		Design new support structure	9	03OCT00A	13OCT00A			100	█	Design new support structure						
ES00000580		Fabricate	30	16OCT00A	28NOV00A			100	█	Fabricate						
4.1.E.3.3 ASSEMBLY & TEST																
ES00000600		Reassemble stack	2	05DEC00A	06DEC00A			100	█	Reassemble stack						
ES00000610		Remount electronics	5	07DEC00A	13DEC00A			100	█	Remount electronics						
ES00000620		Functional Test	4	14DEC00A	19DEC00A			100	█	Functional Test						
ES00000630		Calibration - pulsers	5	20DEC00A	03JAN01A			100	█	Calibration - pulsers						
ES00000640		Calibration Muons	5	04JAN01A	10JAN01A			100	█	Calibration Muons						
ES00000650		CAL Pre-ship Review	0		10JAN01A			100	◆	CAL Pre-ship Review						
ES00000660		Ship to SLAC	3	11JAN01A	16JAN01A			100	█	Ship to SLAC						
4.1.E.4 ANTICOINCIDENCE DETECTOR																
4.1.E.4.1 REFURBISH BTEM ACD																
ES00000890		Complete electronics modifications	6	03OCT00A	10OCT00A			100	█	Complete electronics modifications						
ESE41G0000	DG	GSFC	68*	03OCT00A	17JAN01A		E	100	█	GSFC						
ES00000900		Characterize performance	24	11OCT00A	13NOV00A			100	█	Characterize performance						
ES00000920		Structure Rework	15	14NOV00A	06DEC00A			100	█	Structure Rework						
ES00000910		Develop performance test	20	14NOV00A	13DEC00A			100	█	Develop performance test						
ES00000950		ACD assembly	6	07DEC00A	14DEC00A			100	█	ACD assembly						
ES41000000		Functional Test	5	15DEC00A	21DEC00A			100	█	Functional Test						
ES00000960		Pre-ship performance test	3	09JAN01A	11JAN01A			100	█	Pre-ship performance test						
ES00000970		ACD Pre-ship Review	0		11JAN01A			100	◆	ACD Pre-ship Review						
ES00000980		Ship to SLAC	3	12JAN01A	17JAN01A			100	█	Ship to SLAC						
ES00000930		Receive new scintillators	0		16APR01A			100	◆	Receive new scintillators						
ES00000940		New tile assembly	4	17APR01A	20APR01A			100	█	New tile assembly						
4.1.E.5 EXTERNAL GAMMA-RAY TARGET (XGT)																
4.1.E.5.1 XGT FABRICATION																
ES00001660		XGT Procurements	24	02OCT00A	02NOV00A			100	█	XGT Procurements						
ES00001670		XGT Design	14	03NOV00A	22NOV00A			100	█	XGT Design						
ES00001680		XGT Development	15	27NOV00A	15DEC00A			100	█	XGT Development						
ES00001710		XGT Electronics Integration	30	18DEC00A	06FEB01A			100	█	XGT Electronics Integration						
ES51000000		ACD Electronics I/F Test	2	16JAN01A	17JAN01A			100	█	ACD Electronics I/F Test						
4.1.E.5.2 XGT INTEGRATION																
ES00001690		XGT Delivery to SLAC	2	07FEB01A	08FEB01A			100	█	XGT Delivery to SLAC						
ES00001720		XGT Mechanical Integration	10	09FEB01A	23FEB01A			100	█	XGT Mechanical Integration						
ES00001730		XGT Development Complete	0		23FEB01A			100	◆	XGT Development Complete						
4.1.E.6 ELECTRONICS HARDWARE																
ESE6H00000	DH	HEPL	79*	02OCT00A	31JAN01A		E	100	█	HEPL						
4.1.E.6.1 TEM CARDS																
ES61000010	DH	Upgrade Tracker TEM and Test	19	10APR00A	29SEP00A		E	100	█	Upgrade Tracker TEM and Test						
ES00001200		Document I/F Test Results	19	02OCT00A	26OCT00A			100	█	Document I/F Test Results						
