

ID	Task Name	% Comp	Dur	Start	Finish	TS	Pred	Succ
1	IMPACT - Dave Curtis (UCB) & Lil Reichenenthal (GSFC)	38%	673 d	2/26/03	10/14/05	0 d		
2	Suite Deliveries to APL	0%	51 d	8/13/04	10/28/04	0 d		
3	FM 1 Target Delivery Date	0%	0 d	10/7/04	10/7/04	0 d	5,7	
4	FM 1 Target Delivery Date	0%	0 d	10/28/04	10/28/04	0 d	8,6	
5	Boom Suite FM 1 Ready for Delivery to APL	0%	0 d	8/13/04	8/13/04	37 d	360	3
6	Boom Suite FM 2 Ready for Delivery to APL	0%	0 d	9/9/04	9/9/04	33 d	367	4
7	SEP Suite FM 1 Ready for Delivery to APL	0%	0 d	9/7/04	9/7/04	21 d	788,596,525	3
8	SEP Suite FM 2 Ready for Delivery to APL	0%	0 d	10/4/04	10/4/04	16 d	795,599,528	4
9	Environmental Testing - PER, Impact Suite EMC, Snapshots of Boom & SEP Sui	0%	181 d	1/14/04	9/28/04	270 d		
10	Reviews (PER and TRR's) - TRR Dates are Tentative	14%	107 d	1/14/04	6/15/04	344 d		
11	Instrument PER at UCB	100%	1 d	1/14/04	1/14/04	0 d		
12	TRR 1 - Prior to FM 1 SEPT Thermal Vac	0%	1 d	2/13/04	2/13/04	179 d	41SS-6 d	
13	TRR 2 - Prior to FM 1 IDPU Vibration	0%	1 d	4/14/04	4/14/04	137 d	20SS-5 d	
14	TRR 3 - Prior to FM 1 STE-U Thermal Vac/Thermal Balance	0%	1 d	3/10/04	3/10/04	162 d	23SS-5 d	
15	TRR 4 - Prior to FM 1 Boom Structure Vibration	0%	1 d	4/8/04	4/8/04	141 d	22SS-5 d	
16	TRR 5 - Prior to FM 1 SWEA Vibration	0%	1 d	5/4/04	5/4/04	123 d	25SS-5 d	
17	TRR 6 - Prior to FM 1 Impact Suite EMC (for Boom and SEP)	0%	1 d	6/15/04	6/15/04	344 d	18SS-5 d	
18	IMPACT Suite FM 1 EMC Testing at UCB	0%	10 d	6/22/04	7/5/04	14 d	358,766,426	783FS+3 d,595,181,345,569,£
19	Boom Suite FM 1 Environmental Test Flow Snapshot - UCB	0%	97 d	3/17/04	7/30/04	311 d		
20	IDPU Vibration	0%	5 d	4/21/04	4/27/04	128 d	179SS	13SS-5 d
21	IDPU Thermal Vac	0%	10 d	4/28/04	5/11/04	118 d	180SS	
22	Boom Structure Vibration	0%	4 d	4/15/04	4/20/04	133 d	218SS	15SS-5 d
23	STE-U Thermal Vac and Thermal Balance	0%	14 d	3/17/04	4/5/04	144 d	278SS	14SS-5 d
24	Boom Structure Thermal Vac	0%	15 d	4/21/04	5/11/04	118 d	219SS	
25	SWEA/STE Vibration	0%	5 d	5/11/04	5/17/04	114 d	344SS	16SS-5 d
26	SWEA/STE Thermal Vac and Thermal Balance	0%	14 d	7/6/04	7/23/04	316 d	345SS	
27	IDPU Bake Out	0%	5 d	7/6/04	7/12/04	325 d	181SS	
28	Boom Suite Bake Out	0%	5 d	7/26/04	7/30/04	311 d	359SS	
29	Boom Suite FM 2 Environmental Test Flow Snapshot - UCB	0%	93 d	4/16/04	8/25/04	293 d		
30	Boom Structure Vibration	0%	4 d	4/16/04	4/21/04	132 d	240SS	
31	IDPU Vibration	0%	5 d	5/10/04	5/14/04	115 d	184SS	
32	IDPU Thermal Vac	0%	10 d	5/17/04	5/28/04	105 d	185SS	
33	Boom Structure Thermal Vac	0%	15 d	5/12/04	6/2/04	103 d	241SS	
34	SWEA/STE Vibration	0%	5 d	7/14/04	7/20/04	69 d	352SS	
35	SWEA/STE Thermal Vac	0%	10 d	7/21/04	8/3/04	59 d	353SS	
36	Boom Suite FM 2 EMC	0%	5 d	8/12/04	8/18/04	48 d	365SS	
37	IDPU Bake Out	0%	5 d	8/19/04	8/25/04	43 d	186SS	
38	Boom Suite Bake Out	0%	5 d	8/19/04	8/25/04	43 d	366SS	
39	SEP Suite FM 1 Environmental Test Flow Snapshot	0%	149 d	2/9/04	9/7/04	285 d		
40	SEPT Vibe and Acoustics (in Europe)	0%	10 d	2/9/04	2/23/04	424 d	566SS,573SS	

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41	SEPT Thermal Vac (in Europe)	0%	10 d	2/24/04	3/8/04	414 d	567SS,574SS	12SS-6 d
42	SEPT Bake Out (in Europe)	0%	3 d	3/9/04	3/11/04	411 d	568SS,575SS	
43	LET/HET/SEP Cen Accelerator Test (at MSU)	0%	11 d	7/6/04	7/20/04	319 d	797SS	
44	SEPT Thermal Balance (at GSFC)	0%	10 d	7/6/04	7/19/04	320 d	569SS,576SS	
45	LET/HET/SEP Cen Vibe and Acoustics (at JPL)	0%	10 d	7/16/04	7/29/04	312 d	783SS	
46	LET/HET/SEP Cen Thermal Balance (at JPL)	0%	5 d	7/30/04	8/5/04	307 d	784SS	
47	LET/HET/SEP Cen Thermal Vac (at JPL)	0%	15 d	8/12/04	9/1/04	288 d	785SS	
48	LET/HET/SEP Cen Bake Out (at JPL)	0%	3 d	9/2/04	9/7/04	285 d	788SS	
49	SIT Vibe and Acoustics (at GSFC)	0%	10 d	7/8/04	7/21/04	318 d	718SS	
50	SIT Thermal Balance (at GSFC)	0%	5 d	7/23/04	7/29/04	312 d	720SS	
51	SIT Thermal Vac (at GSFC)	0%	10 d	7/30/04	8/12/04	302 d	721SS	
52	SIT Bake Out (at GSFC)	0%	3 d	8/17/04	8/19/04	297 d	723SS	
53	SEP Suite FM 2 Environmental Test Flow Snapshot	0%	168 d	2/3/04	9/28/04	270 d		
54	SEPT Vibe and Acoustics (in Europe)	0%	10 d	2/3/04	2/17/04	428 d	581SS,588SS	
55	SEPT Thermal Vac (in Europe)	0%	10 d	2/18/04	3/2/04	418 d	582SS,589SS	
56	SEPT Bake Out (in Europe)	0%	3 d	3/3/04	3/5/04	415 d	583SS,590SS	
57	SEP Suite FM 2 EMC (at Caltech)	0%	5 d	8/5/04	8/11/04	303 d	790SS	
58	LET/HET/SEP Cen Accelerator Test (at MSU)	0%	11 d	7/6/04	7/20/04	319 d	798SS	
59	SEPT Thermal Balance (at GSFC)	0%	10 d	7/6/04	7/19/04	320 d	584SS,591SS	
60	LET/HET/SEP Cen Vibe and Acoustics (at JPL)	0%	10 d	7/16/04	7/29/04	312 d	791SS	
61	LET/HET/SEP Cen Thermal Vac (at JPL)	0%	15 d	8/12/04	9/1/04	288 d	792SS	
62	LET/HET/SEP Cen Bake Out (at JPL)	0%	3 d	9/2/04	9/7/04	285 d	795SS	
63	SIT Vibe and Acoustics (at GSFC)	0%	10 d	8/16/04	8/27/04	291 d	727SS	
64	SIT Thermal Balance (at GSFC)	0%	5 d	8/31/04	9/7/04	285 d	729SS	
65	SIT Thermal Vac (at GSFC)	0%	10 d	9/8/04	9/21/04	275 d	730SS	
66	SIT Bake Out (at GSFC)	0%	3 d	9/24/04	9/28/04	270 d	732SS	
67	Power Converters - UCB	45%	330 d	2/26/03	6/16/04	343 d		
68	Deliveries	20%	100 d	12/9/03	4/30/04	44 d		
69	FM 1	40%	87 d	12/9/03	4/13/04	33 d		
70	Deliver IDPU FM 1 LVPS (stays at UCB)	0%	0 d	4/13/04	4/13/04	33 d	124	178
71	Deliver SEP FM 1 LVPS (to Caltech)	0%	1 d	3/17/04	3/17/04	50 d	128	447
72	Deliver SWEA/STE FM 1 LVPS (stays at UCB)	0%	0 d	3/22/04	3/22/04	27 d	132	340
73	Deliver PLASTIC FM 1 LVPS (to UNH)	0%	2 d	3/4/04	3/5/04	42 d	136	
74	Deliver SIT FM 1 HVPS (to UMD)	100%	2 d	12/9/03	12/10/03	0 d	138	680
75	FM 2	0%	28 d	3/24/04	4/30/04	44 d		
76	Deliver IDPU FM 2 LVPS (stays at UCB)	0%	0 d	4/30/04	4/30/04	37 d	145	183
77	Deliver SEP FM 2 LVPS (to Caltech)	0%	1 d	4/19/04	4/19/04	27 d	149	447
78	Deliver SWEA/STE FM 2 LVPS (stays at UCB)	0%	0 d	4/26/04	4/26/04	48 d	153	349
79	Deliver PLASTIC FM 2 LVPS (to UNH)	0%	2 d	4/12/04	4/13/04	41 d	157	
80	Deliver SIT FM 2 HVPS (to UMD)	0%	2 d	3/24/04	3/25/04	44 d	161	682

