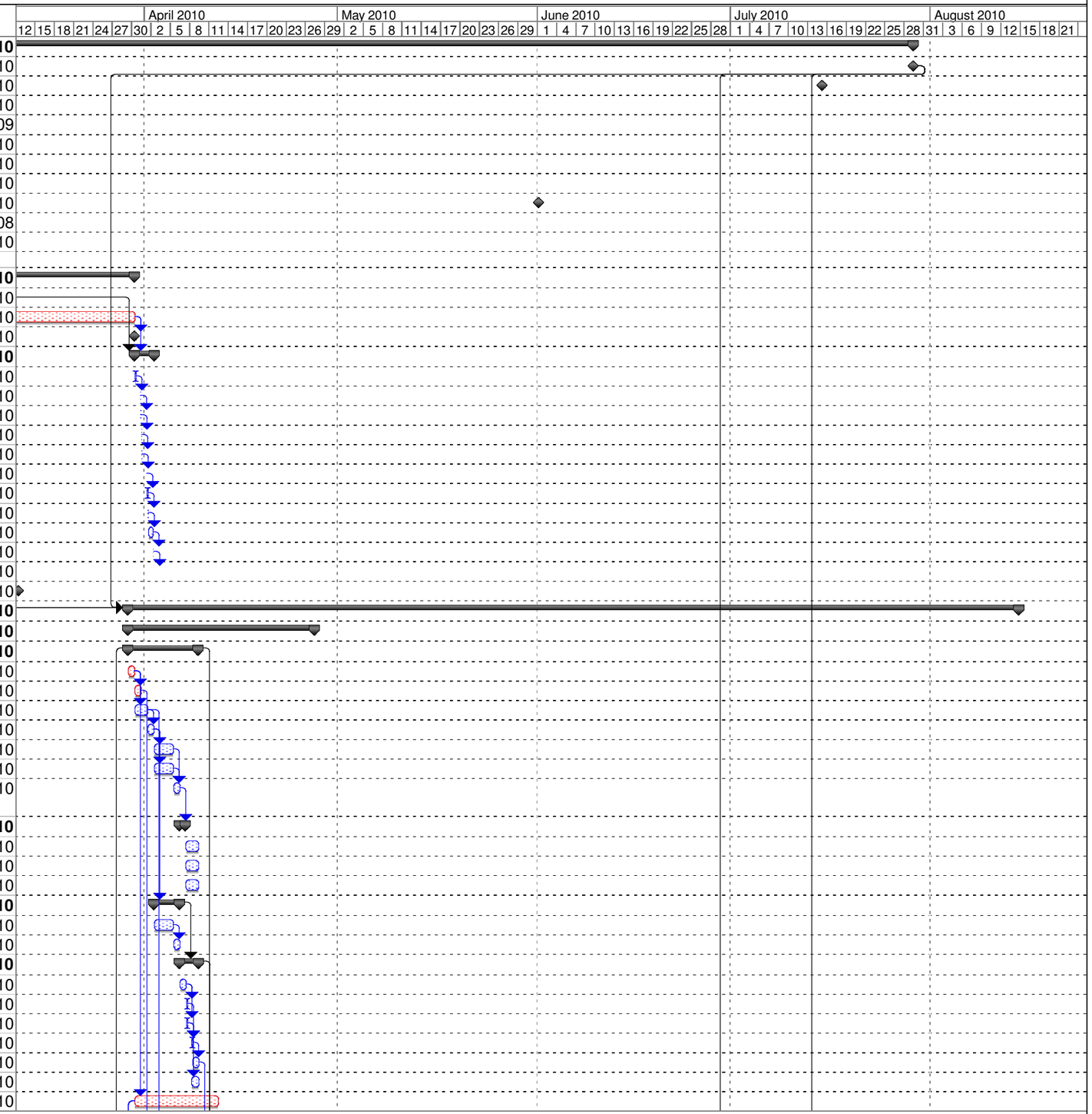
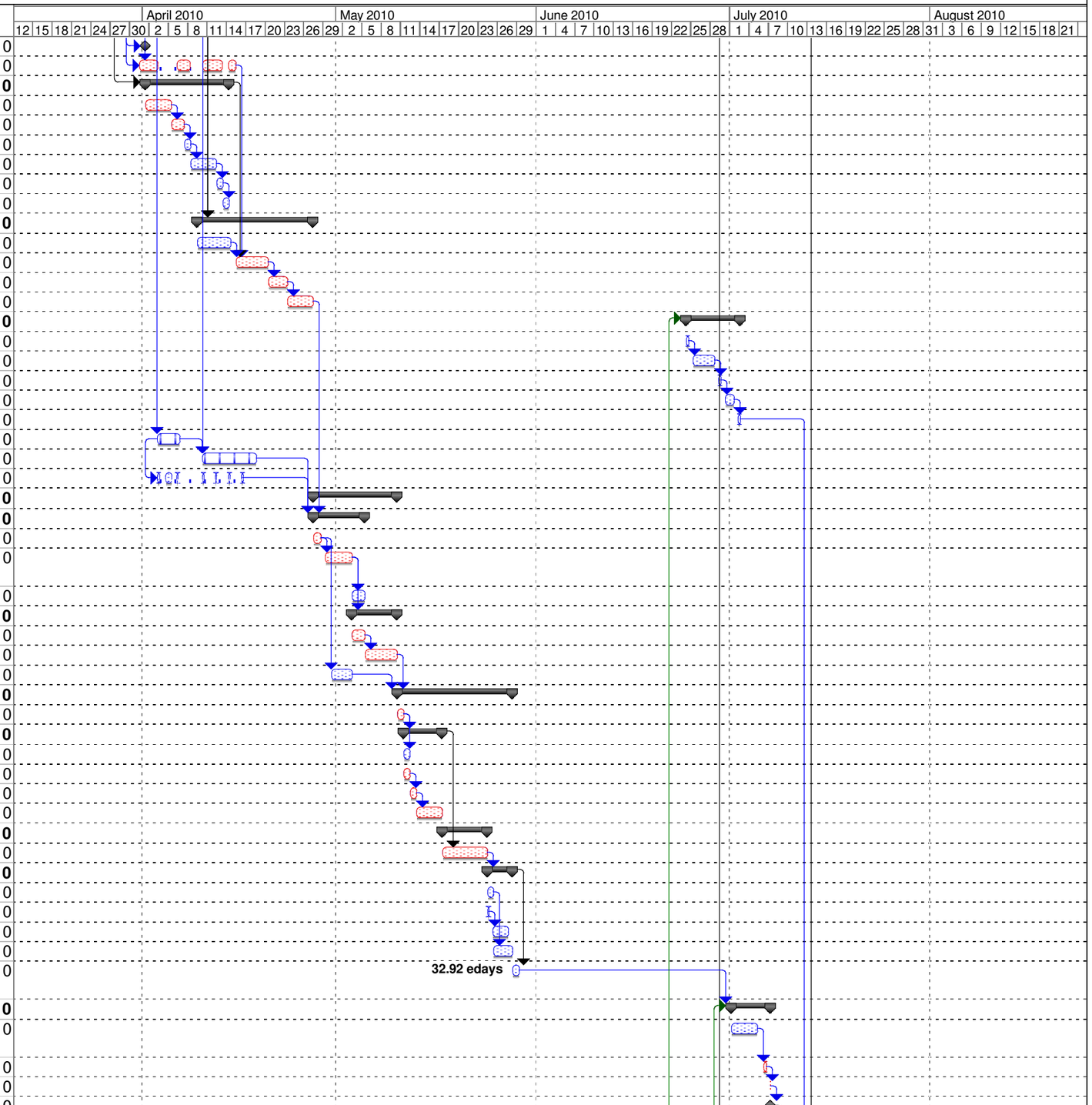
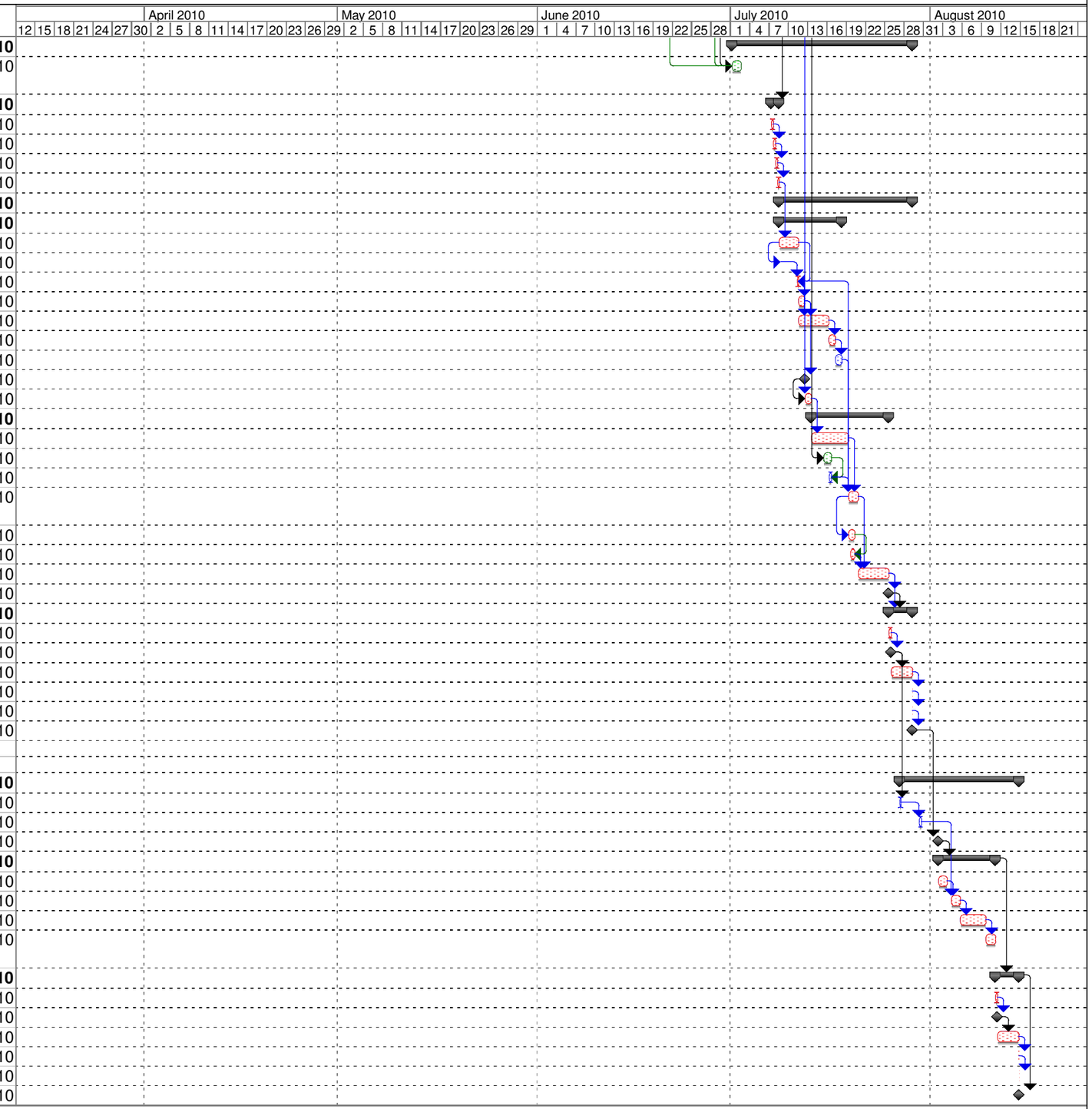
AMS-02 KSC Flight Schedule 9/24/09

ID	Task Name	Duration	Start	Finish
1	**Scheduled Launch**	**458.5 days**	**10/1/08**	**7/29/10**
3	– Launch	0 days	7/29/10	7/29/10
4	FRR	0 days	7/15/10	7/15/10
5	LSSP	0 days	1/29/10	1/29/10
6	PHII V2	0 days	12/1/09	12/1/09
7	PH X V2	0 days	3/1/10	3/1/10
8	GSDP	0 days	1/14/10	1/14/10
9	GSDP Review	0 days	2/28/10	2/28/10
10	LCC Released	0 days	6/1/10	6/1/10
11	Transportation Plan Released (TBD)	0 days	10/1/08	10/1/08
12	Preliminary ADP Review	2 days	3/1/10	3/3/10
13				
14	**KSC Pre Arrival - Setup and Staging (add req. to PDL)**	**21 days?**	**3/9/10**	**3/30/10**
16	All Finishing Goods at KSC	0 days	3/9/10	3/9/10
18	Prep of Facility (?) (could be only 1 week or less)	3 ewks?	3/9/10	3/30/10
21	Hardware Starts Arriving at KSC	0 days	3/30/10	3/30/10
23	**PVGF/FRGF to brackets Integration**	**3.13 days**	**3/30/10**	**4/2/10**
24	Unpack PVGF	0.5 days	3/30/10	3/30/10
25	Set up Table	0.25 days	3/31/10	3/31/10
26	Disassemble PVGF	0.25 days	3/31/10	3/31/10
27	Attach Bracket	0.25 days	3/31/10	3/31/10
28	Attach grounds and test	0.25 days	3/31/10	3/31/10
29	Reassemble PVGF	0.13 days	4/1/10	4/1/10
30	Unpack FRGF	0.5 days	4/1/10	4/1/10
31	Disassemble FRGF	0.25 days	4/1/10	4/1/10
32	Attach Bracket	0.25 days	4/1/10	4/2/10
33	Attach grounds and test	0.25 days	4/2/10	4/2/10
34	Reassemble FRGF	0.25 days	4/2/10	4/2/10
36	AMS Arrives at SSPF (Earliest)	0 days	3/12/10	3/12/10