ES00001210		Refurb Spare CAL TEM	5	27OCT00A	02NOV00A			100	█	Refurb Spare CAL TEM						
ES00001220		Refurb Spare ACD TEM	5	03NOV00A	09NOV00A			100	█	Refurb Spare ACD TEM						
ES61000000		Upgrade VME Adress Decoder	22	10NOV00A	13DEC00A			100	█	Upgrade VME Adress Decoder						
ES61000100		Upgrade VME Interrupt Handler	10	14DEC00A	04JAN01A			100	█	Upgrade VME Interrupt Handler						
ES00001240		Implement TKR Rate Counters	3	05JAN01A	09JAN01A			100	█	Implement TKR Rate Counters						
ES00001230		Implement ACD Rate Counters	3	10JAN01A	12JAN01A			100	█	Implement ACD Rate Counters						
ES61000200		Develop Live Time Counter (LTC)	6	16JAN01A	23JAN01A			100	█	Develop Live Time Counter (LTC)						
ES61000300		Rework Spare CAL TEMs	3	24JAN01A	26JAN01A			100	█	Rework Spare CAL TEMs						
ES61000400		Rework Spare ACD TEM3	3	29JAN01A	31JAN01A			100	█	Rework Spare ACD TEM3						
4.1.E.6.2 POWER SYSTEM																
ES00001260		Power System Procurements	30	02OCT00A	10NOV00A			100	█	Power System Procurements						
ES00001270		TKR Power Supply	25	13NOV00A	19DEC00A			100	█	TKR Power Supply						
ES00001280		CAL Power Supply	30	13NOV00A	03JAN01A			100	█	CAL Power Supply						

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	FY01 FY02 FY03 FY04 FY05 FY06 FY07								
ES00001290		ACD Power Supply	35	13NOV00A	10JAN01A			100	▲	▲	▲						
ES00001300		Power Housekeeping	38	13NOV00A	16JAN01A			100	▲	▲	▲						
ES62000000		XGT Power System	38	13NOV00A	16JAN01A			100	▲	▲	▲						
4.1.E.6.3 CABLE HARNESS																	
ES63000000		Procurements	60	02OCT00A	03JAN01A			100	▲	▲	▲						
ES00001320		Specification	8	13NOV00A	04JUN01A			100	▲	▲	▲						
ES00001330		Fabrication	8	04JAN01A	02JUL01A			100	▲	▲	▲						
4.1.E.6.4 GPS																	
ES00001350		Procurement	30	02OCT00A	10NOV00A			100	▲	▲	▲						
ES00001360		Integration	32	13NOV00A	05JAN01A			100	▲	▲	▲						
4.1.E.6.5 CHASSIS																	
ES65000000		ACD Chassis	12	02OCT00A	17OCT00A			100	▲	▲	▲						
ES00001390		DAQ Chassis	64	02OCT00A	09JAN01A			100	▲	▲	▲						
ES00001380		Ethernet Hardware	4	10JAN01A	16JAN01A			100	▲	▲	▲						
ES00001400		Hardware Test	4	17JAN01A	22JAN01A			100	▲	▲	▲						
ES00001410		DAQ Pre-Integration Review	0		31JAN01A			100	◆	◆	◆						
4.1.E.7 BALLOON INTERFACE UNIT																	
4.1.E.7.1 BIU FABRICATION																	
ES00001440		BIU Procurements	55	02OCT00A	19DEC00A			100	▲	▲	▲						
ES71N00000	DN	NRL	169*	02OCT00A	08JUN01A		E	100	▲	▲	▲						
ES00001450		BIU Development	22	20DEC00A	29JAN01A			100	▲	▲	▲						
ES00001460		BIU Integration	8	30JAN01A	08FEB01A			100	▲	▲	▲						
ES00001470		SLAC I/F Test	5	09FEB01A	15FEB01A			100	▲	▲	▲						
ES00001480		Complete BIU Hardware	14	11APR01A	30APR01A			100	▲	▲	▲						
ES00001490		BIU Pre-ship Review	0		06JUN01A			100	◆	◆	◆						
ES00001500		Ship to GSFC	2	07JUN01A	08JUN01A			100	▲	▲	▲						
4.1.E.8 FLIGHT SOFTWARE																	
4.1.E.8.1 FLIGHT SOFTWARE DEVELOPMENT																	
ES00002030		Data readout to memory	71	02OCT00A	19JAN01A			100	▲	▲	▲						
ES00002040		VxWorks configuration	71	02OCT00A	19JAN01A			100	▲	▲	▲						