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81		Remaining Flight Procurements	75%	71 d	10/24/03	2/6/04	33 d		
82		Procure IDPU Flight Printed Wiring Board	0%	10 d	1/26/04	2/6/04	33 d	88	116
83		Procure SEP Flight Printed Wiring Board	100%	10 d	11/24/03	12/8/03	0 d	89	117
84		Procure SWEA Flight Printed Wiring Board	100%	10 d	12/4/03	12/17/03	0 d	90	118
85		Procure PLASTIC Flight Printed Wiring Board	100%	10 d	10/24/03	11/6/03	0 d		119
86		Fabrication	86%	226 d	2/26/03	1/20/04	71 d		
87		FM 1 & FM 2	100%	195 d	2/26/03	12/3/03	0 d		
88		Re-layout IDPU LVPS Flight Printed Wiring Board	100%	186 d	2/26/03	11/19/03	0 d		82
89		Re-layout SEP LVPS Flight Printed Wiring Board	100%	32 d	9/24/03	11/7/03	0 d		83
90		Re-layout SWEA LVPS Flight Printed Wiring Board	100%	5 d	11/26/03	12/3/03	0 d		84
91		FM 1	100%	45 d	9/29/03	12/3/03	0 d		
92		Wind IDPU LVPS FM 1 Magnets	100%	10 d	10/17/03	10/30/03	0 d		104
93		Wind SEP LVPS FM 1 Magnets	100%	15 d	9/29/03	10/20/03	0 d		105
94		Wind SWEA LVPS FM 1 Magnets	100%	5 d	11/26/03	12/3/03	0 d		106
95		Wind PLASTIC LVPS FM 1 Magnets	100%	45 d	9/29/03	12/3/03	0 d		107
96		FM 2	30%	15 d	12/29/03	1/20/04	71 d		
97		Wind HVPS FM 2 Magnets	30%	15 d	12/29/03	1/20/04	44 d		113,98SS,99SS,100SS,101SS
98		Wind IDPU LVPS FM 2 Magnets	30%	15 d	12/29/03	1/20/04	64 d	97SS	109
99		Wind SEP LVPS FM 2 Magnets	30%	15 d	12/29/03	1/20/04	44 d	97SS	110
100		Wind SWEA LVPS FM 2 Magnets	30%	15 d	12/29/03	1/20/04	71 d	97SS	111
101		Wind PLASTIC LVPS FM 2 Magnets	30%	15 d	12/29/03	1/20/04	54 d	97SS	112
102		Assembly	2%	57 d	12/29/03	3/19/04	44 d		
103		FM 1	5%	44 d	12/29/03	3/2/04	33 d		
104		Assemble IDPU FM 1 LVPS	0%	12 d	2/13/04	3/2/04	33 d	92,116	122
105		Assemble SEP FM 1 LVPS	0%	15 d	1/12/04	2/2/04	50 d	117,93	126
106		Assemble SWEA FM 1 LVPS	0%	14 d	1/20/04	2/6/04	27 d	94,118	130
107		Assemble PLASTIC FM 1 LVPS	20%	15 d	12/29/03	1/20/04	42 d	119,95	134
108		FM 2	0%	42 d	1/21/04	3/19/04	44 d		
109		Assemble IDPU FM 2 LVPS	0%	15 d	3/1/04	3/19/04	37 d	98	143
110		Assemble SEP FM 2 LVPS	0%	15 d	2/13/04	3/5/04	27 d	99	147
111		Assemble SWEA FM 2 LVPS	0%	15 d	2/24/04	3/15/04	48 d	100	151
112		Assemble PLASTIC FM 2 LVPS	0%	14 d	2/9/04	2/27/04	41 d	101	155
113		Assemble SIT FM 2 HVPS	0%	14 d	1/21/04	2/9/04	44 d	97	159
114		Testing	12%	157 d	10/31/03	6/16/04	343 d		
115		FM 1 & FM 2	80%	55 d	11/24/03	2/12/04	33 d		
116		Coupon Test IDPU Flight Printed Wiring Board	0%	4 d	2/9/04	2/12/04	33 d	82	104
117		Coupon Test SEP Flight Printed Wiring Board	100%	5 d	12/9/03	12/15/03	0 d	83	105
118		Coupon Test SWEA Flight Printed Wiring Board	100%	6 d	1/9/04	1/16/04	0 d	84	106
119		Coupon Test PLASTIC Flight Printed Wiring Board	100%	5 d	11/24/03	12/1/03	0 d	85	107
120		FM 1	16%	157 d	10/31/03	6/16/04	343 d		

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121	IDPU	0%	30 d	3/3/04	4/13/04	33 d		
122	Test IDPU FM 1 LVPS	0%	15 d	3/3/04	3/23/04	33 d	104	123
123	Coat & Stake IDPU LVPS FM 1 Boards	0%	5 d	3/24/04	3/30/04	33 d	122	124
124	Retest IDPU LVPS FM 1 Boards	0%	10 d	3/31/04	4/13/04	33 d	123	70
125	SEP	0%	30 d	2/3/04	3/16/04	50 d		
126	Test SEP FM 1 LVPS	0%	15 d	2/3/04	2/24/04	50 d	105	127
127	Coat & Stake SEP LVPS FM 1 Boards	0%	5 d	2/25/04	3/2/04	50 d	126	128
128	Retest SEP LVPS FM 1 Boards	0%	10 d	3/3/04	3/16/04	50 d	127,379	71
129	SWEA	0%	30 d	2/9/04	3/22/04	27 d		
130	Test SWEA FM 1 LVPS	0%	15 d	2/9/04	3/1/04	27 d	106	131
131	Coat & Stake SWEA LVPS FM 1 Boards	0%	5 d	3/2/04	3/8/04	27 d	130	132
132	Retest SWEA LVPS FM 1 Boards	0%	10 d	3/9/04	3/22/04	27 d	131	72
133	PLASTIC	0%	30 d	1/21/04	3/3/04	42 d		
134	Test PLASTIC FM 1 LVPS	0%	15 d	1/21/04	2/10/04	42 d	107	135
135	Coat & Stake PLASTIC LVPS FM 1 Boards	0%	5 d	2/11/04	2/18/04	42 d	134	136
136	Retest PLASTIC LVPS FM 1 Boards	0%	10 d	2/19/04	3/3/04	42 d	135	73
137	SIT	63%	157 d	10/31/03	6/16/04	343 d		
138	Test SIT FM 1 HVPS	100%	25 d	10/31/03	12/8/03	0 d		74
139	Coat & Stake SIT FM 1 HVPS Boards (at UMD)	0%	5 d	5/26/04	6/2/04	343 d	690SS	140
140	Retest SIT FM 1 HVPS Boards (at UMD)	0%	10 d	6/3/04	6/16/04	343 d	139	
141	FM 2	0%	58 d	2/10/04	4/30/04	44 d		
142	IDPU	0%	30 d	3/22/04	4/30/04	37 d		
143	Test IDPU FM 2 LVPS	0%	15 d	3/22/04	4/9/04	37 d	109	144
144	Coat & Stake IDPU LVPS FM 2 Boards	0%	5 d	4/12/04	4/16/04	37 d	143	145
145	Retest IDPU LVPS FM 2 Boards	0%	10 d	4/19/04	4/30/04	37 d	144	76
146	SEP	0%	30 d	3/8/04	4/16/04	27 d		
147	Test SEP FM 2 LVPS	0%	15 d	3/8/04	3/26/04	27 d	110	148
148	Coat & Stake SEP LVPS FM 2 Boards	0%	5 d	3/29/04	4/2/04	27 d	147	149
149	Retest SEP LVPS FM 2 Boards	0%	10 d	4/5/04	4/16/04	27 d	148,379	77
150	SWEA	0%	30 d	3/16/04	4/26/04	48 d		
151	Test SWEA FM 2 LVPS	0%	15 d	3/16/04	4/5/04	48 d	111	152
152	Coat & Stake SWEA LVPS FM 2 Boards	0%	5 d	4/6/04	4/12/04	48 d	151	153
153	Retest SWEA LVPS FM 2 Boards	0%	10 d	4/13/04	4/26/04	48 d	152	78
154	PLASTIC	0%	30 d	3/1/04	4/9/04	41 d		
155	Test PLASTIC FM 2 LVPS	0%	15 d	3/1/04	3/19/04	41 d	112	156
156	Coat & Stake PLASTIC LVPS FM 2 Boards	0%	5 d	3/22/04	3/26/04	41 d	155	157
157	Retest PLASTIC LVPS FM 2 Boards	0%	10 d	3/29/04	4/9/04	41 d	156	79
158	SIT	0%	30 d	2/10/04	3/23/04	44 d		
159	Test SIT FM 2 HVPS	0%	15 d	2/10/04	3/2/04	44 d	113	160
160	Coat & Stake SIT FM 2 HVPS Boards	0%	5 d	3/3/04	3/9/04	44 d	159	161

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161		Retest SIT FM 2 HVPS Boards	0%	10 d	3/10/04	3/23/04	44 d	160	80
162		IDPU - UCB	59%	340 d	5/5/03	9/7/04	285 d		
163		Deliveries	0%	78 d	2/9/04	5/28/04	98 d		
164		IDPU FM 1 Complete (to UCB for Boom I&T, then to CIT for SEP I&T, Suite	0%	0 d	5/11/04	5/11/04	33 d	180	358
165		IDPU FM 2 Complete (to CIT for SEP I&T, then to UCB for Boom I&T, Boom	0%	0 d	5/28/04	5/28/04	37 d	185	774
166		Deliver IDPU S/W Build 3 (to UNH)	0%	0 d	2/9/04	2/9/04	433 d	169	
167		Flight Software	81%	192 d	5/5/03	2/9/04	105 d		
168	✓	IDPU S/W Build #2.5	100%	131 d	5/5/03	11/7/03	0 d		178
169	☒	IDPU S/W Build #3	60%	120 d	8/15/03	2/9/04	105 d		185,166
170		GSE	50%	301 d	6/30/03	9/7/04	285 d		
171	✓	STE Science Display	100%	27 d	10/23/03	12/2/03	0 d		
172	☒	SWEA Science Display	62%	140 d	6/30/03	1/21/04	446 d		
173	☒	GSE Continued Development	40%	291 d	7/15/03	9/7/04	285 d		
174		Integration & Test	33%	224 d	10/7/03	8/25/04	33 d		
175	✓	IDPU DCB FM 2 Board Level Testing	100%	15 d	10/7/03	10/28/03	0 d		183,176
176	✓	IDPU DCB Clean/Stake/Coat (FM 1 & FM 2)	100%	10 d	12/26/03	1/9/04	0 d	175	178,183
177		FM 1	0%	63 d	4/14/04	7/12/04	33 d		
178		IDPU FM 1 I & T	0%	5 d	4/14/04	4/20/04	33 d	168,70,245,289,176	179
179		IDPU FM 1 Vibration	0%	5 d	4/21/04	4/27/04	33 d	178	180,20SS
180		IDPU FM 1 Thermal Vacuum	0%	10 d	4/28/04	5/11/04	33 d	179	164,181,21SS
181		IDPU FM 1 Bakeout	0%	5 d	7/6/04	7/12/04	51 d	18,180	360,27SS
182		FM 2	0%	82 d	5/3/04	8/25/04	33 d		
183		IDPU FM 2 I & T	0%	5 d	5/3/04	5/7/04	37 d	76,246,290,175,176	184
184		IDPU FM 2 Vibration	0%	5 d	5/10/04	5/14/04	37 d	183	185,31SS
185		IDPU FM 2 Thermal Vacuum	0%	10 d	5/17/04	5/28/04	37 d	169,184	165,186,32SS
186		IDPU FM 2 Bakeout	0%	5 d	8/19/04	8/25/04	33 d	185,366SS	367,37SS
187		BOOM Suite - UCB	56%	302 d	7/1/03	9/9/04	283 d		
188		BOOM Structure - UCB	59%	187 d	9/10/03	6/8/04	73 d		
189		Deliveries	0%	104 d	1/9/04	6/8/04	73 d		
190	✓	Protoflight Boom available for I&T (if needed)	100%	0 d	1/9/04	1/9/04	0 d	195	
191		Deliver Boom Structure FM 1 (stays at UCB for Boom Suite FM 1 I&T)	0%	0 d	5/17/04	5/17/04	27 d	220	358,357
192		Deliver Boom Structure FM 2 (stays at UCB for Boom Suite FM 2 I&T)	0%	0 d	6/8/04	6/8/04	73 d	242	364,363
193	✓	Protoflight	100%	79 d	9/16/03	1/9/04	0 d		
194	✓	Protoflight Boom Post Environmental Deployment Test	100%	35 d	9/16/03	11/4/03	0 d		195
195	✓	Document Protoflight Boom Test Results	100%	44 d	11/5/03	1/9/04	0 d	194	190
196	✓	Flight Procurements	100%	40 d	9/10/03	11/5/03	0 d		
197	✓	Receive and Inspect Flight Boom Structure Tubes (FM 1)	100%	32 d	9/10/03	10/24/03	0 d		202,203FF+47 d
198	✓	Receive and Inspect Flight Boom Structure Tubes (FM 2)	100%	40 d	9/10/03	11/5/03	0 d		224
199		FM 1	46%	159 d	9/29/03	5/17/04	27 d		
200		Telescoping	59%	81 d	10/27/03	2/24/04	29 d		

