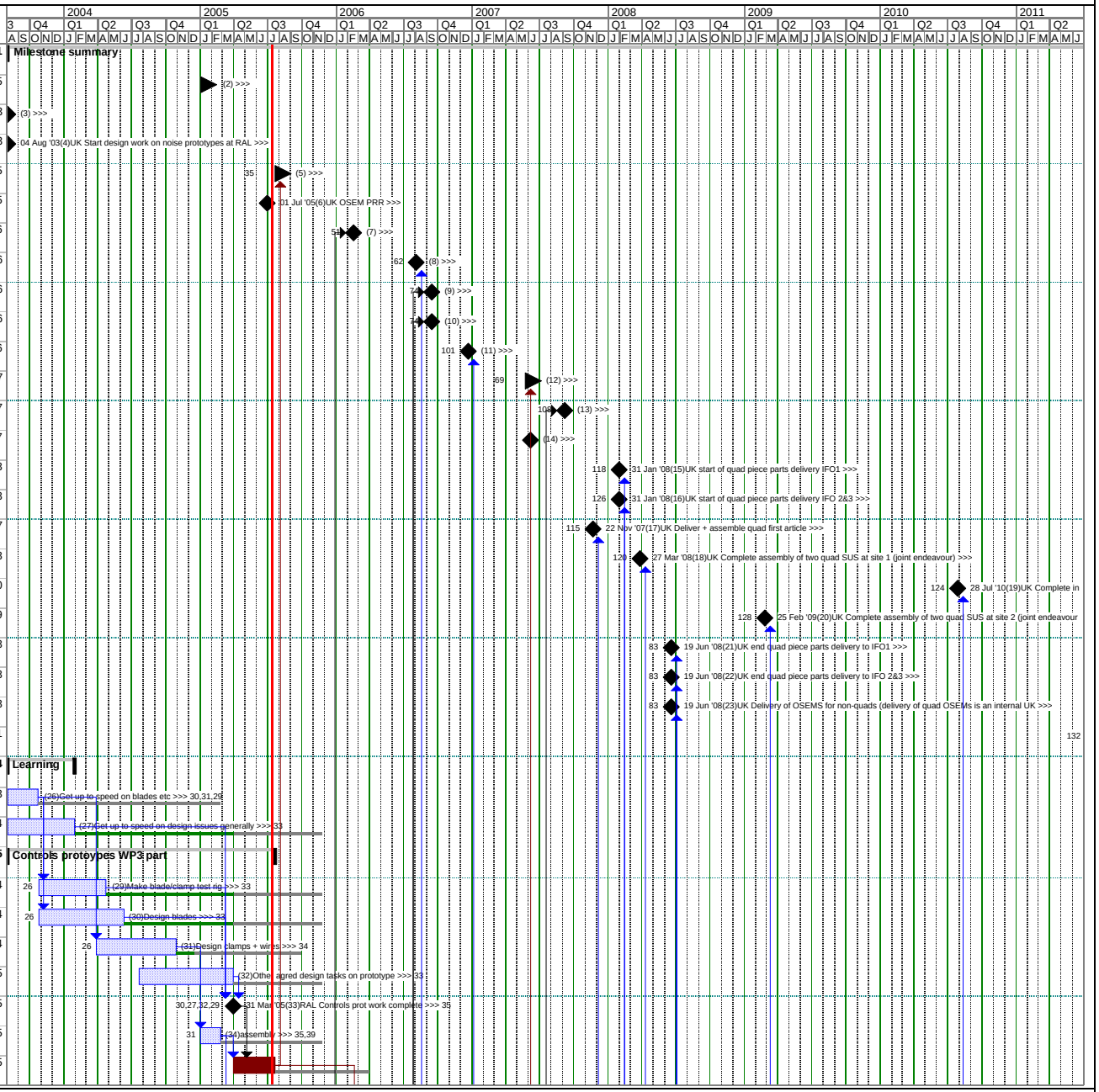
ALUK plan

Last modified on 1 July 2005

M030161-06-K

ID		Task Name	involved	Start	Duration	Finish
1		**Milestone summary**		**04 Aug '03**	**1984 days**	**28 Jul '11**
2		US Sapphire/silica downselect		03 Jan '05	0 days	03 Jan '05
3		US/UK RAL design approval to begin		04 Aug '03	0 days	04 Aug '03
4		UK Start design work on noise prototy		04 Aug '03	0 days	04 Aug '03
5		US Review Results of quad controls p		21 Jul '05	0 days	21 Jul '05
6		UK OSEM PRR		01 Jul '05	0 days	01 Jul '05
7		UK Pre-procurement check of NP des		17 Feb '06	0 days	17 Feb '06
8		UK One convertible Noise prototype c		04 Aug '06	0 days	04 Aug '06
9		UK FDR UK SUS designs		15 Sep '06	0 days	15 Sep '06
10		UK PRR UK SUS designs		15 Sep '06	0 days	15 Sep '06
11		UK Delivery of final OSEM design		22 Dec '06	0 days	22 Dec '06
12		US Results of quad noise prototype t		24 May '07	0 days	24 May '07
13		UK FDR update UK SUS designs		07 Sep '07	0 days	07 Sep '07
14		UK FDR OSEMs (may combine with a		08 Jun '07	0 days	08 Jun '07
15		UK start of quad piece parts delivery		31 Jan '08	0 days	31 Jan '08
16		UK start of quad piece parts delivery		31 Jan '08	0 days	31 Jan '08
17		UK Deliver + assemble quad first artic		22 Nov '07	0 days	22 Nov '07