ES00002050		Data save to disk	71	02OCT00A	19JAN01A			100	▲	▲	▲						
ES00002060		Data packet transmission over ethernet	71	02OCT00A	19JAN01A			100	▲	▲	▲						
ES00002070		BFEM commanding development	71	02OCT00A	19JAN01A			100	▲	▲	▲						
ES00002080		H/W interface support	71	02OCT00A	19JAN01A			100	▲	▲	▲						
ES00002090		FSW Release 1	0		19JAN01A			100	◆	◆	◆						
4.1.E.8.2 FLIGHT SOFTWARE IMPLEMENTATION																	
ES00002110		Data acquisition architecture	27	22JAN01A	07JUN01A			100	▲	▲	▲						
ES00002120		Error detection and recovery	27	22JAN01A	07JUN01A			100	▲	▲	▲						
ES00002130		Command & Control	27	22JAN01A	14JUN01A			100	▲	▲	▲						
ES00002140		Integration & Test Support	27	22JAN01A	20JUN01A			100	▲	▲	▲						
ES00002150		FSW Release 2	0		20JUN01A			100	◆	◆	◆						
4.1.E.8.3 FLIGHT SOFTWARE INTEGRATION																	
ES00002170		FSW Debug & Test	40	21JUN01A	30JUL01A			100	▲	▲	▲						
ES00002180		FSW Release 3	0		30JUL01A			100	◆	◆	◆						
4.1.E.8.4 FINAL FLIGHT SOFTWARE																	
ES00002200		FSW Debug & Test	30	31JUL01A	02AUG01A			100	▲	▲	▲						
ES00002210		Final FSW Release	0		02AUG01A			100	◆	◆	◆						
4.1.E.9 EGSE & INSTRUMENT OPERATIONS																	
ES9H000000	DH	HEPL	206*	02OCT00A	01AUG01A		A	100	▲	▲	▲						
4.1.E.9.1 EGSE POWER SYSTEM																	
ES00002240		Procurement	63	02OCT00A	08JAN01A			100	▲	▲	▲						
ES00002250		GPIO Control	5	09JAN01A	16JAN01A			100	▲	▲	▲						
4.1.E.9.2 EGSE S/W DEVELOPMENT																	
ES90000040		Define GSE Display Requirements	21	02OCT00A	03JUL01A			100	▲	▲	▲						
ES00002270		Cmd & Tlm Database development	38	02OCT00A	16JUL01A			100	▲	▲	▲						
ES00002280		Data acquisition & archive	45	06NOV00A	18JAN01A			100	▲	▲	▲						
ES00002300		Data display	24	27NOV00A	05JAN01A			100	▲	▲	▲						
ES00002290		Data distribution	30	27NOV00A	16JAN01A			100	▲	▲	▲						
ES00002310		Commanding interface	30	27NOV00A	16JAN01A			100	▲	▲	▲						
ES00002320		EGSE Release 1	0		18JAN01A			100	◆	◆	◆						
4.1.E.9.3 EGSE S/W INTEGRATION																	
ES00002340		EGSE Implementation	26	19JAN01A	26FEB01A			100	▲	▲	▲						
ES00002350		EGSE Release 2	0		26FEB01A			100	◆	◆	◆						
ES00002360		EGSE Debug & Test	22	29MAY01A	20JUL01A			100	▲	▲	▲						
ES00002370		EGSE Release 3	0		20JUL01A			100	◆	◆	◆						
ES00002380		EGSE Debug & Test	50	23JUL01A	01AUG01A			100	▲	▲	▲						
ES00002390		Final EGSE Release	0		01AUG01A			100	◆	◆	◆						
4.1.E.A GONDOLA																	
ES00002670		Inventory gondola parts	14	02OCT00A	19OCT00A			100	▲	▲	▲						
ESAG000000	DG	GSFC	89*	02OCT00A	14FEB01A		E	100	▲	▲	▲						
ES00002680		Assemble gondola	30	20OCT00A	04DEC00A			100	▲	▲	▲						
ES00002690		Test gondola	15	05DEC00A	02JAN01A			100	▲	▲	▲						
ES00002700		Modify mount points for PV	30	03JAN01A	14FEB01A			100	▲	▲	▲						
4.1.E.B PRESSURE VESSEL																	
ES00001910		Ship PV to SLAC	7	06OCT00A	16OCT00A			100	▲	▲	▲						
ES00001920		Set up PV in I&T Building	2	17OCT00A	18OCT00A			100	▲	▲	▲						
ES00001930		Complete Interior Design	8	19OCT00A	30OCT00A			100	▲	▲	▲						
ES00001940		Order Mating Connectors	0		20OCT00A			100	◆	◆	◆						