ID		Task Name	% Comp	Dur	Start	Finish	TS	Pred	Succ
201		Fabrication, Assembly & Test	59%	81 d	10/27/03	2/24/04	29 d		
202	✓	Machine FM 1 Boom Structure Tubes as necessary	100%	5 d	10/27/03	10/31/03	0 d	197	204
203	✓	Machine FM 1 Boom Structure Parts (Rings)	100%	38 d	11/7/03	1/5/04	0 d	197FF+47 d	204,225SS
204	☒	Assemble FM 1 Boom Structure Telescoping Assembly	0%	20 d	1/12/04	2/9/04	29 d	202,203	205
205		Test FM 1 Boom Structure Telescoping Assembly	0%	10 d	2/10/04	2/24/04	29 d	204	216
206		Harness	41%	102 d	9/29/03	2/26/04	27 d		
207		Fabrication	59%	72 d	9/29/03	1/13/04	27 d		
208	☒	Machine FM 1 Harness Parts	59%	72 d	9/29/03	1/13/04	27 d		210,230SS
209		Assembly & Test	0%	30 d	1/14/04	2/26/04	27 d		
210		Assemble FM 1 Harness subassembly	0%	20 d	1/14/04	2/11/04	27 d	208	211
211		FM1 Harness Test	0%	10 d	2/12/04	2/26/04	27 d	210	216
212	✓	Mounting	100%	38 d	9/29/03	11/21/03	0 d		
213	✓	FM 1 Boom Structure Mounting Fabrication	100%	28 d	9/29/03	11/6/03	0 d		214,235SS
214	✓	FM 1 Boom Structure Mounting Assembly	100%	10 d	11/7/03	11/21/03	0 d	213	
215		Integration & Test	0%	57 d	2/27/04	5/17/04	27 d		
216		Integrate FM 1 Boom Structure subassemblies	0%	20 d	2/27/04	3/25/04	27 d	205,211	217
217		FM 1 Boom Structure Deployment Test	0%	10 d	3/26/04	4/8/04	27 d	216	218,356
218		FM 1 Boom Structure Vibration Testing Completed	0%	4 d	4/15/04	4/20/04	27 d	217,356	219,22SS
219		FM 1 Boom Structure Themal Vac Testing Completed	0%	15 d	4/21/04	5/11/04	27 d	218	220,241,24SS
220		FM 1 Boom Structure Post Environmental Deployment Test Comp	0%	4 d	5/12/04	5/17/04	27 d	219	191
221		FM 2	47%	174 d	9/29/03	6/8/04	73 d		
222		Telescoping	62%	73 d	11/6/03	2/24/04	90 d		
223		Fabrication, Assembly & Test	62%	73 d	11/6/03	2/24/04	90 d		
224	✓	Machine FM 2 Boom Structure Tubes as necessary	100%	11 d	11/6/03	11/21/03	0 d	198	226
225	✓	Machine FM 2 Boom Structure Parts (Rings)	100%	38 d	11/7/03	1/5/04	0 d	203SS	226
226	☒	Assemble FM 2 Boom Structure Telescoping Assembly	0%	20 d	1/12/04	2/9/04	90 d	224,225	227
227		Test FM 2 Boom Structure Telescoping Assembly	0%	10 d	2/10/04	2/24/04	90 d	226	238
228		Harness	41%	102 d	9/29/03	2/26/04	88 d		
229		Fabrication	59%	72 d	9/29/03	1/13/04	88 d		
230		Machine FM 2 Harness Parts	59%	72 d	9/29/03	1/13/04	88 d	208SS	232
231		Assembly & Test	0%	30 d	1/14/04	2/26/04	88 d		
232		Assemble FM 2 Harness subassembly	0%	20 d	1/14/04	2/11/04	88 d	230	233
233		FM 2 Harness Test	0%	10 d	2/12/04	2/26/04	88 d	232	238
234	✓	Mounting	100%	38 d	9/29/03	11/21/03	0 d		
235	✓	FM 2 Boom Structure Mountings Fabrication	100%	28 d	9/29/03	11/6/03	0 d	213SS	236
236	✓	FM 2 Boom Structure Mountings Assembly	100%	10 d	11/7/03	11/21/03	0 d	235	
237		Integration & Test	0%	72 d	2/27/04	6/8/04	73 d		
238		Integrate FM 2 Boom Structure subassemblies	0%	20 d	2/27/04	3/25/04	88 d	227,233	239
239		FM 2 Boom Structure Deployment Test	0%	10 d	3/26/04	4/8/04	88 d	238	240,362
240		FM 2 Boom Structure Vibration Test	0%	4 d	4/16/04	4/21/04	87 d	239,362	241,30SS

ID	Task Name	% Comp	Dur	Start	Finish	TS	Pred	Succ
241	FM 2 Boom Structure Thermal Vac Testing	0%	15 d	5/12/04	6/2/04	73 d	240,219	242,33SS
242	FM 2 Boom Structure Post Environmental Deployment Test	0%	4 d	6/3/04	6/8/04	73 d	241	192
243	MAG - GSFC	0%	47 d	1/9/04	3/17/04	63 d		
244	Deliveries	0%	22 d	2/17/04	3/17/04	63 d		
245	Deliver MAG FM 1 (to UCB for IDPU/BOOM Suite FM 1 I&T)	0%	2 d	2/17/04	2/18/04	63 d	249	178,356
246	Deliver MAG FM 2 (to UCB for IDPU/BOOM Suite FM 2 I&T)	0%	2 d	3/16/04	3/17/04	69 d	252	183,362
247	FM 1	0%	25 d	1/9/04	2/13/04	63 d		
248	FM 1 MAG Testing	0%	10 d	1/9/04	1/23/04	63 d		249
249	MAG FM 1 Calibration	0%	15 d	1/26/04	2/13/04	63 d	248	245
250	FM 2	0%	25 d	2/9/04	3/15/04	69 d		
251	FM 2 MAG Testing	0%	10 d	2/9/04	2/23/04	69 d		252
252	MAG FM 2 Calibration	0%	15 d	2/24/04	3/15/04	69 d	251	246
253	SWEA - CESR	6%	79 d	12/8/03	3/31/04	76 d		
254	Deliveries	50%	79 d	12/8/03	3/31/04	76 d		
255	SWEA FM 1 Delivery to UCB	100%	3 d	12/8/03	12/10/03	0 d		342
256	SWEA FM 2 Delivery to UCB	0%	3 d	3/29/04	3/31/04	76 d	259	350
257	FM 2	0%	47 d	1/21/04	3/26/04	76 d		
258	SWEA FM 2 Final Assembly (Block 2)	0%	3 d	1/21/04	1/23/04	76 d		259
259	SWEA FM 2 Calibration	0%	44 d	1/26/04	3/26/04	76 d	258	256
260	STE - UCB	55%	153 d	8/29/03	4/9/04	87 d		
261	Deliveries	0%	8 d	3/30/04	4/9/04	31 d		
262	Deliver STE-D FM 1 (stays at UCB for SWEA/STE-D FM 1 I&T)	0%	0 d	3/30/04	3/30/04	31 d	277	342
263	Deliver STE-D FM 2 (stays at UCB for SWEA/STE-D FM 2 I&T)	0%	0 d	4/9/04	4/9/04	69 d	285	350
264	Deliver STE-U FM 1 (stays at UCB for BOOM Suite FM 1 I&T)	0%	0 d	4/5/04	4/5/04	30 d	278	356
265	Deliver STE-U FM 2 (stays at UCB for BOOM Suite FM 2 I&T)	0%	0 d	4/9/04	4/9/04	87 d	286	362
266	STE-U/D Housing	71%	38 d	11/21/03	1/16/04	99 d		
267	Fabricate STE FM 1 Box	71%	38 d	11/21/03	1/16/04	40 d		276
268	Fabricate STE FM 2 Box	71%	38 d	11/21/03	1/16/04	99 d		284
269	STE-U/D Detector Boards	51%	153 d	8/29/03	4/9/04	87 d		
270	Coupon Test STE FM 1 & FM 2 Detector Printed Wiring Board	100%	17 d	10/10/03	11/4/03	0 d	272,280	273,281
271	FM 1	47%	149 d	8/29/03	4/5/04	30 d		
272	Fabrication STE FM 1 Detector Printed Wiring Board	100%	29 d	8/29/03	10/9/03	0 d		270
273	Load STE FM 1 Detector Printed Wiring Board	78%	49 d	11/5/03	1/16/04	30 d	270	274
274	Test STE FM 1 Detector Printed Wiring Board	0%	10 d	1/20/04	2/2/04	30 d	273	276
275	Integration & Test	0%	44 d	2/3/04	4/5/04	30 d		
276	Integrate & Test STE-U/D FM 1 Detectors W/ FM 1 Housings	0%	20 d	2/3/04	3/2/04	30 d	267,274	284,277
277	Calibrate STE-U/D FM 1	0%	20 d	3/3/04	3/30/04	30 d	276	278FS-10 d,262
278	STE-U FM 1 Thermal Vacuum/Balance	0%	14 d	3/17/04	4/5/04	30 d	277FS-10 d	264,23SS
279	FM 2	48%	153 d	8/29/03	4/9/04	87 d		
280	Fabricate STE FM 2 Detector Printed Wiring Board	100%	29 d	8/29/03	10/9/03	0 d		270

ID		Task Name	% Comp	Dur	Start	Finish	TS	Pred	Succ
281		Load STE FM 2 Detector Printed Wiring Board	60%	63 d	11/5/03	2/6/04	75 d	270	282
282		Test STE FM 2 Detector Printed Wiring Board	0%	10 d	2/9/04	2/23/04	75 d	281	284
283		Integration & Test	0%	28 d	3/3/04	4/9/04	69 d		
284		Integrate & Test STE-U/D FM 2 Detectors W/ FM 2 Housings	0%	10 d	3/3/04	3/16/04	69 d	268,282,276	285
285		Calibrate STE-U/D FM 2	0%	18 d	3/17/04	4/9/04	69 d	284	286FS-10 d,263
286		STE-U FM 2 Thermal Vacuum	0%	10 d	3/29/04	4/9/04	87 d	285FS-10 d	265
287		STE and SWEA - UCB	67%	276 d	7/1/03	8/3/04	309 d		
288		Deliveries	0%	125 d	2/6/04	8/3/04	33 d		
289		Deliver STE-U FM 1 Interface (stays at UCB for IDPU FM 1 I&T)	0%	0 d	2/6/04	2/6/04	79 d	338	178
290		Deliver STE-U FM 2 Interface (stays at UCB for IDPU FM 2 I&T)	0%	0 d	2/20/04	2/20/04	87 d	347	183
291		Deliver SWEA/STE-D FM 1 (stays at UCB for Boom Suite FM 1 I&T)	0%	0 d	5/17/04	5/17/04	27 d	344	357
292		Deliver SWEA/STE-D FM 2 (stays at UCB for Boom Suite FM 2 I&T)	0%	0 d	8/3/04	8/3/04	33 d	353	363
293		SWEA Pedestal	92%	137 d	7/1/03	1/16/04	97 d		
294		Fabricate SWEA FM 1 Baseplate	92%	137 d	7/1/03	1/16/04	51 d		339
295		Fabricate SWEA FM 2 Baseplate	92%	137 d	7/1/03	1/16/04	97 d		348
296		STE-D Pre-Amp Board	89%	98 d	9/22/03	2/12/04	79 d		
297		FM 1	87%	98 d	9/22/03	2/12/04	33 d		
298	✓	Fabricate STE-D FM 1 Preamp Printed Wiring Board	100%	34 d	9/22/03	11/7/03	0 d		303
299		Load STE-D FM 1 Preamp Printed Wiring Board	0%	5 d	2/6/04	2/12/04	33 d	303	339,302SS
300		FM 2	87%	98 d	9/22/03	2/12/04	79 d		
301	✓	Fabricate STE-D FM 2 Preamp Printed Wiring Board	100%	34 d	9/22/03	11/7/03	0 d		303
302		Load STE-D FM 2 Preamp Printed Wiring Board	0%	5 d	2/6/04	2/12/04	79 d	299SS	348
303	✓	Coupon Test STE-D FM 1 & FM 2 Pre-Amp Printed Wiring Boards	100%	15 d	11/10/03	12/2/03	0 d	298,301	299
304		STE-D Shaper Board	64%	94 d	12/4/03	4/19/04	33 d		
305		FM 1	67%	44 d	12/4/03	2/6/04	37 d		
306	✓	Fabricate STE-D FM 1 Shaper Printed Wiring Board	100%	10 d	12/4/03	12/17/03	0 d		311
307		Load STE-D FM 1 Shaper Printed Wiring Board	0%	5 d	2/2/04	2/6/04	37 d	311	339,315SS
308		FM 2	67%	94 d	12/4/03	4/19/04	33 d		
309	✓	Fabricate STE-D FM 2 Shaper Printed Wiring Board	100%	10 d	12/4/03	12/17/03	0 d		311
310		Load STE-D FM 2 Shaper Printed Wiring Board	0%	5 d	4/13/04	4/19/04	33 d	311,342	348,318SS
311		Coupon Test STE-D FM 1 & FM 2 Shaper Printed Wiring Boards	60%	15 d	12/18/03	1/9/04	51 d	306,309	307,310
312		STE-D Interface Board	64%	94 d	12/4/03	4/19/04	384 d		
313		FM 1	67%	44 d	12/4/03	2/6/04	37 d		
314	✓	Fabricate SWEA / STE-D FM 1 Digital to Analog Converter Printed	100%	10 d	12/4/03	12/17/03	0 d		319
315		Load SWEA / STE-D FM 1 Digital to Analog Converter Printed Wir	0%	5 d	2/2/04	2/6/04	37 d	307SS	339
316		FM 2	67%	94 d	12/4/03	4/19/04	33 d		
317	✓	Fabricate SWEA / STE-D FM 2 Digital to Analog Converter Printed	100%	10 d	12/4/03	12/17/03	0 d		319
318		Load SWEA / STE-D FM 2 Digital to Analog Converter Printed Wir	0%	5 d	4/13/04	4/19/04	33 d	310SS	348
319		Coupon Test STE-D FM 1 & FM 2 D/A Converter Printed Wiring Boards	60%	15 d	12/18/03	1/9/04	453 d	314,317	
320		STE-U Pre-Amp Board	95%	98 d	9/22/03	2/12/04	87 d		