18		UK Complete assembly of two quad S		27 Mar '08	0 days	27 Mar '08
19		UK Complete installation of two quad		28 Jul '10	0 days	28 Jul '10
20		UK Complete assembly of two quad S		25 Feb '09	0 days	25 Feb '09
21		UK end quad piece parts delivery to I		19 Jun '08	0 days	19 Jun '08
22		UK end quad piece parts delivery to I		19 Jun '08	0 days	19 Jun '08
23		UK Delivery of OSEMS for non-quads		19 Jun '08	0 days	19 Jun '08
24		UK Complete installation of two quad		28 Jul '11	0 days	28 Jul '11
25		**Learning**		**04 Aug '03**	**120 days**	**30 Jan '04**
26		Get up to speed on blades etc		04 Aug '03	3 mons	24 Oct '03
27		Get up to speed on design issues ger		04 Aug '03	6 mons	30 Jan '04
28		**Controls protoypes WP3 p**		**04 Aug '03**	**484 days**	**21 Jul '05**
29		Make blade/clamp test rig		27 Oct '03	6 mons	23 Apr '04
30		Design blades		27 Oct '03	7.75 mons	11 Jun '04
31		Design clamps + wires		29 Mar '04	7.25 mons	29 Oct '04
32		Other agred design tasks on prototyp		22 Jul '04	8.05 mons	31 Mar '05
33		RAL Controls prot work complete		31 Mar '05	0 days	31 Mar '05
34		assembly		03 Jan '05	2 mons	25 Feb '05
35		Controls prototype assy + installation		01 Apr '05	80 days	21 Jul '05



Justin Greenhalgh, RAL

