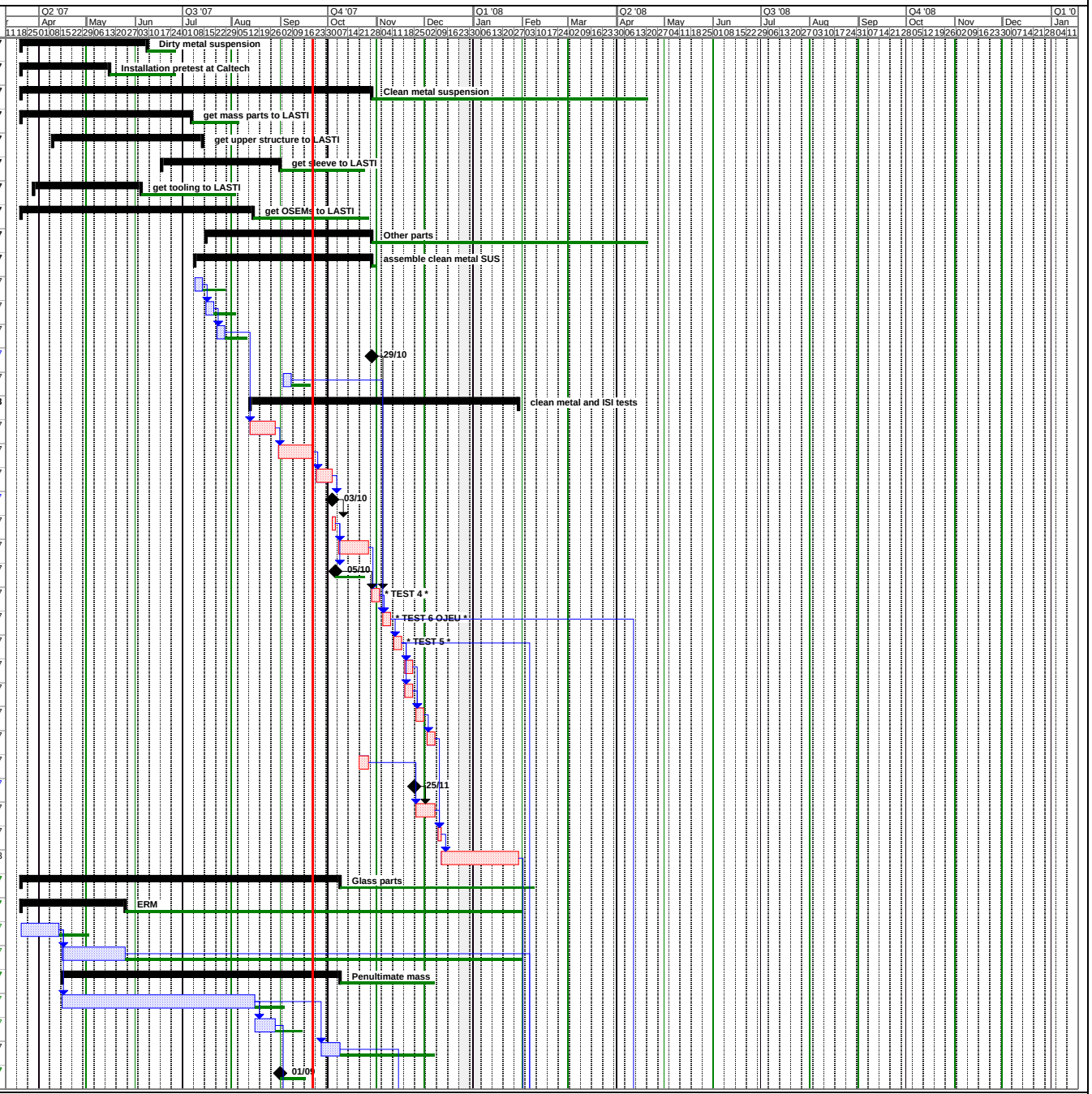
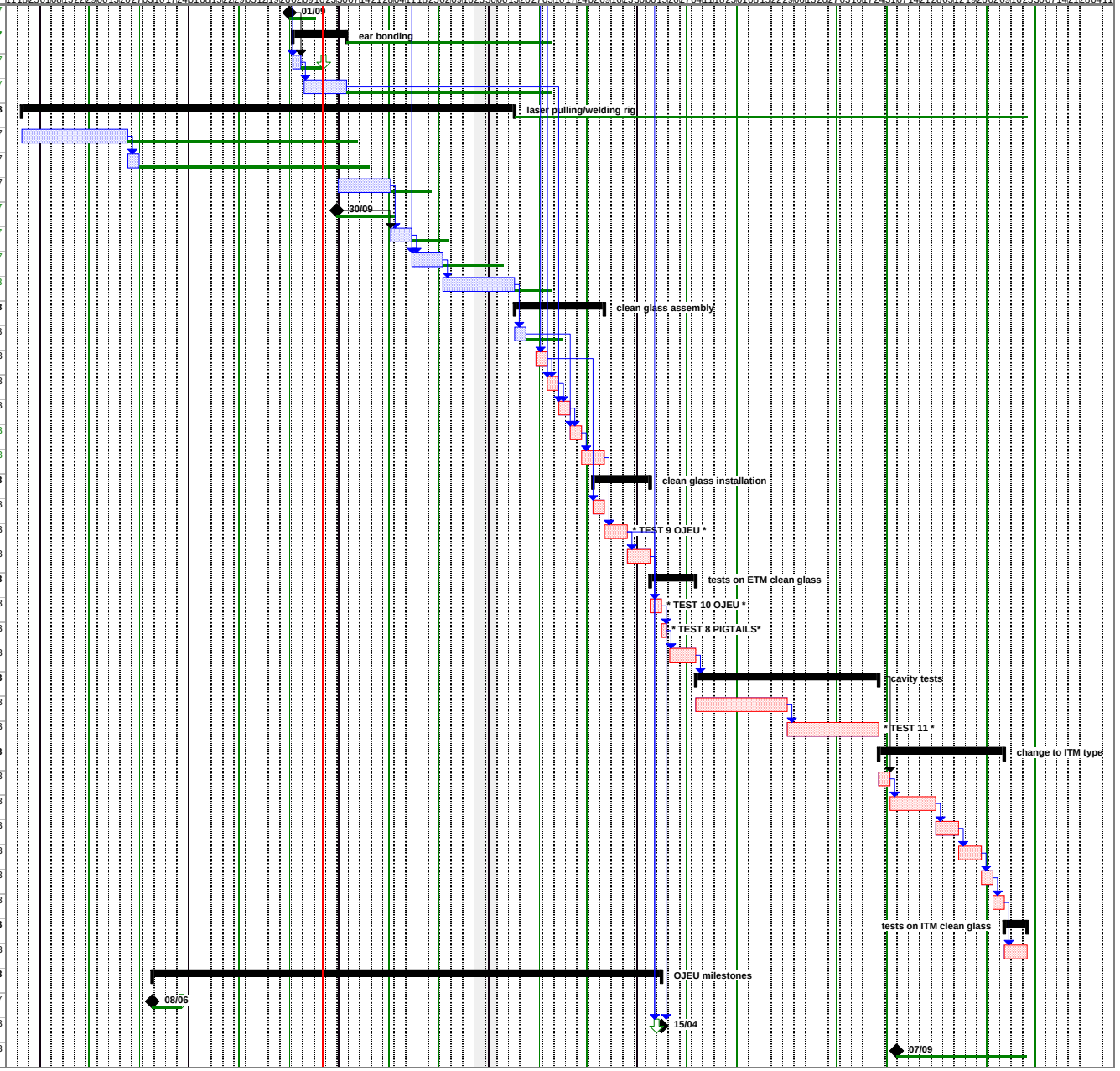
ID		M060304	Task Name	Duration	Start	Finish
1			**Dirty metal suspension**	**58 days?**	**Wed 21/03/07**	**Fri 08/06/07**
6			**Installation pretest at Caltech**	**40 days**	**Wed 21/03/07**	**Tue 15/05/07**
9			**Clean metal suspension**	**158 days**	**Wed 21/03/07**	**Mon 29/10/07**
10			**get mass parts to LASTI**	**78 days**	**Wed 21/03/07**	**Fri 06/07/07**
17			**get upper structure to LASTI**	**69 days**	**Tue 10/04/07**	**Fri 13/07/07**
21			**get sleeve to LASTI**	**55 days**	**Mon 18/06/07**	**Fri 31/08/07**
25			**get tooling to LASTI**	**48 days**	**Thu 29/03/07**	**Mon 04/06/07**
28			**get OSEMs to LASTI**	**105 days**	**Wed 21/03/07**	**Tue 14/08/07**
34			**Other parts**	**75 days**	**Mon 16/07/07**	**Mon 29/10/07**
41			**assemble clean metal SUS**	**80 days**	**Mon 09/07/07**	**Mon 29/10/07**
42		1.16/17/19	assemble masses part 1 (helicoil)	1 wk	Mon 09/07/07	Fri 13/07/07
43		1.15/21/22/24	assemble masses part 2	1 wk	Mon 16/07/07	Fri 20/07/07
44		1.20/22/23/33/35/38	suspend and then lock down	1 wk	Mon 23/07/07	Fri 27/07/07
45		1.37	fit OSEMS (latest) no read out	0 days	Mon 29/10/07	Mon 29/10/07
46		1.15	fit sleeve	1 wk	Mon 03/09/07	Fri 07/09/07
47			**clean metal and ISI tests**	**112 days**	**Mon 13/08/07**	**Tue 29/01/08**
48		1.40/42	Assemble clean metal SUS to ISI	12 days	Mon 13/08/07	Tue 28/08/07
49			Use SUS as ISI payload and trim ISI	16 days	Fri 31/08/07	Fri 21/09/07
50			Align SUS on ISI	8 days	Mon 24/09/07	Wed 03/10/07