ID		Task Name	% Comp	Dur	Start	Finish	TS	Pred	Succ
321	✓	FM 1	100%	79 d	9/22/03	1/15/04	0 d		
322	✓	Fabricate STE-U FM 1 Preamp Printed Wiring Board	100%	34 d	9/22/03	11/7/03	0 d		327
323	✓	Load STE-U FM 1 Preamp Printed Wiring Board	100%	4 d	1/12/04	1/15/04	0 d	327	338
324		FM 2	87%	98 d	9/22/03	2/12/04	87 d		
325	✓	Fabricate STE-U FM 2 Preamp Printed Wiring Board	100%	34 d	9/22/03	11/7/03	0 d		327
326	☒	Load STE-U FM 2 Preamp Printed Wiring Board	0%	5 d	2/6/04	2/12/04	87 d	327	347
327	✓	Coupon Test STE-U FM 1 & FM 2 Pre-Amp Printed Wiring Boards	100%	15 d	11/10/03	12/2/03	0 d	322,325	323,326
328		STE-U Shaper & Interface Board	64%	39 d	12/4/03	1/30/04	96 d		
329		FM 1	67%	39 d	12/4/03	1/30/04	79 d		
330	✓	Fabricate STE-U FM 1 Shaper & Interface Printed Wiring Board	100%	10 d	12/4/03	12/17/03	0 d		335
331	☒	Load STE-U FM 1 Shaper & Interface Printed Wiring Board	0%	5 d	1/26/04	1/30/04	79 d	335	338,334SS
332		FM 2	67%	39 d	12/4/03	1/30/04	96 d		
333	✓	Fabricate STE-U FM 2 Shaper & Interface Printed Wiring Board	100%	10 d	12/4/03	12/17/03	0 d		335
334		Load STE-U FM 2 Shaper & Interface Printed Wiring Board	0%	5 d	1/26/04	1/30/04	96 d	331SS	347
335		Coupon Test STE-U FM 1 & FM 2 Shaper & Interface Printed Wiring Boards	60%	15 d	12/18/03	1/9/04	88 d	330,333	331
336		Integration & Test	0%	130 d	2/2/04	8/3/04	33 d		
337		FM 1	0%	123 d	2/2/04	7/23/04	37 d		
338		Integrate & Test STE-U FM 1 Interface Boards	0%	5 d	2/2/04	2/6/04	79 d	323,331	289
339		Integrate & Test SWEA/STE-D FM 1 Interface Boards	0%	20 d	2/13/04	3/12/04	33 d	294,299,307,315	340,341
340		Integrate & Test SWEA/STE-D FM 1 Interface with SWEA/STE-D	0%	10 d	3/23/04	4/5/04	27 d	339,72	342
341		Clean/Coat/Stake SWEA/STE-D Interface	0%	10 d	3/15/04	3/26/04	33 d	339	342
342		Integrate & Test SWEA/STE-D FM 1 Combined	0%	5 d	4/6/04	4/12/04	27 d	340,341,255,262	343,310
343		Calibrate SWEA/STE FM 1	0%	20 d	4/13/04	5/10/04	27 d	342	344
344		SWEA/STE FM 1 Vibration	0%	5 d	5/11/04	5/17/04	27 d	343	291,25SS
345		SWEA/STE-D FM 1 Thermal Vac/Thermal Balance	0%	14 d	7/6/04	7/23/04	37 d	18	359,26SS
346		FM 2	0%	121 d	2/13/04	8/3/04	33 d		
347		Integrate & Test STE-U FM 2 Interface Boards	0%	5 d	2/13/04	2/20/04	87 d	326,334	290
348		Integrate & Test SWEA/STE-D FM 2 Interface Boards	0%	20 d	4/20/04	5/17/04	33 d	295,302,310,318	349
349		Integrate & Test SWEA/STE-D FM 2 Interface with SWEA/STE-D	0%	10 d	5/18/04	6/1/04	33 d	348,78	350
350		Integrate & Test SWEA/STE-D FM 2 Combined	0%	10 d	6/2/04	6/15/04	33 d	349,256,263	351
351		Calibrate SWEA/STE FM 2	0%	20 d	6/16/04	7/13/04	33 d	350	352
352		SWEA/STE FM 2 Vibration	0%	5 d	7/14/04	7/20/04	33 d	351	353,34SS
353		SWEA/STE-D FM 2 Thermal Vac	0%	10 d	7/21/04	8/3/04	33 d	352	292,35SS
354		Boom Suite I&T - UCB	0%	108 d	4/9/04	9/9/04	27 d		
355		FM 1	0%	90 d	4/9/04	8/13/04	27 d		
356		FM 1 Boom/MAG/STE-U I&T	0%	4 d	4/9/04	4/14/04	27 d	217,245,264	218
357		FM 1 Boom/SWEA/STE/MAG I&T	0%	2 d	5/18/04	5/19/04	27 d	291,191	358
358		FM 1 Integrated Boom/IDPU I&T	0%	4 d	5/20/04	5/25/04	27 d	357,191,164	359,18,763
359		BOOM Suite FM 1 Bakeout	0%	5 d	7/26/04	7/30/04	37 d	358,345	360,28SS
360		Final BOOM Suite FM 1 I & T	0%	10 d	8/2/04	8/13/04	37 d	359,181	5

ID	Task Name	% Comp	Dur	Start	Finish	TS	Pred	Succ
361	FM 2	0%	107 d	4/12/04	9/9/04	33 d		
362	FM 2 Boom/MAG/STE-U I&T	0%	4 d	4/12/04	4/15/04	87 d	239,246,265	240
363	FM 2 Boom/SWEA/STE/MAG I&T	0%	2 d	8/4/04	8/5/04	33 d	292,192	364
364	FM 2 Integrated Boom/IDPU I&T	0%	4 d	8/6/04	8/11/04	33 d	363,192,775	365
365	Boom Suite FM 2 EMC	0%	5 d	8/12/04	8/18/04	33 d	364	366,36SS
366	BOOM Suite FM 2 Bakeout	0%	5 d	8/19/04	8/25/04	33 d	365	367,186SS,38SS
367	Final BOOM Suite FM 2 I & T	0%	10 d	8/26/04	9/9/04	33 d	366,186	6
368	SEP Suite - CIT	29%	351 d	6/2/03	10/20/04	255 d		
369	SEP Mechanical - Sandy Shuman (GSFC)	0%	93 d	1/22/04	6/2/04	19 d		
370	SIT Electronics Enclosure (Priority 1)	0%	21 d	1/22/04	2/20/04	22 d		
371	Complete Design/Drawings for SIT Enclosure	0%	5 d	1/22/04	1/28/04	22 d		372,376
372	Fabrication of SIT Enclosure	0%	10 d	1/29/04	2/11/04	33 d	371	373
373	Inspection and Final Assembly of SIT Enclosure	0%	5 d	2/12/04	2/19/04	33 d	372	374
374	Deliver SIT Enclosure to UMD	0%	1 d	2/20/04	2/20/04	33 d	373	605,609
375	SEP FM 1 & FM 2 LVPS Boxes (Priority 2)	0%	23 d	1/29/04	3/2/04	22 d		
376	Complete Design/Drawings for SEP LVPS Boxes	0%	5 d	1/29/04	2/4/04	22 d	371	377,381
377	Fabrication of SEP LVPS Boxes	0%	10 d	2/5/04	2/19/04	50 d	376	378
378	Inspection and Final Assembly of SEP LVPS Boxes	0%	5 d	2/20/04	2/26/04	50 d	377	379
379	Deliver SEP LVPS Boxes to UCB	0%	3 d	2/27/04	3/2/04	50 d	378	128,149
380	SEP Electronics Enclosure (Priority 3)	0%	31 d	2/5/04	3/19/04	22 d		
381	Complete Design/Drawings for SEP Enclosure	0%	13 d	2/5/04	2/24/04	22 d	376	382,386
382	Fabrication of SEP Enclosure	0%	10 d	2/25/04	3/9/04	65 d	381	383
383	Inspection and Final Assembly of SEP Enclosure	0%	5 d	3/10/04	3/16/04	65 d	382	384
384	Deliver SEP Enclosure to CIT	0%	3 d	3/17/04	3/19/04	65 d	383	756,768
385	SEP Central Bias Supply Shields (Priority 4)	0%	20 d	2/25/04	3/23/04	22 d		
386	Complete Design/Drawings for Bias Supply Shields	0%	5 d	2/25/04	3/2/04	22 d	381	387,390
387	Fabrication of Bias Supply Shields	0%	10 d	3/3/04	3/16/04	22 d	386	388
388	Inspection and Delivery (to CIT) of Bias Supply Shields	0%	5 d	3/17/04	3/23/04	22 d	387	442,443
389	LET Telescope (Priority 5)	0%	26 d	3/3/04	4/7/04	25 d		
390	Complete Design/Drawings for LET Telescope	0%	8 d	3/3/04	3/12/04	25 d	386	391,395
391	Fabrication of LET Telescope	0%	10 d	3/15/04	3/26/04	38 d	390	392
392	Inspection and Final Assembly of LET Telescope	0%	5 d	3/29/04	4/2/04	38 d	391	393
393	Deliver LET Telescope to CIT	0%	3 d	4/5/04	4/7/04	38 d	392	518,520
394	HET Electronics Enclosure (Priority 6)	0%	23 d	3/15/04	4/14/04	25 d		
395	Complete Design/Drawings for HET Enclosure	0%	8 d	3/15/04	3/24/04	25 d	390	396
396	Fabrication of HET Enclosure	0%	10 d	3/25/04	4/7/04	25 d	395	397
397	Inspection and Final Assembly of HET Enclosure	0%	5 d	4/8/04	4/14/04	25 d	396	398
398	Deliver HET Enclosure (stays at GSFC)	0%	0 d	4/14/04	4/14/04	25 d	397	402
399	HET Telescope (Priority 7)	0%	61 d	1/27/04	4/21/04	16 d		
400	On Going work for HET Telescope (Complete Design/Drawings & Prep	0%	46 d	1/27/04	3/31/04	16 d		401,405