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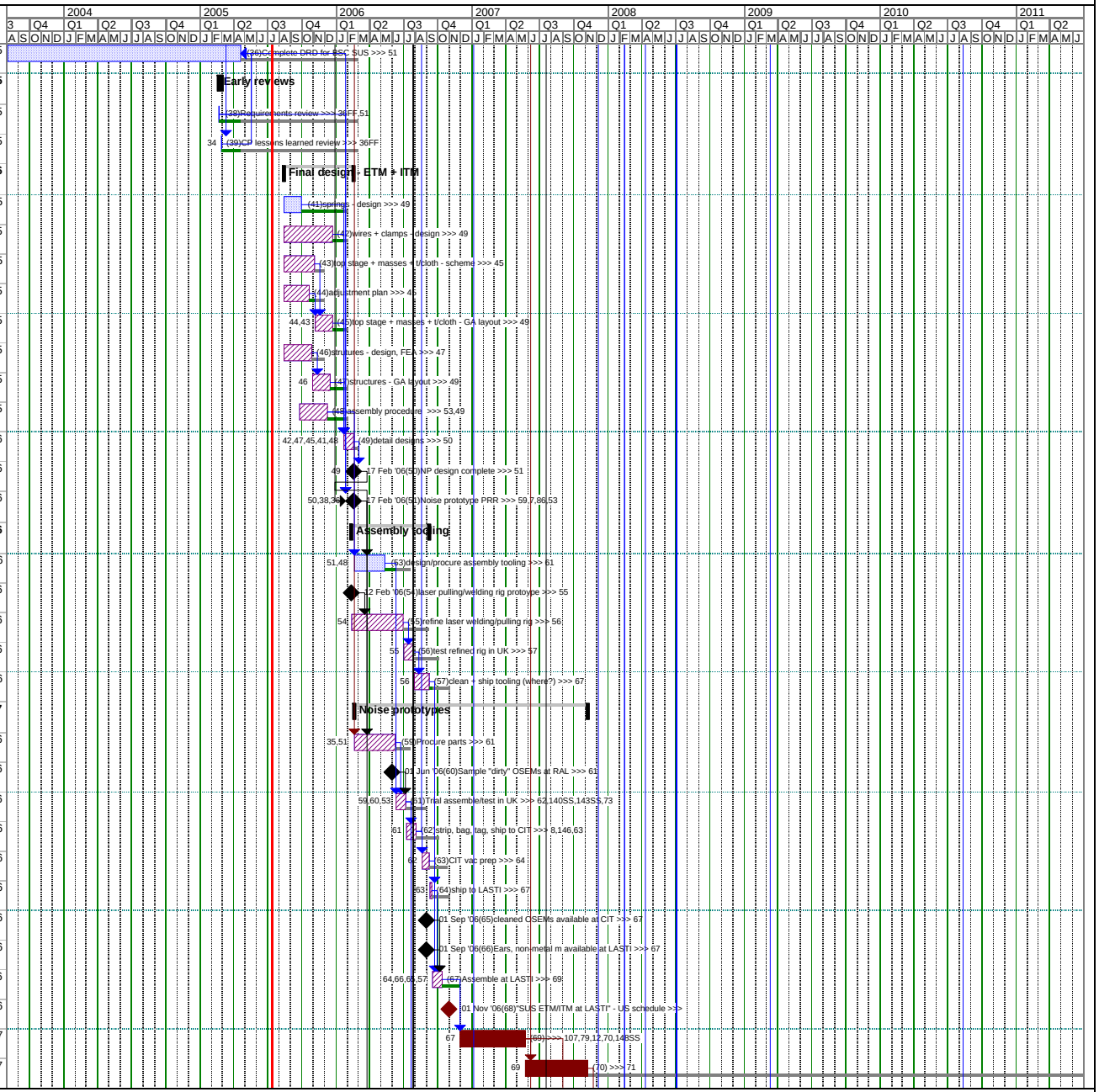
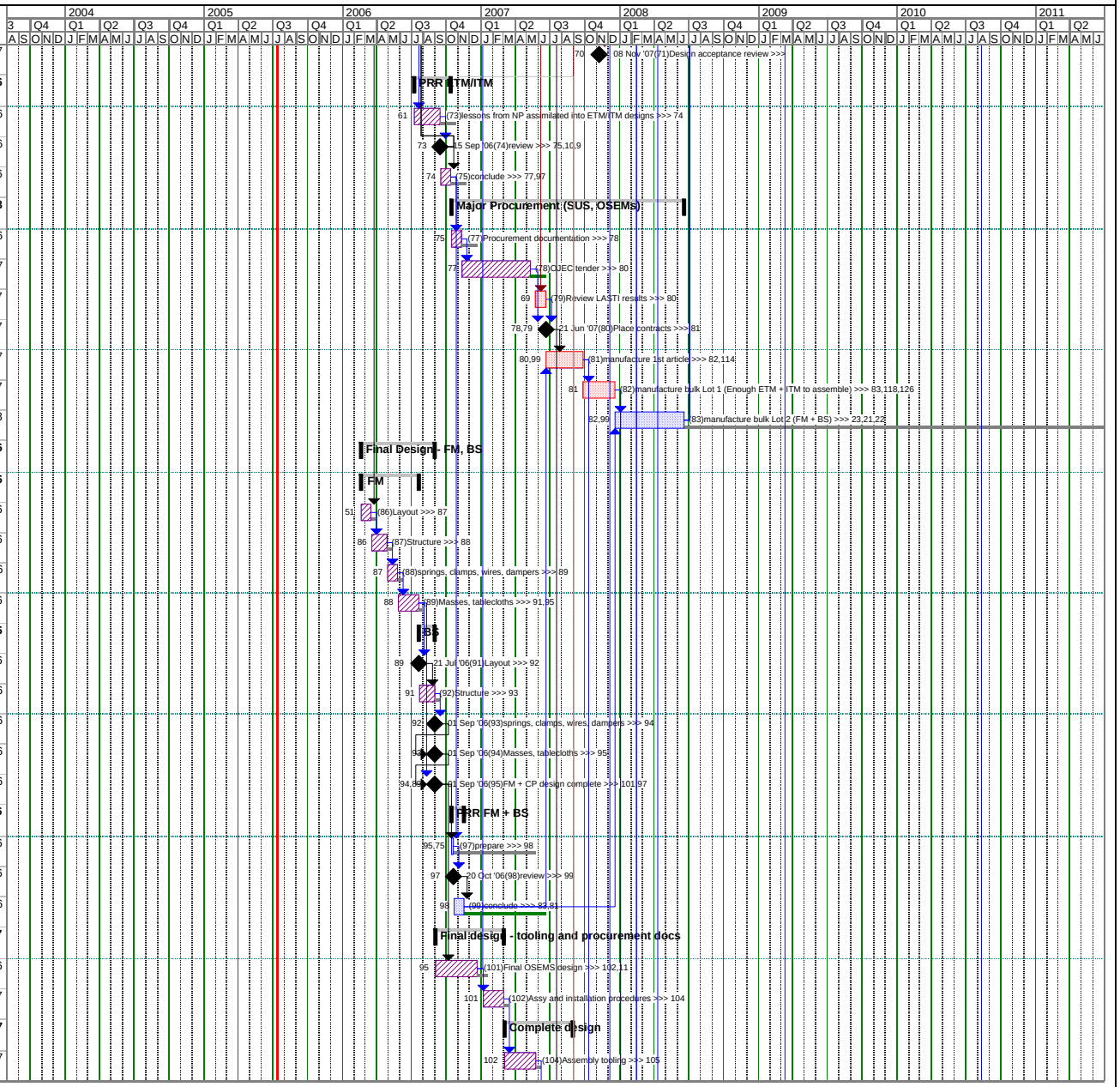
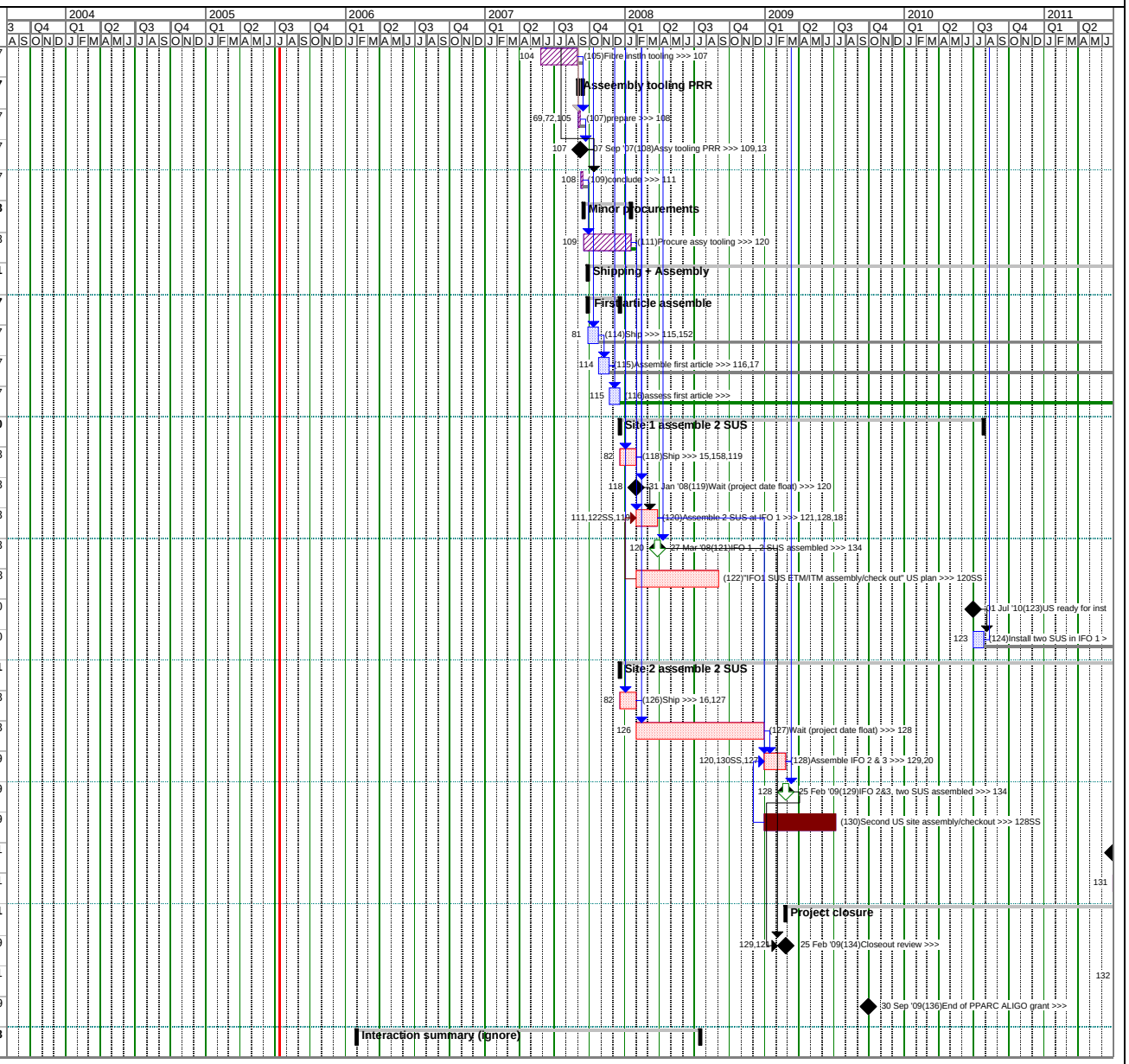
ID		Task Name	involved	Start	Duration	Finish
36		Complete DRD for BSC SUS		04 Aug '03	20.9 mons	20 Apr '05
37		**Early reviews**		**21 Feb '05**	**6 days?**	**28 Feb '05**
38		Requirements review		21 Feb '05	1 day?	21 Feb '05
39		CP lessons learned review		28 Feb '05	1 day?	28 Feb '05
40		**Final design - ETM + ITM**		**15 Aug '05**	**125 days**	**17 Feb '06**
41		springs - design		15 Aug '05	1.75 mons	30 Sep '05
42		wires + clamps - design		15 Aug '05	4.75 mons	23 Dec '05
43		top stage + masses + t/cloth - schem		15 Aug '05	3 mons	04 Nov '05
44		adjustment plan		15 Aug '05	2.5 mons	21 Oct '05
45		top stage + masses + t/cloth - GA lay		07 Nov '05	1.75 mons	23 Dec '05
46		strutures - design, FEA		15 Aug '05	2.75 mons	28 Oct '05
47		structures - GA layout		31 Oct '05	1.75 mons	16 Dec '05
48		assembly procedure		26 Sep '05	2.75 mons	09 Dec '05
49		detail designs		23 Jan '06	1 mon	17 Feb '06
50		NP design complete		17 Feb '06	0 days	17 Feb '06
51		**Noise prototype PRR**		17 Feb '06	0 days	17 Feb '06
52		**Assembly tooling**		**12 Feb '06**	**140 days**	**08 Sep '06**
53		design/procure assembly tooling		20 Feb '06	3 mons	12 May '06