38	**KSC Time - Planed Arrival**	**136.5 days**	**3/29/10**	**8/14/10**
40	**Kennedy Space Center Off Line**	**29 days**	**3/29/10**	**4/27/10**
42	**AMS-02 Integration SSPF Off Line**	**10.75 days**	**3/29/10**	**4/9/10**
43	Reconfigure PSS to high position	1 day	3/29/10	3/30/10
44	Connect Electronics GSE	1 day	3/30/10	3/31/10
45	Connect Tracker Thermal Cold Plates	2 days	3/30/10	4/1/10
46	Install Lower USS to Upper USS	1 day	4/1/10	4/2/10
47	Attach Lower TOF Z struts (TOF group)	1 day	4/2/10	4/5/10
48	Attach LTOF cabling	1 day	4/2/10	4/5/10
49	Measure RICH Aerogel plane distance to PMT Structure using TOF fiducials.	1 day	4/5/10	4/6/10
50	**LUSS to UUSS Electronics Connection**	**0.75 days**	**4/6/10**	**4/7/10**
57	Test ECAL and RICH including light tightness	2 days	4/7/10	4/9/10
58	Refill TRD Gas - contingency	2 days	4/7/10	4/9/10
59	Refill warm helium supply	2 days	4/7/10	4/9/10
63	**Shuttle Interfaces**	**4 days**	**4/2/10**	**4/6/10**
64	Install handrails, brackets	1 day	4/2/10	4/5/10
65	Install WIF	1 day	4/5/10	4/6/10
69	**Station Interfaces**	**3 days**	**4/6/10**	**4/9/10**
70	Install PAS	1 day	4/6/10	4/7/10
71	Install EVA interface Panel	0.5 days	4/7/10	4/7/10
72	Install Keel	0.5 days	4/7/10	4/7/10
73	Route EVA Interface Panel cables (4X)	0.5 days	4/8/10	4/8/10
74	Install UMA / Alignment	1 day	4/8/10	4/9/10
75	Install EBCS bracket / Alignment	1.5 days	4/8/10	4/9/10
76	Connect / Setup Cryomagnet GSE	9 days	3/30/10	4/12/10



ID	Task Name	Duration	Start	Finish
