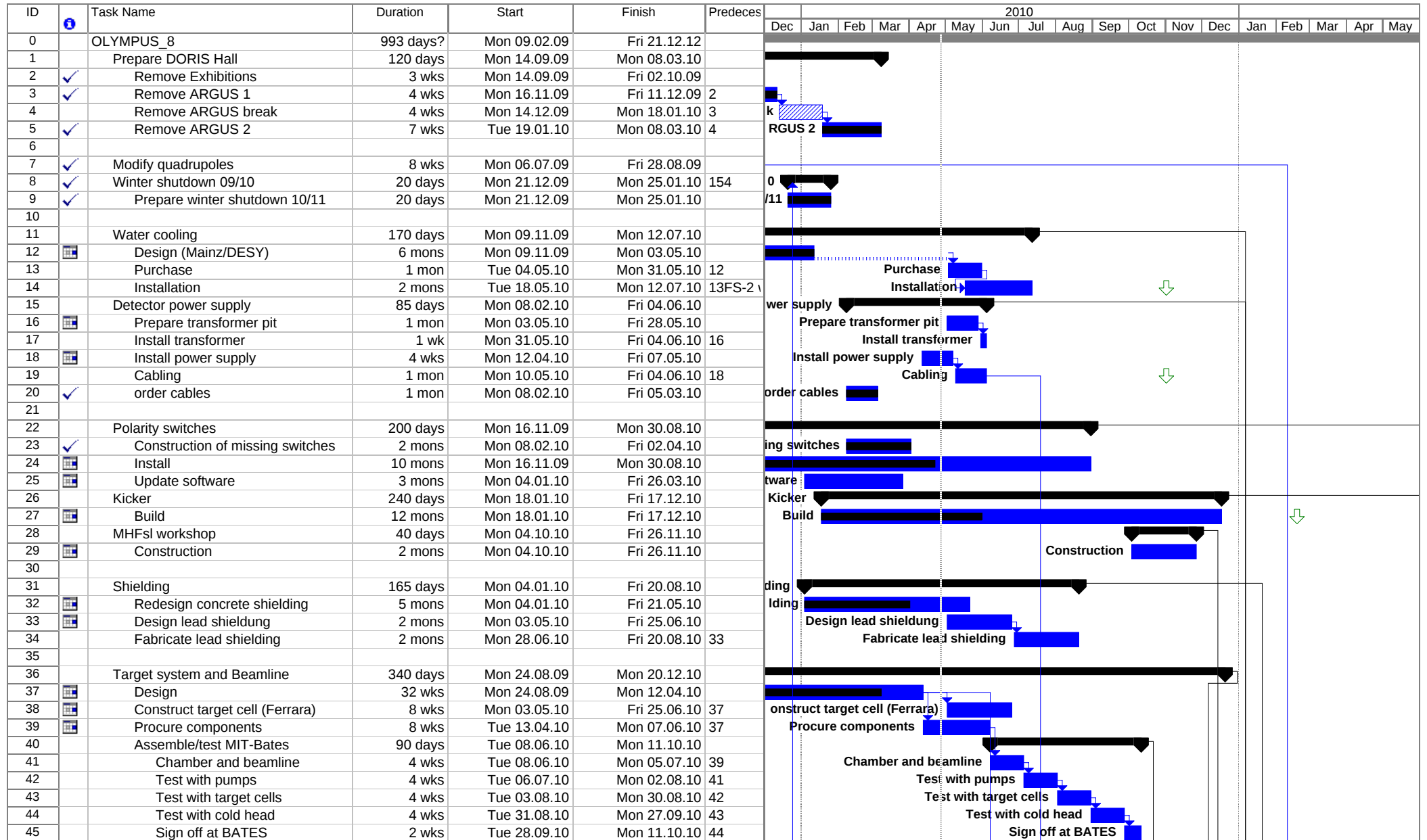
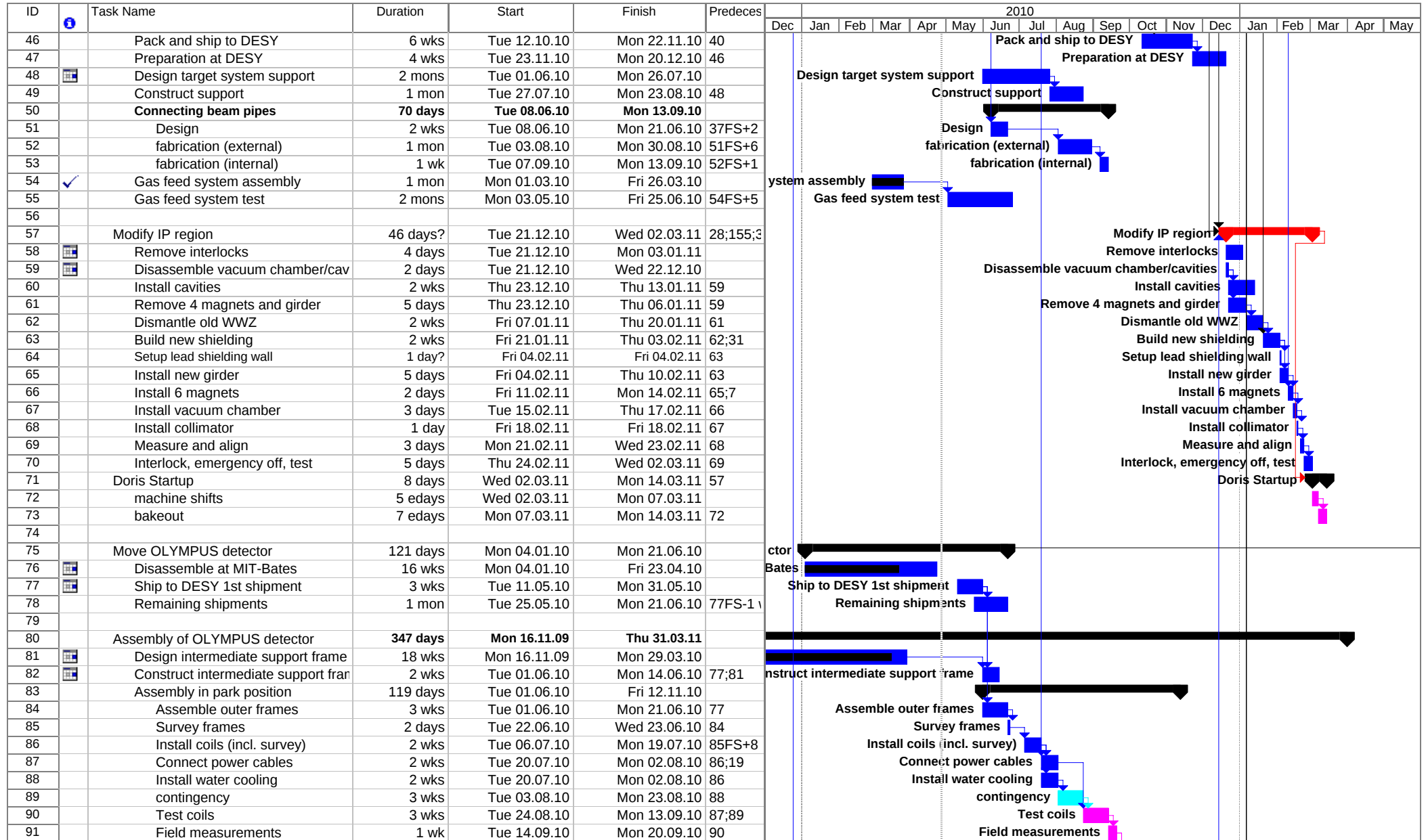






ID	Task Name	Duration	Start	Finish	Predecessors	2010																					
						Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May				
92	Readjust coil position	1 wk	Tue 21.09.10	Mon 27.09.10	91																						
93	Assemble subdetector frames	2 days	Tue 28.09.10	Wed 29.09.10	92																						
94	Test PMT/TOFs	1 mon	Mon 02.08.10	Fri 27.08.10																							
95	Install TOFs	1 wk	Thu 30.09.10	Wed 06.10.10	94;93																						
96	Install gas sytem and pipes	1 wk	Thu 07.10.10	Wed 13.10.10	95																						
97	Route detector signal cables	1 wk	Tue 21.09.10	Mon 27.09.10	91																						
98	Install wire chambers	2 days	Tue 12.10.10	Wed 13.10.10	131;97																						
99	Survey and adjust wire chambe	2 days	Thu 14.10.10	Fri 15.10.10	98																						
100	Wire chamber test with cosmics	1 mon	Mon 18.10.10	Fri 12.11.10	99																						
101																											
102	Commission detector components	12 wks	Thu 07.10.10	Thu 06.01.11	95																						
103	Test with toroid	12 wks	Fri 07.01.11	Thu 31.03.11	102;11;1																						
104																											
105	Install OLYMPUS	25 days	Mon 11.07.11	Fri 12.08.11	119;156;																						
106	Disassemble interlocks	3 days	Mon 11.07.11	Wed 13.07.11																							
107	Remove shielding	3 days	Thu 14.07.11	Mon 18.07.11	106																						
108	Remove beamline	2 days	Tue 19.07.11	Wed 20.07.11	107																						
109	Roll in detector	1 day	Thu 21.07.11	Thu 21.07.11	108																						
110	Install cooling	2 days	Fri 22.07.11	Mon 25.07.11	109																						
111	Connect power supply	2 days	Tue 26.07.11	Wed 27.07.11	110																						
112	Install target chamber	1 day	Fri 22.07.11	Fri 22.07.11	109																						
113	Survey	2 days	Mon 25.07.11	Tue 26.07.11	112																						
114	Build shielding	3 days	Wed 27.07.11	Fri 29.07.11	113;144																						
115	Install interlocks, etc.	3 days	Mon 01.08.11	Wed 03.08.11	114																						
116	Test interlocks, etc.	2 days	Thu 04.08.11	Fri 05.08.11	115																						
117	Setup with DORIS	5 days	Mon 08.08.11	Fri 12.08.11	116																						
118																											
119	GEM Tracker	270 days	Mon 01.03.10	Mon 21.03.11																							