54		laser pulling/welding rig protoype	Glasgow	12 Feb '06	0 days	12 Feb '06
55		refine laser welding/pulling rig	RAL	13 Feb '06	5 mons	30 Jun '06
56		test refined rig in UK	Gla/RAL	03 Jul '06	1 mon	28 Jul '06
57		clean + ship tooling (where?)		31 Jul '06	1 mon	08 Sep '06
58		**Noise prototypes**		**20 Feb '06**	**419 days**	**08 Nov '07**
59		Procure parts		20 Feb '06	4 mons	09 Jun '06
60		Sample "dirty" OSEMs at RAL	Bham	01 Jun '06	0 days	01 Jun '06
61		Trial assemble/test in UK		12 Jun '06	1 mon	07 Jul '06
62		strip, bag, tag, ship to CIT		10 Jul '06	1 mon	04 Aug '06
63		CIT vac prep	CIT	21 Aug '06	3 wks	08 Sep '06
64		ship to LASTI	CIT	11 Sep '06	1 wk	15 Sep '06
65		cleaned OSEMs available at CIT	Bham	01 Sep '06	0 days	01 Sep '06
66		Ears, non-metal m available at LASTI	Glasgow	01 Sep '06	0 days	01 Sep '06
67		Assemble at LASTI	All	18 Sep '06	1 mon	13 Oct '06
68		"SUS ETM/ITM at LASTI" - US sched		01 Nov '06	0 days	01 Nov '06
69		Noise prototype assy/install/test at LA		01 Dec '06	115 days	24 May '07
70		LASTI cavity tests		25 May '07	110 days	08 Nov '07



ID		Task Name	involved	Start	Duration	Finish
71		Design acceptance review		08 Nov '07	0 days	08 Nov '07
72		**PRR ETM/ITM**		**10 Jul '06**	**60 days**	**13 Oct '06**