77	He dewar arrival at SSPF	0 days	4/1/10	4/1/10
79	Cooldown Cryomagnet from 4.2 to 1.8 and top off	9 days	3/31/10	4/15/10
80	**UPS Replacement**	**13 days**	**4/1/10**	**4/14/10**
81	Remove non Flight UPSs	2 days	4/1/10	4/5/10
83	Install Flight UPSs	2 days	4/5/10	4/7/10
85	Recable UPSs	1 day	4/7/10	4/8/10
86	Test Flight UPSs	2 days	4/8/10	4/12/10
87	Reattach MLI	1 day	4/12/10	4/13/10
88	Reattach Debris shield	1 day	4/13/10	4/14/10
92	**Contingency MLI/Testing**	**18 days**	**4/9/10**	**4/27/10**
93	Reinstall Lower USS MLI, Contingency	3.5 days	4/9/10	4/14/10
94	Test AMS with magnet	5 days	4/15/10	4/20/10
96	Contingency (MLI Installation)	3 days	4/20/10	4/23/10
97	Disconnect CGSE (keep 1 Vac Pump)	2 days	4/23/10	4/27/10
99	**CGSE Processing at Pad (date TBD)**	**9 days**	**6/24/10**	**7/2/10**
100	Warm CGSE for Shipment to Pad	1 day	6/24/10	6/24/10
101	Disassemble and pack	2 days	6/25/10	6/28/10
102	Transport	1 day	6/29/10	6/29/10
103	Reassemble	2 days	6/30/10	7/1/10
104	Test	1 day	7/2/10	7/2/10
105	Off Line PRCU testing Thru TCP	4 days	4/3/10	4/6/10
106	Off Line PRCU testing with Medusa Cable w/ UMA (maximum dur	9 days	4/10/10	4/18/10
107	KSC PRCU Test Support (1 wk TBD) PRCU Availability	5 days	4/3/10	4/16/10
108	**SSPF ELC STAND WORK**	**13 days**	**4/27/10**	**5/10/10**
112	**SSPF Off Line (in ELC Stand)**	**8 days**	**4/27/10**	**5/5/10**
113	Install in Express Logistics Carrier Stand (ELC)	1.5 days	4/27/10	4/28/10
114	Install PVGF and terminate cable {create P/N SEG39136093-301 S/N 1001, AMS-02 PVGF CABLE	2.5 days	4/29/10	5/3/10