ID	Task Name	% Comp	Dur	Start	Finish	TS	Pred	Succ
401	Fabrication of HET Telescope	0%	10 d	4/1/04	4/14/04	25 d	400	402
402	Inspection and Final Assembly of HET Telescope	0%	5 d	4/15/04	4/21/04	25 d	401,398	403
403	Deliver HET Telescope (stays at GSFC)	0%	0 d	4/21/04	4/21/04	25 d	402	493,496
404	SIT Telescope (Priority 8)	0%	34 d	4/1/04	5/18/04	16 d		
405	Complete Design/Drawings for SIT Telescope	0%	18 d	4/1/04	4/26/04	16 d	400	406,410
406	Fabrication of SIT Telescope	0%	10 d	4/27/04	5/10/04	16 d	405	407
407	Inspection and Final Assembly of SIT Telescope	0%	5 d	5/11/04	5/17/04	16 d	406	408
408	Deliver SIT Telescope to UMD	0%	1 d	5/18/04	5/18/04	16 d	407	709,691
409	Shipping Containers for HET, SIT & SEP Central (Priority 9)	0%	23 d	4/27/04	5/27/04	23 d		
410	Design	0%	5 d	4/27/04	5/3/04	23 d	405	411,417
411	Fabrication/Machining	0%	10 d	5/4/04	5/17/04	23 d	410	412
412	Inspection and Assembly	0%	5 d	5/18/04	5/24/04	23 d	411	413,414,415
413	HET Container stays at GSFC	0%	0 d	5/24/04	5/24/04	23 d	412	453,454
414	SIT Container to UMD	0%	1 d	5/25/04	5/25/04	25 d	412	594,597
415	SEP Central Container to CIT	0%	3 d	5/25/04	5/27/04	40 d	412	797
416	LET Radiation Test Fixture (Priority 10)	0%	21 d	5/4/04	6/2/04	24 d		
417	Design	0%	5 d	5/4/04	5/10/04	24 d	410	418
418	Fabrication	0%	10 d	5/11/04	5/24/04	24 d	417	419
419	Inspection and Assembly	0%	5 d	5/25/04	6/1/04	24 d	418	420
420	Deliver to CIT for SEP I&T	0%	1 d	6/2/04	6/2/04	24 d	419	766
421	SEP Central - CIT	27%	211 d	8/1/03	6/3/04	26 d		
422	Deliveries	0%	35 d	4/14/04	6/3/04	26 d		
423	Deliver all SEP Cen FM 1 Boards to SEP I&T (stays at CIT)	0%	0 d	4/29/04	4/29/04	36 d	447	756
424	Deliver all SEP Cen FM 2 Boards & FM 2 LVPS to SEP I&T (stays at C	0%	0 d	4/29/04	4/29/04	50 d	447	768
425	SEP Central Build 3 Software Complete	0%	0 d	4/14/04	4/14/04	47 d	449	756,768
426	Final SEP Central Flight Software Complete	0%	0 d	6/3/04	6/3/04	26 d	450	18
427	Logic Board	0%	30 d	2/13/04	3/26/04	29 d		
428	Assembly	0%	10 d	2/13/04	2/27/04	29 d		
429	Assemble FM 1 SEP Central Logic board	0%	10 d	2/13/04	2/27/04	29 d		430SS,432
430	Assemble FM 2 SEP Central Logic board	0%	10 d	2/13/04	2/27/04	29 d	429SS	433
431	Test	0%	20 d	3/1/04	3/26/04	29 d		
432	Test FM 1 SEP Central Logic board (initial)	0%	20 d	3/1/04	3/26/04	29 d	429	445
433	Test FM 2 SEP Central Logic board (initial)	0%	20 d	3/1/04	3/26/04	29 d	430	445
434	Analog/Post-Reg Board	100%	0 d	1/27/04	1/27/04	0 d		
435	FM 1 Analog/Post-Reg Board Complete Test and awaiting Conformal C	100%	0 d	1/27/04	1/27/04	0 d		445
436	FM 2 Analog/Post-Reg Board Complete Test and awaiting Conformal C	100%	0 d	1/27/04	1/27/04	0 d		445
437	SEP Solid State Detector Bias Supply Board	0%	55 d	1/20/04	4/6/04	22 d		
438	Assembly & Initial Test	0%	40 d	1/20/04	3/16/04	27 d		
439	Assemble and Initial Test FM 1 SSD Bias Supply Board	0%	40 d	1/20/04	3/16/04	27 d		440SS,442
440	Assemble and Initial Test FM 2 SSD Bias Supply Board	0%	40 d	1/20/04	3/16/04	27 d	439SS	443

ID	Task Name	% Comp	Dur	Start	Finish	TS	Pred	Succ
441	Final Test	0%	10 d	3/24/04	4/6/04	22 d		
442	Final Test FM 1 SSD Bias Supply Board	0%	10 d	3/24/04	4/6/04	22 d	439,388	445
443	Final Test FM 2 SSD Bias Supply Board	0%	10 d	3/24/04	4/6/04	22 d	440,388	445
444	Conformal Coat, Mass Properties and Bake Out (SEP Central, LET, SEP	0%	17 d	4/7/04	4/29/04	22 d		
445	Stake/Conformal Coat All SEP Central and LET Boards	0%	10 d	4/7/04	4/20/04	22 d	432,433,435,436,442,443,512	446
446	Mass Properties/Photo All SEP Central and LET Boards	0%	4 d	4/21/04	4/26/04	22 d	445	447
447	Bake Out All SEP Central/LET Boards and SEP LVPS (FM 1 & 2)	0%	3 d	4/27/04	4/29/04	22 d	446,77,71	423,424,518,520
448	Flight Software	49%	211 d	8/1/03	6/3/04	26 d		
449	SEP Central Build 3	59%	176 d	8/1/03	4/14/04	26 d		450,425
450	Final Flight S/W Build	0%	35 d	4/15/04	6/3/04	26 d	449	426
451	HET - GSFC	0%	118 d	1/6/04	6/22/04	19 d		
452	Deliveries	0%	37 d	4/30/04	6/22/04	19 d		
453	Deliver HET FM 1 (to CIT for SEP Suite I&T)	0%	2 d	5/28/04	6/1/04	20 d	494,413	760
454	Deliver HET FM 2 (to CIT for SEP Suite I&T)	0%	2 d	6/21/04	6/22/04	19 d	497,413	772
455	Deliver Final HET Flight Software to SEP I&T	0%	2 d	4/30/04	5/3/04	40 d	490	760
456	Detectors	0%	60 d	1/6/04	3/31/04	40 d		
457	Receive & Inspect HET Flight Detectors	0%	40 d	1/6/04	3/3/04	40 d		459SS
458	Detector Testing	0%	60 d	1/6/04	3/31/04	40 d		
459	Capacitance, Current, Depletion, Alpha Resolution Testing	0%	60 d	1/6/04	3/31/04	40 d	457SS	460SS
460	Life Test HET Detectors	0%	60 d	1/6/04	3/31/04	40 d	459SS	493,496
461	Electronics Board	0%	80 d	1/22/04	5/13/04	24 d		
462	Assembly	0%	36 d	1/22/04	3/12/04	24 d		
463	Install Socket on HET Electronics FM 1 Board for ETU ACTEL	0%	1 d	1/22/04	1/22/04	24 d		464
464	Complete Population of HET Electronics FM 1 Board (ETU ACTEL	0%	1 d	1/23/04	1/23/04	24 d	463	468,465
465	Complete Population of HET Electronics FM 2 Board (Flight ACTE	0%	2 d	3/11/04	3/12/04	30 d	464,471,506	477
466	Test	0%	78 d	1/26/04	5/13/04	24 d		
467	FM 1	0%	40 d	1/26/04	3/22/04	24 d		
468	Test HET FM 1 Electronics Board w/ETU ACTEL	0%	20 d	1/26/04	2/23/04	24 d	464	477,469
469	Remove ETU ACTEL and socket from HET FM 1 Electronics	0%	1 d	2/24/04	2/24/04	24 d	468	470
470	Install Flight ACTEL on HET FM 1 Electronics Board	0%	1 d	2/25/04	2/25/04	24 d	469	471
471	Retest HET FM 1 Electronics Board w/Flight ACTEL	0%	10 d	2/26/04	3/10/04	24 d	470	472,465
472	Conformal Coat HET FM 1 Electronics Board	0%	2 d	3/11/04	3/12/04	24 d	471	473
473	Retest Conformal Coated HET FM 1 Electronics Board	0%	2 d	3/15/04	3/16/04	24 d	472	474,479
474	Bakeout HET FM 1 Electronics Board	0%	2 d	3/17/04	3/18/04	24 d	473	475
475	Retest Bakedout HET FM 1 Electronics Board	0%	2 d	3/19/04	3/22/04	24 d	474	481,493,477
476	FM 2	0%	38 d	3/23/04	5/13/04	24 d		
477	Test HET FM 2 Electronics Board	0%	30 d	3/23/04	5/3/04	24 d	465,468,475	478
478	Conformal Coat HET FM 2 Electronics Board	0%	2 d	5/4/04	5/5/04	24 d	477	479
479	Retest Conformal Coated HET FM 2 Electronics Board	0%	2 d	5/6/04	5/7/04	24 d	478,473	480
480	Bakeout HET FM 2 Electronics Board	0%	2 d	5/10/04	5/11/04	24 d	479	481

ID	Task Name	% Comp	Dur	Start	Finish	TS	Pred	Succ
481	Retest Bakedout HET FM 2 Electronics Board	0%	2 d	5/12/04	5/13/04	24 d	480,475	496
482	Flight Software	0%	70 d	1/22/04	4/29/04	19 d		
483	Design	0%	10 d	1/22/04	2/4/04	19 d		
484	Complete Definition of HET PH Event Processing	0%	10 d	1/22/04	2/4/04	19 d		486
485	Coding	0%	20 d	2/5/04	3/4/04	19 d		
486	Code HET PH Event Processing Update for Flight	0%	10 d	2/5/04	2/19/04	19 d	484	487
487	Code HET Telemetry Formatting Update for Flight	0%	10 d	2/20/04	3/4/04	19 d	486	489
488	Test	0%	40 d	3/5/04	4/29/04	19 d		
489	Test Integrated HET S/W with Simulated Data	0%	15 d	3/5/04	3/25/04	19 d	487	490
490	Verify HET On-Board Software	0%	25 d	3/26/04	4/29/04	19 d	489	493,496,455
491	Integration & Test	0%	35 d	4/30/04	6/18/04	19 d		
492	FM 1	0%	20 d	4/30/04	5/27/04	19 d		
493	Integrate HET FM 1 Electronics Telescope (Ahead)	0%	5 d	4/30/04	5/6/04	19 d	475,460,490,403	494,496
494	Test HET FM 1 Telescope (Ahead)	0%	15 d	5/7/04	5/27/04	19 d	493	497,453
495	FM 2	0%	25 d	5/14/04	6/18/04	19 d		
496	Integrate HET FM 2 Electronics Telescope (Behind)	0%	5 d	5/14/04	5/20/04	24 d	481,493,460,490,403	497
497	Test HET FM 2 Telescope (Behind)	0%	15 d	5/28/04	6/18/04	19 d	494,496	454
498	LET - CIT	56%	221 d	7/14/03	5/27/04	36 d		
499	Deliveries	0%	17 d	5/4/04	5/27/04	36 d		
500	Deliver LET FM 1 (stays at CIT for SEP I&T)	0%	0 d	5/27/04	5/27/04	22 d	518	759
501	Deliver LET FM 2 (stays at CIT for SEP I&T)	0%	0 d	5/27/04	5/27/04	36 d	520	771
502	Deliver LET Flight Software Build 3	0%	0 d	5/4/04	5/4/04	39 d	515	759,771
503	Detectors	71%	167 d	7/14/03	3/12/04	56 d		
504	Complete LET Flight Detector Testing	71%	167 d	7/14/03	3/12/04	56 d		518,520
505	Hybrids	72%	144 d	8/1/03	3/1/04	27 d		
506	Complete Test of Flight Hybrids (LET and to GSFC for HET FM 2)	72%	144 d	8/1/03	3/1/04	27 d		509,510,465
507	Detector/Misc Board	0%	21 d	3/2/04	3/30/04	27 d		
508	Assembly	0%	10 d	3/2/04	3/15/04	27 d		
509	Assemble LET FM 1 Detector Board	0%	10 d	3/2/04	3/15/04	27 d	506	512
510	Assemble LET FM 2 Detector Board	0%	10 d	3/2/04	3/15/04	27 d	506	513
511	Test	0%	11 d	3/16/04	3/30/04	27 d		
512	Test LET FM 1 Detector Board	0%	11 d	3/16/04	3/30/04	27 d	509	445
513	Test LET FM 2 Detector Board	0%	11 d	3/16/04	3/30/04	27 d	510	445
514	Flight Software	55%	190 d	8/1/03	5/4/04	39 d		
515	Let Flight Software Build 3	55%	190 d	8/1/03	5/4/04	39 d		502
516	Integration & Test	0%	20 d	4/30/04	5/27/04	22 d		
517	FM 1	0%	20 d	4/30/04	5/27/04	22 d		
518	Integrate LET FM 1 Housing With Detectors	0%	20 d	4/30/04	5/27/04	22 d	504,447,393	500
519	FM 2	0%	20 d	4/30/04	5/27/04	36 d		
520	Integrate LET FM 2 Housing With Detectors	0%	20 d	4/30/04	5/27/04	36 d	504,447,393	501