73		lessons from NP assimilated into ETM		10 Jul '06	2 mons	15 Sep '06
74		review		15 Sep '06	0 days	15 Sep '06
75		conclude		18 Sep '06	1 mon	13 Oct '06
76		**Major Procurement (SUS,**		**16 Oct '06**	**409 days**	**19 Jun '08**
77		Procurement documentation		16 Oct '06	1 mon	10 Nov '06
78		OJEC tender		13 Nov '06	6 mons	11 May '07
79		Review LASTI results		25 May '07	1 mon	21 Jun '07
80		Place contracts		21 Jun '07	0 days	21 Jun '07
81		manufacture 1st article		22 Jun '07	3 mons	27 Sep '07
82		manufacture bulk Lot 1 (Enough ETM		28 Sep '07	3 mons	20 Dec '07
83		manufacture bulk Lot 2 (FM + BS)		21 Dec '07	6 mons	19 Jun '08
84		**Final Design - FM, BS**		**20 Feb '06**	**130 days**	**01 Sep '06**
85		**FM**		**20 Feb '06**	**110 days**	**21 Jul '06**
86		Layout		20 Feb '06	1 mon	17 Mar '06
87		Structure		20 Mar '06	1.5 mons	28 Apr '06
88		springs, clamps, wires, dampers		01 May '06	1 mon	26 May '06
89		Masses, tablecloths		29 May '06	2 mons	21 Jul '06
90		**BS**		**21 Jul '06**	**20 days**	**01 Sep '06**
91		Layout		21 Jul '06	0 days	21 Jul '06
92		Structure		24 Jul '06	1 mon	01 Sep '06
93		springs, clamps, wires, dampers		01 Sep '06	0 days	01 Sep '06
94		Masses, tablecloths		01 Sep '06	0 days	01 Sep '06
95		FM + CP design complete		01 Sep '06	0 days	01 Sep '06