51		1.39/41	cable SUS (latest)	0 days	Wed 03/10/07	Wed 03/10/07
52			align OSEMs using triple electronics	2 days	Thu 04/10/07	Fri 05/10/07
53			SEI testing with SUS attached	3 wks	Mon 08/10/07	Fri 26/10/07
54			placeholder	0 days	Fri 05/10/07	Fri 05/10/07
55			check SUS sys ID using triple electronics	5 days	Mon 29/10/07	Fri 02/11/07
56			test ISI/SUS for frequency	5 days	Mon 05/11/07	Fri 09/11/07
57			Test lower stage OSEMs	5 days	Mon 12/11/07	Fri 16/11/07
58			split SUS 3+ 1	5 days	Mon 19/11/07	Fri 23/11/07
59		1.18	Remove controls quad from tank	5 days	Mon 19/11/07	Fri 23/11/07
60		1.25	insert ISI + upper structure to tank	5 days	Mon 26/11/07	Fri 30/11/07
61		1.34	insert lower structure to tank	5 days	Mon 03/12/07	Fri 07/12/07
62			early integration of Bham electronics	5 days	Sun 21/10/07	Fri 26/10/07
63			BHAm electronics deliveries complete	0 days	Sun 25/11/07	Sun 25/11/07
64			finish integration of Bham electronics	10 days	Mon 26/11/07	Fri 07/12/07
65			get quad properly finaly aligned ready for testing	2 days	Mon 10/12/07	Tue 11/12/07
66			ISI control tests in vacuo with metal SUS	25 days	Wed 12/12/07	Tue 29/01/08
67			**Glass parts**	**144 days?**	**Wed 21/03/07**	**Mon 08/10/07**
68			**ERM**	**48 days**	**Wed 21/03/07**	**Fri 25/05/07**
69			polish ERM	3.6 wks	Wed 21/03/07	Fri 13/04/07
70		1.9	ship - coat ERM - ship	6 wks	Mon 16/04/07	Fri 25/05/07
71			**Penultimate mass**	**126 days?**	**Mon 16/04/07**	**Mon 08/10/07**
72			polish PU	17.6 wks	Mon 16/04/07	Wed 15/08/07