ID		Task Name	% Comp	Dur	Start	Finish	TS	Pred	Succ
521		SEPT - Kiel/ESTEC	35%	240 d	8/8/03	7/21/04	318 d		
522		Deliveries	0%	102 d	3/1/04	7/21/04	68 d		
523		Deliver SEPT-NS FM 1 to CIT for SEP I&T and Suite EMC	0%	5 d	3/12/04	3/18/04	70 d	567,568	757
524		Deliver SEPT-E FM 1 to CIT for SEP I&T and Suite EMC	0%	5 d	3/1/04	3/5/04	79 d	574,575	757
525		Final Delivery of SEPT FM 1 to APL	0%	2 d	7/20/04	7/21/04	54 d	569,576	7
526		Deliver SEPT-NS FM 2 to CIT for SEP I&T and Suite EMC	0%	5 d	3/8/04	3/12/04	88 d	582,583	769
527		Deliver SEPT-E FM 2 to CIT for SEP I&T and Suite EMC	0%	5 d	3/8/04	3/12/04	88 d	589,590	769
528		Final Delivery of SEPT FM 2 to APL	0%	2 d	7/20/04	7/21/04	68 d	584,591	8
529		Mechanical Assembly	66%	46 d	12/22/03	2/27/04	420 d		
530	✓	FM 1	100%	13 d	12/22/03	1/9/04	0 d		
531	✓	Assemble SEPT-NS FM 1 Sensor and E-Box Housing	100%	13 d	12/22/03	1/9/04	0 d		534SS+4 d,564
532	✓	Assemble SEPT-E FM 1 Sensor and E-Box Housing	100%	13 d	12/22/03	1/9/04	0 d		535SS+4 d,571
533	✓	FM 2	100%	14 d	12/29/03	1/16/04	0 d		
534	✓	Assemble SEPT-NS FM 2 Sensor and E-Box Housing	100%	14 d	12/29/03	1/16/04	0 d	531SS+4 d	537,579
535	✓	Assemble SEPT-E FM 2 Sensor and E-Box Housing	100%	14 d	12/29/03	1/16/04	0 d	532SS+4 d	537,586
536		Spare	0%	28 d	1/20/04	2/27/04	420 d		
537		Assemble SEPT Spare Sensor and E-Box Housing	0%	28 d	1/20/04	2/27/04	420 d	534,535	
538		Electronics	43%	144 d	8/8/03	3/8/04	414 d		
539		Assembly	44%	124 d	8/8/03	2/6/04	414 d		
540	✓	FM 2	100%	106 d	8/8/03	1/12/04	0 d		
541	✓	Assemble SEPT-NS FM 2 Electronics	100%	106 d	8/8/03	1/12/04	0 d		544SS,548
542	✓	Assemble SEPT-E FM 2 Electronics	100%	92 d	8/8/03	12/19/03	0 d		545SS,549FS-7 d
543		Spare	0%	124 d	8/8/03	2/6/04	414 d		
544		Assemble SEPT-NS FS Electronics	0%	124 d	8/8/03	2/6/04	414 d	541SS	555
545		Assemble SEPT-E FS Electronics	0%	124 d	8/8/03	2/6/04	414 d	542SS	556
546		Test	35%	59 d	12/11/03	3/8/04	414 d		
547		FM 2	74%	34 d	12/11/03	1/30/04	439 d		
548	✓	SEPT-NS FM 2 Electronics Test	100%	4 d	1/13/04	1/16/04	0 d	541	550
549	✓	SEPT-E FM 2 Electronics Test	100%	4 d	12/11/03	12/16/03	0 d	542FS-7 d	551
550		Coat SEPT-NS FM 2 Electronics Board	0%	4 d	1/20/04	1/23/04	439 d	548	552
551	✓	Coat SEPT-E FM 2 Electronics Board	100%	5 d	12/17/03	12/23/03	0 d	549	553
552		SEPT-NS FM 2 Mechanical Integration	0%	5 d	1/26/04	1/30/04	439 d	550	
553	✓	SEPT-E FM 2 Mechanical Integration	100%	13 d	12/24/03	1/13/04	0 d	551	
554		Spare	0%	20 d	2/9/04	3/8/04	414 d		
555		SEPT-NS Flight Spare Electronics Test	0%	5 d	2/9/04	2/13/04	414 d	544	557
556		SEPT-E Flight Spare Electronics Test	0%	5 d	2/9/04	2/13/04	414 d	545	558
557		Coat SEPT-NS FS Electronics Board	0%	5 d	2/17/04	2/23/04	414 d	555	559
558		Coat SEPT-E FS Electronics Board	0%	5 d	2/17/04	2/23/04	414 d	556	560
559		SEPT-NS FS Mechanical Integration	0%	10 d	2/24/04	3/8/04	414 d	557	
560		SEPT-E FS Mechanical Integration	0%	10 d	2/24/04	3/8/04	414 d	558	

ID	Task Name	% Comp	Dur	Start	Finish	TS	Pred	Succ
561	Integration & Test	3%	133 d	1/12/04	7/19/04	68 d		
562	FM 1	6%	133 d	1/12/04	7/19/04	54 d		
563	SEPT-NS	0%	124 d	1/26/04	7/19/04	54 d		
564	SEPT-NS FM 1 Integration & Test	0%	5 d	1/26/04	1/30/04	70 d	531	565
565	Muon and Radioactive Source Test	0%	5 d	2/2/04	2/6/04	70 d	564	566
566	SEPT-NS FM 1 Vibration and Acoustics	0%	10 d	2/9/04	2/23/04	70 d	565	567,40SS
567	SEPT-NS FM 1 Thermal Vac	0%	10 d	2/24/04	3/8/04	70 d	566	523,568,41SS
568	SEPT-NS FM 1 Bake Out	0%	3 d	3/9/04	3/11/04	70 d	567	523,42SS
569	SEPT-NS FM 1 Thermal Balance	0%	10 d	7/6/04	7/19/04	54 d	18	525,44SS
570	SEPT-E	12%	133 d	1/12/04	7/19/04	54 d		
571	SEPT-E FM 1 Integration & Test	100%	5 d	1/12/04	1/16/04	0 d	532	572
572	Muon and Radioactive Source Test	0%	5 d	1/20/04	1/26/04	79 d	571	573
573	SEPT-E FM 1 Vibration and Acoustics	0%	10 d	1/27/04	2/9/04	79 d	572	574,40SS
574	SEPT-E FM 1 Thermal Vac	0%	10 d	2/10/04	2/24/04	79 d	573	524,575,41SS
575	SEPT-E FM 1 Bake Out	0%	3 d	2/25/04	2/27/04	79 d	574	524,42SS
576	SEPT-E FM 1 Thermal Balance	0%	10 d	7/6/04	7/19/04	54 d	18	525,44SS
577	FM 2	0%	128 d	1/20/04	7/19/04	68 d		
578	SEPT-NS	0%	128 d	1/20/04	7/19/04	68 d		
579	SEPT-NS FM 2 Integration & Test	0%	5 d	1/20/04	1/26/04	88 d	534	580
580	Muon and Radioactive Source Test	0%	5 d	1/27/04	2/2/04	88 d	579	581
581	SEPT-NS FM 2 Vibration and Acoustics	0%	10 d	2/3/04	2/17/04	88 d	580	582,54SS
582	SEPT-NS FM 2 Thermal Vac	0%	10 d	2/18/04	3/2/04	88 d	581	526,583,55SS
583	SEPT-NS FM 2 Bake Out	0%	3 d	3/3/04	3/5/04	88 d	582	526,56SS
584	SEPT-NS FM 2 Thermal Balance	0%	10 d	7/6/04	7/19/04	68 d	18	528,59SS
585	SEPT-E	0%	128 d	1/20/04	7/19/04	68 d		
586	SEPT-E FM 2 Integration & Test	0%	5 d	1/20/04	1/26/04	88 d	535	587
587	Muon and Radioactive Source Test	0%	5 d	1/27/04	2/2/04	88 d	586	588
588	SEPT-E FM 2 Vibration and Acoustics	0%	10 d	2/3/04	2/17/04	88 d	587	589,54SS
589	SEPT-E FM 2 Thermal Vac	0%	10 d	2/18/04	3/2/04	88 d	588	527,590,55SS
590	SEPT-E FM 2 Bake Out	0%	3 d	3/3/04	3/5/04	88 d	589	527,56SS
591	SEPT-E FM 2 Thermal Balance	0%	10 d	7/6/04	7/19/04	68 d	18	528,59SS
592	SIT - UMD	26%	351 d	6/2/03	10/20/04	255 d		
593	Deliveries	0%	81 d	6/11/04	10/4/04	14 d		
594	Deliver SIT FM 1 to CIT for SEP I&T and Suite EMC	0%	2 d	6/11/04	6/14/04	14 d	414,693	740,764
595	Deliver SIT FM 1 back to GSFC for Environmental Testing (after EMC 1	0%	2 d	7/6/04	7/7/04	29 d	18	718
596	Final Delivery of SIT FM 1 to APL	0%	1 d	8/25/04	8/25/04	29 d	725	7
597	Deliver SIT FM 2 to CIT for SEP I&T	0%	2 d	7/23/04	7/26/04	16 d	698,414	740,776
598	Deliver SIT FM 2 back to GSFC for Environmental Testing	0%	2 d	8/12/04	8/13/04	16 d	790	727
599	Final Delivery of SIT FM 2 to APL	0%	1 d	10/4/04	10/4/04	16 d	734	8
600	Detectors	0%	43 d	1/5/04	3/5/04	42 d		