96		**PRR FM + BS**		**16 Oct '06**	**25 days**	**17 Nov '06**
97		prepare		16 Oct '06	1 wk	20 Oct '06
98		review		20 Oct '06	0 days	20 Oct '06
99		conclude		23 Oct '06	1 mon	17 Nov '06
100		**Final design - tooling and**		**04 Sep '06**	**120 days**	**02 Mar '07**
101		Final OSEMS design		04 Sep '06	4 mons	22 Dec '06
102		Assy and installation procedures		08 Jan '07	2 mons	02 Mar '07
103		**Complete design**		**05 Mar '07**	**120 days**	**31 Aug '07**
104		Assembly tooling		05 Mar '07	3 mons	25 May '07



ID		Task Name	involved	Start	Duration	Finish
105		Fibre instln tooling		28 May '07	3 mons	31 Aug '07
106		**Asseembly tooling PRR**		**03 Sep '07**	**10 days**	**14 Sep '07**
107		prepare		03 Sep '07	1 wk	07 Sep '07
108		Assy tooling PRR		07 Sep '07	0 days	07 Sep '07
109		conclude		10 Sep '07	1 wk	14 Sep '07
110		**Minor procurements**		**17 Sep '07**	**80 days**	**18 Jan '08**
111		Procure assy tooling		17 Sep '07	4 mons	18 Jan '08
112		**Shipping + Assembly**		**28 Sep '07**	**980 days?**	**28 Jul '11**
113		**First article assemble**		**28 Sep '07**	**60 days**	**20 Dec '07**
114		Ship		28 Sep '07	1 mon	25 Oct '07
115		Assemble first article		26 Oct '07	1 mon	22 Nov '07
116		assess first article		23 Nov '07	1 mon	20 Dec '07