120	Design	16 wks	Mon 01.03.10	Fri 18.06.10																							
121	Produce	32 wks	Mon 21.06.10	Mon 07.02.11	120																						
122	Test	4 wks	Tue 08.02.11	Mon 07.03.11	121																						
123	Pack and ship to DESY	2 wks	Tue 08.03.11	Mon 21.03.11	122																						
124																											
125	Wire Chambers	181 days	Mon 01.02.10	Mon 11.10.10																							
126	Check out wire chambers	1 mon	Mon 01.02.10	Fri 26.02.10																							
127	ship wire chambers	3 wks	Tue 11.05.10	Mon 31.05.10																							
128	prepare clean room at DESY	1 mon	Mon 19.04.10	Fri 14.05.10																							
129	Wire chamber preparation	1 wk	Tue 01.06.10	Mon 07.06.10	127																						
130	String wires	4 mons	Tue 08.06.10	Mon 27.09.10	129																						
131	Wire chamber HV test	2 wks	Tue 28.09.10	Mon 11.10.10	130																						
132																											
133																											
134	GEM Lumi Monitor	400 days	Mon 04.01.10	Mon 25.07.11																							
135	Finalize design	5 mons	Mon 04.01.10	Fri 21.05.10																							
136	Purchase GEM parts	2 mons	Mon 26.04.10	Fri 18.06.10	135FS-1																						
137	Assembly	2 mons	Mon 21.06.10	Fri 13.08.10	136																						

ID		Task Name	Duration	Start	Finish	Precedes	2010																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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138		Testing with cosmics, sources	2 mons	Mon 16.08.10	Fri 08.10.10	137																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</

ID	Task Name	Duration	Start	Finish	2011							2012																	
					Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec						
0	 OLYMPUS_8	993 days?	Mon 09.02.09	Fri 21.12.12																									
1	Prepare DORIS Hall	120 days	Mon 14.09.09	Mon 08.03.10																									
2	 Remove Exhibitions	3 wks	Mon 14.09.09	Fri 02.10.09																									
3	 Remove ARGUS 1	4 wks	Mon 16.11.09	Fri 11.12.09																									
4	Remove ARGUS break	4 wks	Mon 14.12.09	Mon 18.01.10																									
5	 Remove ARGUS 2	7 wks	Tue 19.01.10	Mon 08.03.10																									
6																													
7	 Modify quadrupoles	8 wks	Mon 06.07.09	Fri 28.08.09																									
8	 Winter shutdown 09/10	20 days	Mon 21.12.09	Mon 25.01.10																									