ES00001960		Weigh PV	2	23OCT00A	24OCT00A			100	▲	▲	▲						
ES00001970		Leak Check PV	4	25OCT00A	30OCT00A			100	▲	▲	▲						
ES00001950		Submit Parts to Shop	8	31OCT00A	09NOV00A			100	▲	▲	▲						
ES00001980		Set up GLAST Lab in I&T Building	20	06NOV00A	05DEC00A			100	▲	▲	▲						
ES00001990		Fit check parts	10	06DEC00A	19DEC00A			100	▲	▲	▲						
ES00002000		Assembly Complete	8	20DEC00A	08JAN01A			100	▲	▲	▲						
4.1.E.C INTERGRATION & TEST																	
4.1.E.C.1 SLAC INTEGRATION & TEST																	
ES00002630		XGT Integration	10	02OCT00A	13OCT00A			100	▲	▲	▲						
ESC2000040		Lehman Review Preparation	5	05FEB01A	09FEB01A			100	▲	▲	▲						
ES00002620		BIU I/F Test	5	03APR01A	25APR01A			100	▲	▲	▲						

Activity ID	OBS	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PMT	% Comp	Fiscal Year							
									FY01	FY02	FY03	FY04	FY05	FY06	FY07	
ES00002610		Software Integration & Test	25	03APR01A	13MAY01A			100								
ES00002600		Hardware integration	6	10APR01A	18APR01A			100								
ES00002580		All BFEM Subsystems Arrive	0		20APR01A			100								
ES00002590		Receiving Inspection & Tests	5	23APR01A	27APR01A			100								
ESC1000000		NRL I&T Support	48*	23APR01A	28JUN01A			100								
ESC1000010		UCSC I&T Support	48*	23APR01A	28JUN01A			100								
ESC1000020		GSFC I&T Support	48*	23APR01A	28JUN01A			100								
ESC1000030		HEPL I&T Support	48*	23APR01A	28JUN01A			100								
ESC1000040		JGC I&T Support	48*	23APR01A	28JUN01A			100								
ESC1F00000	DG	GSFC	48*	23APR01A	28JUN01A		E	100								
ESC1F00010	DH	HEPL	48*	23APR01A	28JUN01A		E	100								
ESC1F00020	DN	NRL	48*	23APR01A	28JUN01A		E	100								
ESC1F00030	DU	UCSC	48*	23APR01A	28JUN01A		E	100								
ES00002640		Verification Test	3	14MAY01A	18MAY01A			100								
ES00002660		Pre-ship Review	0		14MAY01A			100								
ES00002650		Pack & Ship to GSFC	5	22JUN01A	28JUN01A			100								
4.1.E.C.2 GSFC INTEGRATION & TEST																
ES00002740		Hardware Integration with Gondola	6	06JUN01A	13JUN01A			100								
ES00002750		Software Integration & Test	20	16JUN01A	20JUL01A			100								
ES00002720		Tower Arrives at GSFC	0		28JUN01A			100								
ES00002730		Receiving Inspection & Test	4	29JUN01A	29JUN01A			100								
ESC2000000		NRL I&T Support	22*	29JUN01A	31JUL01A			100								
ESC2000010		UCSC I&T Support	22*	29JUN01A	31JUL01A			100								
ESC2000020		GSFC I&T Support	22*	29JUN01A	31JUL01A			100								
ESC2000030		HEPL I&T Support	22*	29JUN01A	31JUL01A			100								
ESC2000050		JGC I&T Support	22*	29JUN01A	31JUL01A			100								
ESC2F00000	DG	GSFC	22*	29JUN01A	31JUL01A		E	100								
ESC2F00010	DH	HEPL	22*	29JUN01A	31JUL01A		E	100								
ESC2F00020	DN	NRL	22*	29JUN01A	31JUL01A		E	100								
ESC2F00030	DU	UCSC	22*	29JUN01A	31JUL01A		E	100								
ES00002780		Pre-ship Review	1	23JUL01A	23JUL01A			100								
ESC3000040		Contingency	3	23JUL01A	23JUL01A			100								
ES00002760		Verification Test	8	31JUL01A	31JUL01A			100								
ES00002770		Pack & Ship to NSBF	0		31JUL01A			100								
4.1.E.C.3 NSBF INTEGRATION & TEST																