117	EBCS Alignment	2 days	5/3/10	5/5/10
120	**SSPF On Line (in ELC Stand)**	**7 days**	**5/3/10**	**5/10/10**
121	Payload turnover to KSC	2 days	5/3/10	5/5/10
123	ACASS and UMA Mechanical/Electrical Check	3 days	5/5/10	5/10/10
124	Swap CEWS Stand for PSS in Bay 7 footprint	1.5 days	4/30/10	5/3/10
125	**Transfer to CEWS for Final Flight close outs**	**13.75 days**	**5/10/10**	**5/28/10**
126	Transfer to CEWS	1 day	5/10/10	5/11/10
127	**Go Off Line in CEWS**	**4 days**	**5/11/10**	**5/17/10**
128	CGSE Attachment (off line)	1 eday	5/11/10	5/12/10
129	Install AMS-02 ROEU Arm and ROEU PDA	1 day	5/11/10	5/12/10
130	Cable ROEU PDA to AMS-02	1 day	5/12/10	5/13/10
131	Power Quality Testing	2 days	5/13/10	5/17/10
132	**Go On Line in CEWS**	**5 days**	**5/17/10**	**5/24/10**
133	Perform Payload Rack Checkout Unit (PRCU) Test	5 days	5/17/10	5/24/10
136	**Go Off Line in CEWS**	**3.75 days**	**5/24/10**	**5/28/10**
137	Install FRGF	0.75 days	5/24/10	5/25/10
138	UPS Power Isolation Testing	0.5 days	5/24/10	5/24/10
139	ODA Sim Off line Test	3 days	5/25/10	5/27/10
140	Final MLI reinstallation	3 days	5/25/10	5/28/10
141	Start AMS Checkout and nominal ground ops (Hold and Contingency)	1 eday	5/28/10	5/29/10
142	**Finish Hold for Launch Date**	**4.1 days**	**7/1/10**	**7/7/10**
143	Finish AMS Checkout and nominal ground ops (Hold and Contingency)	96 hrs	7/1/10	7/5/10
144	CGSE detachment OBP running	1 day	7/6/10	7/6/10
145	Weight & CG Test at SSPF	0.1 days	7/7/10	7/7/10