9	 Prepare winter shutdown 10/11	20 days	Mon 21.12.09	Mon 25.01.10																									
10																													
11	Water cooling	170 days	Mon 09.11.09	Mon 12.07.10																									
12	 Design (Mainz/DESY)	6 mons	Mon 09.11.09	Mon 03.05.10																									
13	Purchase	1 mon	Tue 04.05.10	Mon 31.05.10																									
14	Installation	2 mons	Tue 18.05.10	Mon 12.07.10																									
15	Detector power supply	85 days	Mon 08.02.10	Fri 04.06.10																									
16	 Prepare transformer pit	1 mon	Mon 03.05.10	Fri 28.05.10																									
17	Install transformer	1 wk	Mon 31.05.10	Fri 04.06.10																									
18	 Install power supply	4 wks	Mon 12.04.10	Fri 07.05.10																									
19	Cabling	1 mon	Mon 10.05.10	Fri 04.06.10																									
20	 order cables	1 mon	Mon 08.02.10	Fri 05.03.10																									
21																													
22	Polarity switches	200 days	Mon 16.11.09	Mon 30.08.10																									
23	 Construction of missing switches	2 mons	Mon 08.02.10	Fri 02.04.10																									
24	 Install	10 mons	Mon 16.11.09	Mon 30.08.10																									
25	 Update software	3 mons	Mon 04.01.10	Fri 26.03.10																									
26	Kicker	240 days	Mon 18.01.10	Fri 17.12.10																									
27	 Build	12 mons	Mon 18.01.10	Fri 17.12.10																									
28	MHFSI workshop	40 days	Mon 04.10.10	Fri 26.11.10																									
29	 Construction	2 mons	Mon 04.10.10	Fri 26.11.10																									
30																													
31	Shielding	165 days	Mon 04.01.10	Fri 20.08.10																									
32	 Redesign concrete shielding	5 mons	Mon 04.01.10	Fri 21.05.10																									
33	 Design lead shielding	2 mons	Mon 03.05.10	Fri 25.06.10																									
34	Fabricate lead shielding	2 mons	Mon 28.06.10	Fri 20.08.10																									
35																													
36	Target system and Beamline	340 days	Mon 24.08.09	Mon 20.12.10																									
37	 Design	32 wks	Mon 24.08.09	Mon 12.04.10																									
38	 Construct target cell (Ferrara)	8 wks	Mon 03.05.10	Fri 25.06.10																									
39	 Procure components	8 wks	Tue 13.04.10	Mon 07.06.10																									
40	Assemble/test MIT-Bates	90 days	Tue 08.06.10	Mon 11.10.10																									