73			ship PU to LASTI	1.8 wks	Thu 16/08/07	Tue 28/08/07
74			Ship second PU to LASTI	8 days?	Thu 27/09/07	Mon 08/10/07
75			**test mass**	**0 days**	**Sat 01/09/07**	**Sat 01/09/07**



ID		M060304	Task Name	Duration	Start	Finish
76			test mass reaches LASTI	0 days	Sat 01/09/07	Sat 01/09/07
77			**ear bonding**	**25 days**	**Mon 03/09/07**	**Fri 05/10/07**
78		1.12/31	bond ears to TM and PU	1 wk	Mon 03/09/07	Fri 07/09/07
79			ears cure	4 wks	Mon 10/09/07	Fri 05/10/07
80			**laser pulling/welding rig**	**206 days**	**Wed 21/03/07**	**Wed 16/01/08**
81			complete purchase of parts	9.4 wks	Wed 21/03/07	Thu 24/05/07
82			check LPW parts at RAL	1 wk	Fri 25/05/07	Thu 31/05/07
83			ship LPW to LASTI	4.8 wks	Mon 01/10/07	Thu 01/11/07
84			LPW R&D complete	0 days	Sun 30/09/07	Sun 30/09/07
85		1.26/28	assemble LPW rig at LASTI	1.8 wks	Fri 02/11/07	Wed 14/11/07
86		1.29	commission LPW rig at LASTI	2.6 wks	Thu 15/11/07	Mon 03/12/07
87			practice pulling and welding at LASTI	4.4 wks	Tue 04/12/07	Wed 16/01/08
88			**clean glass assembly**	**39 days**	**Thu 17/01/08**	**Tue 11/03/08**
89			pull ribbons	1 wk	Thu 17/01/08	Wed 23/01/08
90		1.11	remove lower structure from tank	5 days	Wed 30/01/08	Tue 05/02/08
91		1.30	remove metal masses from lower SUS	1 wk	Wed 06/02/08	Tue 12/02/08
92		1.13	insert glass masses	1 wk	Wed 13/02/08	Tue 19/02/08
93			weld ribbons	1 wk	Wed 20/02/08	Tue 26/02/08
94			assemble clean glass SUS	2 wks	Wed 27/02/08	Tue 11/03/08
95			**clean glass installation**	**25 days**	**Wed 05/03/08**	**Tue 08/04/08**