117		**Site 1 assemble 2 SUS**		**21 Dec '07**	**659 days?**	**28 Jul '10**
118		Ship		21 Dec '07	1 mon	31 Jan '08
119		Wait (project date float)		31 Jan '08	0 days	31 Jan '08
120		Assemble 2 SUS at IFO 1		01 Feb '08	2 mons	27 Mar '08
121		IFO 1 , 2 SUS assembled		27 Mar '08	0 days	27 Mar '08
122		"IFO1 SUS ETM/ITM assembly/c		01 Feb '08	144 days?	03 Sep '08
123		US ready for installation		01 Jul '10	0 days	01 Jul '10
124		Install two SUS in IFO 1		01 Jul '10	1 mon	28 Jul '10
125		**Site 2 assemble 2 SUS**		**21 Dec '07**	**920 days?**	**28 Jul '11**
126		Ship		21 Dec '07	1 mon	31 Jan '08
127		Wait (project date float)		01 Feb '08	229 days	31 Dec '08
128		Assemble IFO 2 & 3		01 Jan '09	2 mons	25 Feb '09
129		IFO 2&3, two SUS assembled		25 Feb '09	0 days	25 Feb '09
130		Second US site assembly/check		01 Jan '09	133 days?	06 Jul '09
131		US ready for installation		01 Jul '11	0 days	01 Jul '11
132		Install first SUS in IFO 2 & 3		01 Jul '11	1 mon	28 Jul '11
133		**Project closure**		**25 Feb '09**	**631 days**	**28 Jul '11**
134		Closeout review		25 Feb '09	0 days	25 Feb '09
135		PIR		28 Jul '11	0 days	28 Jul '11
136		End of PPARC ALIGO grant		30 Sep '09	0 days	30 Sep '09
137		**Interaction summary (ignore)**		**01 Feb '06**	**602 days**	**17 Jul '08**