41	Chamber and beamline	4 wks	Tue 08.06.10	Mon 05.07.10																									
42	Test with pumps	4 wks	Tue 06.07.10	Mon 02.08.10																									
43	Test with target cells	4 wks	Tue 03.08.10	Mon 30.08.10																									
44	Test with cold head	4 wks	Tue 31.08.10	Mon 27.09.10																									
45	Sign off at BATES	2 wks	Tue 28.09.10	Mon 11.10.10																									

ID	Task Name	Duration	Start	Finish	2011								2012																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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46	Pack and ship to DESY	6 wks	Tue 12.10.10	Mon 22.11.10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

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93		Assemble subdetector frames	2 days	Tue 28.09.10	Wed 29.09.10																								
94		Test PMT/TOFs	1 mon	Mon 02.08.10	Fri 27.08.10																								
95		Install TOFs	1 wk	Thu 30.09.10	Wed 06.10.10																								
96		Install gas sytem and pipes	1 wk	Thu 07.10.10	Wed 13.10.10																								
97		Route detector signal cables	1 wk	Tue 21.09.10	Mon 27.09.10																								
98		Install wire chambers	2 days	Tue 12.10.10	Wed 13.10.10																								
99		Survey and adjust wire chambe	2 days	Thu 14.10.10	Fri 15.10.10																								
100		Wire chamber test with cosmics	1 mon	Mon 18.10.10	Fri 12.11.10																								
101																													
102		Commission detector components	12 wks	Thu 07.10.10	Thu 06.01.11	PUS locks ielding eamline detector l cooling er supply chamber Survey shielding locks, etc. locks, etc. with DORIS																							
103		Test with toroid	12 wks	Fri 07.01.11	Thu 31.03.11																								
104																													
105		Install OLYMPUS	25 days	Mon 11.07.11	Fri 12.08.11																								
106		Disassemble interlocks	3 days	Mon 11.07.11	Wed 13.07.11																								
107		Remove shielding	3 days	Thu 14.07.11	Mon 18.07.11																								
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109		Roll in detector	1 day	Thu 21.07.11	Thu 21.07.11																								
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111		Connect power supply	2 days	Tue 26.07.11	Wed 27.07.11																								
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