ES00002800		Receiving Inspection & Test	5	22JUL01A	30JUL01A			100								
ESC3000000		NRL I&T Support	11*	22JUL01A	03AUG01A			100								
ESC3000010		UCSC I&T Support	11*	22JUL01A	03AUG01A			100								
ESC3000020		GSFC I&T Support	11*	22JUL01A	03AUG01A			100								
ESC3000030		HEPL I&T Support	11*	22JUL01A	03AUG01A			100								
ESC3000050		JGC I&T Support	11*	22JUL01A	03AUG01A			100								
ESC3B00000	DG	GSFC	11*	22JUL01A	03AUG01A		E	100								
ESC3B00010	DH	HEPL	11*	22JUL01A	03AUG01A		E	100								
ESC3B00020	DN	NRL	11*	22JUL01A	03AUG01A		E	100								
ESC3B00030	DU	UCSC	11*	22JUL01A	03AUG01A		E	100								
ES00002810		Launch Site Integration & Test	10	26JUL01A	01AUG01A			100								
ES00002790		Shipment Arrives at NSBF	0		31JUL01A			100								
ES00002820		Verification Test	1	01AUG01A	03AUG01A			100								
ES00002815		Launch Readiness Review	0		03AUG01A			100								
4.1.E.C.4 BALLOON FLIGHT																
ES00002840		Launch Window	1	04AUG01A	04AUG01A			100								
ES00002850		Balloon flight operations	1	04AUG01A	04AUG01A			100								
ES00002860		Recover Payload	1	04AUG01A	06AUG01A			100								
ESC4BACT00	DG	GSFC Overrun	6	04AUG01A	10AUG01A		E	100								
ESC4000000		NRL Flight Support	6*	04AUG01A	10AUG01A			100								
ESC4000010		UCSC Flight Support	6*	04AUG01A	10AUG01A			100								
ESC4000020		GSFC Flight Support	6*	04AUG01A	10AUG01A			100								
ESC4000030		HEPL Flight Support	6*	04AUG01A	10AUG01A			100								
ESC4000040		JGC Flight Support	6*	04AUG01A	10AUG01A			100								
ESC4B00000	DG	GSFC	6*	04AUG01A	10AUG01A		E	100								
ESC4B00010	DH	HEPL	6*	04AUG01A	10AUG01A		E	100								
ESC4B00020	DN	NRL	6*	04AUG01A	10AUG01A		E	100								
ESC4B00030	DU	UCSC	6*	04AUG01A	10AUG01A		E	100								
ES00002870		Deintegration at Launch Site	1	06AUG01A	10AUG01A			100								
4.1.E.D SCIENCE ANALYSIS SOFTWARE																
4.1.E.D.1 DEFINE REQUIREMENTS																
ES00000070		Define Analysis Goals	20	02NOV00A	01DEC00A			100								
ES00000080		Define Data Formats	15	04DEC00A	22DEC00A			100								
ES00000090		Define Simulation Requirements	15	04DEC00A	22DEC00A			100								
ES00000110		Define Analysis Products	15	04DEC00A	22DEC00A			100								
4.1.E.D.2 DEVELOP SOFTWARE																
ES00000130		Develop Simulation	40	02JAN01A	28FEB01A			100								
ES00000160		Develop Tracking S/W	40	02JAN01A	28FEB01A			100								
ES00000140		Produce Preliminary Sim Results	10	01MAR01A	02AUG01A			100								
ES00000170		Verify S/W against simulations	10	01MAR01A	08AUG01A			100								
ES00000180		Develop Analysis S/W	45	01MAR01A	14SEP01A			100								
ES00000190		Test Analysis S/W on Ground Data	10	03MAY01A	14SEP01A			100								
ES00000150		Develop Background Rejection S/W	55	01JUN01A	14SEP01A			100								
ES00000200		Verify Simulations with Ground Data	10	30JUL01A	14SEP01A			100								
ES00000210		Complete Analysis S/W	1	14SEP01A	14SEP01A			100								
4.1.E.D.3 DATA ANALYSIS																
ES00000215		Process Data	12	06AUG01A	14SEP01A			100								
ES00000225		Analysis	16	07SEP01A	28SEP01A			100								
ES00000235		Deliver Preliminary Report	0		28SEP01A			100								