ID		Task Name	% Comp	Dur	Start	Finish	TS	Pred	Succ
601		Detector Testing	0%	43 d	1/5/04	3/5/04	42 d		
602		FM 1	0%	43 d	1/5/04	3/5/04	33 d		
603		Test FM 1 Solid States Detectors	0%	24 d	1/5/04	2/6/04	42 d		604SS,607SS,605
604		Test FM 1 Foils	0%	24 d	1/5/04	2/6/04	42 d	603SS	608SS,605
605		Alpha Tests FM 1 w/Proto Elect	0%	10 d	2/23/04	3/5/04	33 d	603,604,374	700
606		FM 2	0%	43 d	1/5/04	3/5/04	68 d		
607		Test FM 2 Solid States Detectors	0%	24 d	1/5/04	2/6/04	77 d	603SS	609
608		Test FM 2 Foils	0%	24 d	1/5/04	2/6/04	77 d	604SS	609
609		Alpha Tests FM 2 w/Proto Elect	0%	10 d	2/23/04	3/5/04	68 d	607,608,374	709
610		ACTEL - for SIT Logic Board	0%	11 d	2/27/04	3/12/04	60 d		
611		Burn Final SIT ACTEL Chip (at GSFC)	0%	1 d	2/27/04	2/27/04	60 d		612
612		Evaluate (Test) SIT Final ACTEL Chip	0%	10 d	3/1/04	3/12/04	60 d	611	642,647
613		TOF Boards	0%	20 d	2/17/04	3/15/04	40 d		
614		Receive Analog and Digital TOF Boards (FM 1 & FM 2)	0%	0 d	2/17/04	2/17/04	40 d		617,619
615		Test	0%	20 d	2/17/04	3/15/04	40 d		
616		FM 1	0%	10 d	2/17/04	3/1/04	40 d		
617		FM 1 TOF Boards Functional Test	0%	10 d	2/17/04	3/1/04	40 d	614	619,701
618		FM 2	0%	10 d	3/2/04	3/15/04	65 d		
619		FM 2 TOF Boards Functional Test	0%	10 d	3/2/04	3/15/04	65 d	614,617	710
620		Energy Board	57%	76 d	11/10/03	3/2/04	74 d		
621		Assembly	76%	46 d	11/10/03	1/16/04	89 d		
622		FM 1	76%	46 d	11/10/03	1/16/04	54 d		
623		Assemble FM 1 Energy Board	76%	46 d	11/10/03	1/16/04	54 d		628,625SS
624		FM 2	76%	46 d	11/10/03	1/16/04	89 d		
625		Assemble FM 2 Energy Board	76%	46 d	11/10/03	1/16/04	89 d	623SS	632
626		Test	0%	30 d	1/20/04	3/2/04	54 d		
627		FM 1	0%	15 d	1/20/04	2/9/04	54 d		
628		Bench Test/Calibration	0%	10 d	1/20/04	2/2/04	54 d	623	629
629		Thermal	0%	3 d	2/3/04	2/5/04	54 d	628	630
630		Voltage Margin	0%	2 d	2/6/04	2/9/04	54 d	629	632,701
631		FM 2	0%	15 d	2/10/04	3/2/04	74 d		
632		FM 2 Energy Board Functional Test	0%	15 d	2/10/04	3/2/04	74 d	625,630	710
633		Logic Board	31%	168 d	11/10/03	7/9/04	16 d		
634	✓	Design	100%	3 d	11/17/03	11/19/03	0 d		
635	✓	Layout new Logic Board Design	100%	3 d	11/17/03	11/19/03	0 d		637
636		Fabrication	0%	10 d	2/2/04	2/13/04	14 d		
637		FM 1 & FM 2 Logic Board Fabrication	0%	10 d	2/2/04	2/13/04	14 d	635,651	653
638		Assembly	0%	91 d	3/2/04	7/7/04	14 d		
639		FM 1	0%	58 d	3/2/04	5/20/04	14 d		
640		Assemble FM 1 Logic Board with ETU ACTELs	0%	11 d	3/2/04	3/16/04	14 d	653	655

ID	Task Name	% Comp	Dur	Start	Finish	TS	Pred	Succ
641	Disassemble FM 1 Logic Board with ETU ACTELS	0%	1 d	5/17/04	5/17/04	14 d	707	646SS,642
642	Retrofit/Inspect FM 1 Flight ACTELS	0%	2 d	5/18/04	5/19/04	14 d	641,612	643
643	Reassemble FM 1 Logic Board with Flight ACTELS	0%	1 d	5/20/04	5/20/04	14 d	642	656
644	FM 2	0%	91 d	3/2/04	7/7/04	16 d		
645	Assemble FM 2 Logic Board with ETU ACTELS	0%	11 d	3/2/04	3/16/04	49 d	653	658
646	Disassemble FM 2 Logic Boards	0%	1 d	7/2/04	7/2/04	16 d	716,641SS	647
647	Retrofit/Inspect Flight ACTELS	0%	2 d	7/5/04	7/6/04	16 d	646,612	648
648	Reassemble FM 2 Logic Boards	0%	1 d	7/7/04	7/7/04	16 d	647	659
649	Test	42%	168 d	11/10/03	7/9/04	16 d		
650	ETU	75%	55 d	11/10/03	1/30/04	14 d		
651	Test New ETU Logic Board	75%	55 d	11/10/03	1/30/04	14 d		637
652	FM1 & FM 2	0%	10 d	2/17/04	3/1/04	14 d		
653	Coupon Testing	0%	10 d	2/17/04	3/1/04	14 d	637	640,645
654	FM 1	0%	49 d	3/17/04	5/24/04	14 d		
655	Functional Test of FM 1 Logic Board w/ETU ACTELS	0%	15 d	3/17/04	4/6/04	14 d	640	658,701
656	Functional Test of FM 1 Logic Board w/Flight ACTELS	0%	2 d	5/21/04	5/24/04	14 d	643	689
657	FM 2	0%	67 d	4/7/04	7/9/04	16 d		
658	Functional Test of FM 2 Logic Board w/ETU ACTELS	0%	15 d	4/7/04	4/27/04	34 d	645,655	710
659	Functional Test of FM 2 Logic Board w/Flight ACTELS	0%	2 d	7/8/04	7/9/04	16 d	648	695
660	Mother Board	0%	50 d	12/22/03	3/4/04	42 d		
661	Design	0%	15 d	12/22/03	1/13/04	42 d		
662	FM 1 & FM 2	0%	15 d	12/22/03	1/13/04	42 d		
663	Finalize Mother Board Layout	0%	15 d	12/22/03	1/13/04	42 d		666
664	Fabrication	0%	15 d	1/14/04	2/4/04	42 d		
665	FM 1 & FM 2	0%	15 d	1/14/04	2/4/04	42 d		
666	Fabricate FM 1 & FM 2 Mother Boards	0%	15 d	1/14/04	2/4/04	42 d	663	668,672
667	Assembly	0%	10 d	2/5/04	2/19/04	42 d		
668	Assemble FM 1 Mother Board	0%	10 d	2/5/04	2/19/04	42 d	666	669SS,674
669	Assemble FM 2 Mother Board	0%	10 d	2/5/04	2/19/04	64 d	668SS	676
670	Test	0%	20 d	2/5/04	3/4/04	52 d		
671	FM 1 & FM 2	0%	15 d	2/5/04	2/26/04	421 d		
672	Coupon Testing of Mother Boards	0%	15 d	2/5/04	2/26/04	421 d	666	
673	FM 1	0%	5 d	2/20/04	2/26/04	42 d		
674	Functional Test FM 1 Mother Board	0%	5 d	2/20/04	2/26/04	42 d	668	676,701
675	FM 2	0%	5 d	2/27/04	3/4/04	59 d		
676	Functional Test FM 2 Mother Board	0%	5 d	2/27/04	3/4/04	59 d	669,674	682,710
677	HVPS	0%	62 d	1/12/04	4/8/04	44 d		
678	Test	0%	62 d	1/12/04	4/8/04	44 d		
679	FM 1	0%	10 d	1/12/04	1/26/04	61 d		
680	Functional Test SIT FM 1 HVPS	0%	10 d	1/12/04	1/26/04	61 d	74	700

ID	Task Name	% Comp	Dur	Start	Finish	TS	Pred	Succ
681	FM 2	0%	10 d	3/26/04	4/8/04	44 d		
682	Functional Test SIT FM 2 HVPS	0%	10 d	3/26/04	4/8/04	44 d	80,676	709
683	Flight Software	70%	210 d	6/2/03	4/1/04	44 d		
684	Test	70%	210 d	6/2/03	4/1/04	44 d		
685	FM 1 & FM 2	70%	210 d	6/2/03	4/1/04	44 d		
686	Validate SIT On-Board Code	70%	210 d	6/2/03	4/1/04	44 d		707
687	Integration & Test (using ETU Telescope for FM 1)	0%	98 d	3/8/04	7/22/04	16 d		
688	FM 1 (Flight Telescope)	0%	12 d	5/25/04	6/10/04	14 d		
689	Disassemble SIT FM 1	0%	1 d	5/25/04	5/25/04	14 d	656	690
690	Conformal Coat SIT FM 1 Boards	0%	2 d	5/26/04	5/27/04	14 d	689	691,139SS
691	Reassemble SIT FM 1 with Flight Telescope	0%	1 d	5/28/04	5/28/04	14 d	690,408	692
692	Bench Calibration SIT FM 1 w/Flight Telescope	0%	3 d	6/1/04	6/3/04	14 d	691	693
693	Vacuum Test SIT FM 1 w/Flight Telescope	0%	5 d	6/4/04	6/10/04	14 d	692	594
694	FM 2	0%	9 d	7/12/04	7/22/04	16 d		
695	Disassemble SIT FM 2	0%	1 d	7/12/04	7/12/04	16 d	659	696
696	Conformal Coat SIT FM 2 Boards	0%	2 d	7/13/04	7/14/04	16 d	695	697
697	Reassemble SIT FM 2	0%	1 d	7/15/04	7/15/04	16 d	696	698
698	Post-Coat Retest SIT FM 2	0%	5 d	7/16/04	7/22/04	16 d	697	597
699	FM 1 (ETU Telescope)	0%	50 d	3/8/04	5/14/04	14 d		
700	Integrate SIT FM 1 HVPS and SIT ETU Telescope Without Electr	0%	3 d	3/8/04	3/10/04	33 d	680,605	701
701	Integrate Electronics to SIT ETU Telescope	0%	2 d	4/7/04	4/8/04	14 d	655,617,674,630,700	702
702	SIT FM 1 Debug	0%	5 d	4/9/04	4/15/04	14 d	701	703
703	SIT FM 1 Bench Test	0%	5 d	4/16/04	4/22/04	14 d	702	704
704	SIT FM 1 Alpha TEST	0%	5 d	4/23/04	4/29/04	14 d	703	705
705	SIT FM 1 Noise Removal	0%	5 d	4/30/04	5/6/04	14 d	704	706,714
706	SIT FM 1 Thermal Test	0%	5 d	5/7/04	5/13/04	14 d	705	707
707	SIT FM 1 Functional Test	0%	1 d	5/14/04	5/14/04	14 d	706,686	641
708	FM 2	0%	31 d	5/19/04	7/1/04	16 d		
709	Integrate SIT FM 2 HVPS and SIT FM 2 Telescope Without Electr	0%	3 d	5/19/04	5/21/04	16 d	682,609,408	710
710	Integrate Electronics to SIT FM 2 Telescope	0%	2 d	5/24/04	5/25/04	16 d	658,619,676,632,709	711
711	SIT FM 2 Debug	0%	5 d	5/26/04	6/2/04	16 d	710	712
712	SIT FM 2 Bench Test	0%	5 d	6/3/04	6/9/04	16 d	711	713
713	SIT FM 2 Alpha Test	0%	5 d	6/10/04	6/16/04	16 d	712	714
714	SIT FM 2 Noise Removal	0%	5 d	6/17/04	6/23/04	16 d	713,705	715
715	SIT FM 2 Thermal Test	0%	5 d	6/24/04	6/30/04	16 d	714	716
716	SIT FM 2 Functional Test	0%	1 d	7/1/04	7/1/04	16 d	715	646
717	Environmental Testing at GSFC (FM 1)	0%	34 d	7/8/04	8/24/04	29 d		
718	SIT FM 1 Vibration and Acoustics	0%	10 d	7/8/04	7/21/04	29 d	595	719,49SS
719	Functional Test	0%	1 d	7/22/04	7/22/04	29 d	718	720
720	SIT FM 1 Thermal Balance	0%	5 d	7/23/04	7/29/04	29 d	719	721,50SS