148	Ready for STS Processing / Canister Ops	0 days	7/7/10	7/7/10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150	**Transfer after S0024 (TBC)**	**19 days**	**7/1/10**	**7/29/10**
151	S0024 Hazardous Propellant Load (no people no power except at night possibly)	2 days	7/1/10	7/2/10
153	**Canister and Transport**	**1.53 days**	**7/7/10**	**7/8/10**
154	Install in Canister	0.9 days	7/7/10	7/7/10
155	Move to Canister Rotation Facility (CRF)	1 day	7/7/10	7/8/10
156	AMS Rotate Vertical at CRF	1 day	7/8/10	7/8/10
157	Canister transport to pad. Hoist to mate with PCR	4 hrs	7/8/10	7/8/10
160	**STS Integrated Processing**	**20.38 days**	**7/8/10**	**7/29/10**
161	**Payload Transfer and elec mates**	**9.38 days**	**7/8/10**	**7/18/10**
162	Payload transfer to the PGHM, lower canister	3 days	7/8/10	7/11/10
163	Attach IPA Extensions / EGSE	4 ehrs	7/8/10	7/8/10
164	Rotate RSS, AMS Install Into PLB	4 ehrs	7/11/10	7/11/10
166	Payload Electrical mates / IVT	1 eday	7/11/10	7/12/10
167	IVTs/ETE	4.75 edays	7/11/10	7/16/10
169	TCDT (Terminal Countdown Demonstration Test)	1 eday	7/16/10	7/17/10
172	P/L ETE Test	1 eday	7/17/10	7/18/10
173	AMS Power up	0 days	7/12/10	7/12/10
174	CGSE Attachment	1 day	7/12/10	7/13/10
175	**AMS Ground OPS**	**12.13 days**	**7/13/10**	**7/25/10**
176	AMS SFHe top off and nominal ground ops	5.75 edays	7/13/10	7/19/10
178	Ordinance Install - S5009	1.5 days	7/15/10	7/16/10
179	Pad Clear - S5009	8 ehrs	7/16/10	7/16/10
180	AMS Checkout and nominal ground ops (Hold and Contingency)	1.5 edays	7/19/10	7/20/10