96			remove ISI from tank (if required)	5 days	Wed 05/03/08	Tue 11/03/08
97		1.45	assemble clean glass lower to upper SUS	2 wks	Wed 12/03/08	Tue 25/03/08
98			install glass/ISI to tank (if required)	2 wks	Wed 26/03/08	Tue 08/04/08
99			**tests on ETM clean glass**	**20 days**	**Wed 09/04/08**	**Tue 06/05/08**
100		1.46	heating test	1 wk	Wed 09/04/08	Tue 15/04/08
101			Pigtail shielding test	3 days	Wed 16/04/08	Fri 18/04/08
102			ESD damping test	12 days	Mon 21/04/08	Tue 06/05/08
103			**cavity tests**	**80 days**	**Wed 07/05/08**	**Tue 26/08/08**
104			form cavity	40 days	Wed 07/05/08	Tue 01/07/08
105			do tests	40 days	Wed 02/07/08	Tue 26/08/08
106			**change to ITM type**	**55 days**	**Wed 27/08/08**	**Tue 11/11/08**
107			remove ETM SUS from tank	1 wk	Wed 27/08/08	Tue 02/09/08
108			split suspension, remove reaction lower chain	4 wks	Wed 03/09/08	Tue 30/09/08
109		1.32	install CP	2 wks	Wed 01/10/08	Tue 14/10/08
110			reassemble SUS in CP mode	2 wks	Wed 15/10/08	Tue 28/10/08
111		1.44	install ITM sus to ISI	1 wk	Wed 29/10/08	Tue 04/11/08
112			isntall ITM SUS/ISI to tank	1 wk	Wed 05/11/08	Tue 11/11/08
113			**tests on ITM clean glass**	**10 days**	**Wed 12/11/08**	**Tue 25/11/08**
114			test ring heaters	2 wks	Wed 12/11/08	Tue 25/11/08
115			**OJEU milestones**	**212 days**	**Fri 08/06/07**	**Tue 15/04/08**
116		1.47	ready for OJEU start	0 days	Fri 08/06/07	Fri 08/06/07
117		1.48	ready to place major contracts	0 days	Tue 15/04/08	Tue 15/04/08
118			dummy task	0 days	Sun 07/09/08	Sun 07/09/08