ID	Task Name	% Comp	Dur	Start	Finish	TS	Pred	Succ
721	SIT FM 1 Thermal Vac	0%	10 d	7/30/04	8/12/04	29 d	720	722,51SS
722	Disassemble SIT Instruments	0%	2 d	8/13/04	8/16/04	29 d	721	723
723	Bake Out	0%	3 d	8/17/04	8/19/04	29 d	722	724,52SS
724	Reassemble Instruments	0%	2 d	8/20/04	8/23/04	29 d	723	725
725	Functional Test	0%	1 d	8/24/04	8/24/04	29 d	724	596
726	Environmental Testing at GSFC (FM 2)	0%	34 d	8/16/04	10/1/04	16 d		
727	SIT FM 2 Vibration and Acoustics	0%	10 d	8/16/04	8/27/04	16 d	598	728,63SS
728	Functional Test	0%	1 d	8/30/04	8/30/04	16 d	727	729
729	SIT FM 2 Thermal Balance	0%	5 d	8/31/04	9/7/04	16 d	728	730,64SS
730	SIT FM 2 Thermal Vac	0%	10 d	9/8/04	9/21/04	16 d	729	731,65SS
731	Disassemble SIT Instruments	0%	2 d	9/22/04	9/23/04	16 d	730	732
732	Bake Out	0%	3 d	9/24/04	9/28/04	16 d	731	733,66SS
733	Reassemble Instruments	0%	2 d	9/29/04	9/30/04	16 d	732	734
734	Functional Test	0%	1 d	10/1/04	10/1/04	16 d	733	599
735	Emulators/Simulators/GSE	9%	214 d	12/17/03	10/20/04	255 d		
736	Simulators	13%	80 d	12/17/03	4/12/04	389 d		
737	Labview CPU Ready	13%	80 d	12/17/03	4/12/04	389 d		738SS
738	Test Simulator	13%	80 d	12/17/03	4/12/04	389 d	737SS	
739	GSE	0%	60 d	7/27/04	10/20/04	255 d		
740	Pulse Generator	0%	60 d	7/27/04	10/20/04	255 d	594,597	
741	SEP Suite I&T - CIT	31%	305 d	8/1/03	10/15/04	258 d		
742	ETU	0%	5 d	2/23/04	2/27/04	420 d		
743	Complete Integration/Test of SEP Central EM with Sensors	0%	5 d	2/23/04	2/27/04	420 d		
744	FM 1 & FM 2	0%	154 d	3/8/04	10/12/04	74 d		
745	Software Support For SEP Integration	0%	115 d	4/30/04	10/12/04	261 d	756SS	
746	Generate SEPT integration & test procedure	0%	5 d	3/8/04	3/12/04	75 d	757FS-10 d	758,770
747	Generate LET integration & test procedure	0%	5 d	4/26/04	4/30/04	41 d	758FS-10 d	759,771
748	Generate HET integration & test procedure	0%	5 d	5/19/04	5/25/04	25 d	760FS-10 d	761,773
749	Generate SIT integration & test procedure	0%	5 d	6/2/04	6/8/04	19 d	764FS-10 d	765,777
750	Generate SEP system test procedure	0%	5 d	6/3/04	6/9/04	19 d	765FS-10 d	766,778
751	Software Support For Acceptance Testing of SEP Instruments	0%	27 d	6/17/04	7/23/04	316 d	766SS	
752	Generate SEP-IDPU integration procedure	0%	5 d	5/20/04	5/26/04	21 d	761FS-10 d	753,762,774
753	Generate SEP-IDPU test procedure	0%	5 d	5/27/04	6/3/04	21 d	752	763,775
754	Software Support of SEP Accelerator Tests	0%	20 d	6/22/04	7/19/04	320 d	797SS-10 d	
755	FM 1	0%	66 d	3/19/04	6/21/04	14 d		
756	Integrate/test SEP Central FM 1	0%	5 d	4/30/04	5/6/04	36 d	423,425,384	745SS,758
757	Receive & inspect SEPT FM 1	0%	1 d	3/19/04	3/19/04	70 d	523,524	746FS-10 d,758
758	Integrate & test SEPT FM 1	0%	1 d	5/7/04	5/7/04	36 d	746,756,757	747FS-10 d,759
759	Integrate & test LET FM 1	0%	1 d	5/28/04	5/28/04	22 d	747,758,500,502	761
760	Receive & inspect HET FM 1	0%	1 d	6/2/04	6/2/04	20 d	453,455	748FS-10 d,761

ID	Task Name	% Comp	Dur	Start	Finish	TS	Pred	Succ
761	Integrate & test HET FM 1	0%	1 d	6/3/04	6/3/04	20 d	748,759,760	752FS-10 d,762,765
762	Integrate SEP FM 1 - IDPU FM 1	0%	1 d	6/4/04	6/4/04	20 d	752,761	763
763	Test SEP FM 1 - IDPU FM 1	0%	1 d	6/7/04	6/7/04	20 d	753,762,358	765
764	Receive & inspect SIT FM 1	0%	1 d	6/15/04	6/15/04	14 d	594	749FS-10 d,765
765	Integrate & test SIT FM 1	0%	1 d	6/16/04	6/16/04	14 d	749,761,764,763	750FS-10 d,766
766	SEP system test FM 1	0%	3 d	6/17/04	6/21/04	14 d	750,765,420	751SS,18
767	FM 2	0%	102 d	3/15/04	8/4/04	14 d		
768	Integrate/testSEP Central FM 2	0%	5 d	4/30/04	5/6/04	50 d	424,425,384	770
769	Receive & inspect SEPT FM 2	0%	1 d	3/15/04	3/15/04	88 d	526,527	770
770	Integrate & test SEPT FM 2	0%	1 d	5/7/04	5/7/04	50 d	746,768,769	771
771	Integrate & test LET FM 2	0%	1 d	5/28/04	5/28/04	36 d	747,770,501,502	773
772	Receive & inspect HET FM 2	0%	1 d	6/23/04	6/23/04	19 d	454	773
773	Integrate & test HET FM 2	0%	1 d	6/24/04	6/24/04	19 d	748,771,772	774
774	Integrate SEP FM 2 - IDPU FM 2	0%	1 d	6/25/04	6/25/04	19 d	752,773,165	775
775	Test SEP FM 2 - IDPU FM 2	0%	1 d	6/28/04	6/28/04	19 d	753,774	364,798
776	Receive & inspect SIT FM 2	0%	1 d	7/27/04	7/27/04	16 d	597	777
777	Integrate & test SIT FM 2	0%	1 d	7/30/04	7/30/04	14 d	749,776,791	778
778	SEP FM 2 system test	0%	3 d	8/2/04	8/4/04	14 d	750,777	790
779	Environmental Test (at JPL)	0%	88 d	5/17/04	9/17/04	28 d		
780	Generate Environmental Test Procedures	0%	15 d	5/17/04	6/7/04	46 d		783
781	Manufacture test cables (JPL)	0%	20 d	6/1/04	6/28/04	31 d		783
782	FM 1	0%	45 d	7/16/04	9/17/04	14 d		
783	FM 1 LET/HET/SEP Central Vibration/Acoustics Test	0%	10 d	7/16/04	7/29/04	18 d	18FS+3 d,780,781,797FS+3 d	784,45SS
784	FM 1 LET/HET/SEP Central Thermal Balance Test	0%	5 d	7/30/04	8/5/04	18 d	783	785,46SS
785	FM 1 LET/HET/SEP Central T/V Test	0%	15 d	8/12/04	9/1/04	14 d	784,790	786,788,47SS
786	Evaluate SEP performance	0%	10 d	9/2/04	9/16/04	14 d	785	787SS
787	Generate test reports	0%	11 d	9/2/04	9/17/04	14 d	786SS	
788	Bakeout Clean SEP exterior & prepare for delivery	0%	3 d	9/2/04	9/7/04	21 d	785	48SS,7
789	FM 2	0%	45 d	7/16/04	9/17/04	14 d		
790	FM 2 EMI/EMC Test at CalTech	0%	5 d	8/5/04	8/11/04	14 d	778	598,57SS,785,792
791	FM 2 LET/HET/SEP Central Vibration/Acoustics Test	0%	10 d	7/16/04	7/29/04	14 d	798FS+3 d	60SS,777
792	FM 2 LET/HET/SEP Central T/V Test	0%	15 d	8/12/04	9/1/04	28 d	790	793,795,61SS
793	Evaluate SEP performance	0%	10 d	9/2/04	9/16/04	28 d	792	794SS
794	Generate test reports	0%	11 d	9/2/04	9/17/04	28 d	793SS	
795	Bakeout Clean SEP exterior & prepare for delivery	0%	3 d	9/2/04	9/7/04	35 d	792	62SS,8
796	Accelerator Test (at MSU)	0%	5 d	7/6/04	7/12/04	14 d		
797	FM 1 LET/SEP Cen end-to-end test at Accelerator	0%	5 d	7/6/04	7/12/04	14 d	803,18,415	754SS-10 d,798SS,43SS,783
798	FM 2 LET/SEP Cen end-to-end test at Accelerator	0%	5 d	7/6/04	7/12/04	14 d	797SS,775	58SS,791FS+3 d
799	GSE	55%	305 d	8/1/03	10/15/04	258 d		
800	End-to-End Test Equipment	84%	218 d	8/11/03	6/22/04	23 d		

ID		Task Name	% Comp	Dur	Start	Finish	TS	Pred	Succ
801		Design	95%	192 d	8/11/03	5/14/04	23 d		802
802		Assemble	0%	21 d	5/17/04	6/15/04	23 d	801	803
803		Test	0%	5 d	6/16/04	6/22/04	23 d	802	797
804		GSE software	34%	305 d	8/1/03	10/15/04	258 d		
805		Build GSE software release 2	66%	157 d	8/1/03	3/18/04	281 d		806
806		Write user's guide	0%	8 d	3/22/04	3/31/04	280 d	805	807
807		Build GSE software release 3	0%	117 d	5/3/04	10/15/04	258 d	806	808FS-22 d
808		Write user's guide supplement	0%	22 d	9/15/04	10/15/04	258 d	807FS-22 d	
809		SWEA and SIT Refurbishment (after S/C Environmental Testing)	0%	14 d	9/27/05	10/14/05	0 d		
810		Ship SWEA FM 1 to UCB	0%	3 d	9/27/05	9/29/05	0 d		814
811		Ship (Hand Carry) SIT FM 1 to UMD	0%	1 d	9/27/05	9/27/05	2 d		815
812		Ship SWEA FM 2 to UCB	0%	3 d	10/4/05	10/6/05	1 d		816
813		Ship (Hand Carry) SIT FM 2 to UMD	0%	1 d	10/4/05	10/4/05	3 d		817
814		Vacuum Testing of SWEA FM 1 @ UCB	0%	5 d	9/30/05	10/6/05	0 d	810	818
815		Vacuum Testing of SIT FM 1 @ UMD	0%	5 d	9/28/05	10/4/05	2 d	811	819
816		Vacuum Testing of SWEA FM 2 @ UCB	0%	5 d	10/7/05	10/13/05	1 d	812	
817		Vacuum Testing of SIT FM 2 @ UMD	0%	5 d	10/5/05	10/11/05	3 d	813	
818		Ship SWEA FM 1 & 2 to Launch Site for Re-integration to S/C	0%	3 d	10/7/05	10/11/05	0 d	814	820
819		Ship SIT FM 1 & 2 to Launch Site for Re-integration to S/C	0%	3 d	10/5/05	10/7/05	2 d	815	820
820		Reintegration of SWEA and SIT to S/C (at Launch Site)	0%	3 d	10/12/05	10/14/05	0 d	818,819	