181	S0071 (Hyper/MPS press/closeouts)	24 ehrs	7/19/10	7/20/10
182	Pad Clear - S0071	16 ehrs	7/19/10	7/20/10
183	SFHe top off	4.79 edays	7/20/10	7/25/10
184	SFHe top off complete	0 days	7/25/10	7/25/10
188	**L-88 hrs**	**3.13 days**	**7/25/10**	**7/29/10**
189	Remove CGSE	8 ehrs	7/25/10	7/26/10
191	PB Doors closed	0 edays	7/26/10	7/26/10
192	AMS Checkout and minimal ground ops	79.5 ehrs	7/26/10	7/29/10
193	AMS to minimum Power (Vac pump off (110AC)) L-30	21 emins	7/29/10	7/29/10
194	AMS Power at T0 off / Power via SSP to Baroswitch	9 emins	7/29/10	7/29/10
195	Launch	0 days	7/29/10	7/29/10
196				
197				
202	**Scrub Schedule (TBC)**	**19 days**	**7/27/10**	**8/14/10**
203	Off Load Helium Dewars	0.5 days	7/27/10	7/27/10
204	Fill Master Dewar / Transfer Dewar	1 day	7/30/10	7/30/10
205	L+96H	0 days	8/2/10	8/2/10
206	**Scrub turnaround**	**9 days**	**8/2/10**	**8/11/10**
207	PLBD open	16 hrs	8/2/10	8/3/10
208	Attach CGSE / EGSE	2 days	8/4/10	8/5/10
209	AMS pumping and SFHe top off	4 edays	8/5/10	8/9/10
210	AMS Checkout and nominal ground ops (Hold for Launch Date)	1.5 edays	8/9/10	8/11/10
211	**L-88 hrs**	**4 days**	**8/11/10**	**8/14/10**
212	Remove CGSE / Final PLBD Closure	8 ehrs	8/11/10	8/11/10
213	PB Doors closed	0 edays	8/11/10	8/11/10
214	AMS Checkout and minimal ground ops	79.5 ehrs	8/11/10	8/14/10
215	AMS to minimum Power (Vac pump off (110AC)) L-30	21 emins	8/14/10	8/14/10
216	AMS Power at T0 off / Power via SSP to Baroswitch	9 emins	8/14/10	8/14/10
217	Launch #2	0 days	8/14/10	8/14/10