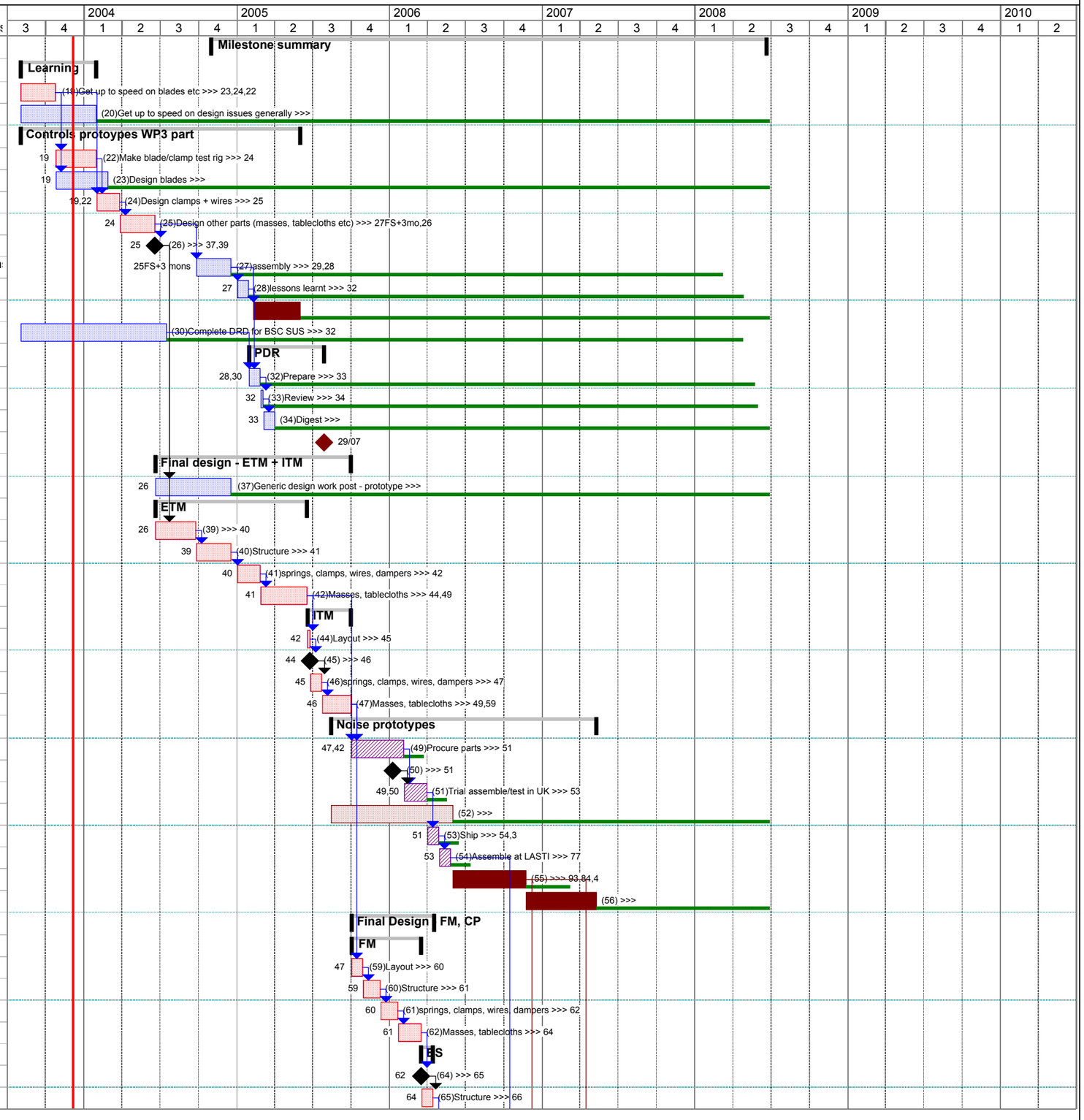
AL UK WP 3 plan

Last modified on 2 Dec 2003

M030161-01-K

ID	Task Name	Duration	Start	Finish	Predecessors
1	**Milestone summary**	**880 days**	**01 Nov '04**	**20 Jun '08**	
18	**Learning**	**120 days**	**04 Aug '03**	**30 Jan '04**	
19	Get up to speed on blades etc	3 mons	04 Aug '03	24 Oct '03	
20	Get up to speed on design issues generally	6 mons	04 Aug '03	30 Jan '04	
21	**Controls protoypes WP3 part**	**448 days**	**04 Aug '03**	**01 Jun '05**	
22	Make blade/clamp test rig	3 mons	27 Oct '03	30 Jan '04	19
23	Design blades	4 mons	27 Oct '03	27 Feb '04	19
24	Design clamps + wires	2 mons	02 Feb '04	26 Mar '04	19,22
25	Design other parts (masses, tablecloths etc)	3 mons	29 Mar '04	18 Jun '04	24
26	Controls prot work complete	0 days	18 Jun '04	18 Jun '04	25
27	assembly	3 mons	27 Sep '04	17 Dec '04	25FS+3 mon
28	lessons learnt	1 mon	03 Jan '05	28 Jan '05	27
29	Controls prototype tests	80 days	10 Feb '05	01 Jun '05	27
30	Complete DRD for BSC SUS	12 mons	04 Aug '03	16 Jul '04	
31	**PDR**	**129 days**	**31 Jan '05**	**29 Jul '05**	
32	Prepare	1 mon	31 Jan '05	25 Feb '05	28,30
33	Review	1 wk	28 Feb '05	04 Mar '05	32
34	Digest	1 mon	07 Mar '05	01 Apr '05	33
35	PDR Dennis	0 days	29 Jul '05	29 Jul '05	
36	**Final design - ETM + ITM**	**305 days**	**21 Jun '04**	**30 Sep '05**	
37	Generic design work post - prototype	6 mons	21 Jun '04	17 Dec '04	26
38	**ETM**	**240 days**	**21 Jun '04**	**17 Jun '05**	
39		3 mons	21 Jun '04	24 Sep '04	26
40	Structure	3 mons	27 Sep '04	17 Dec '04	39
41	springs, clamps, wires, dampers	2 mons	03 Jan '05	25 Feb '05	40
42	Masses, tablecloths	4 mons	28 Feb '05	17 Jun '05	41
43	**ITM**	**65 days**	**20 Jun '05**	**30 Sep '05**	
44	Layout	1 wk	20 Jun '05	24 Jun '05	42
45	Structure	0 days	24 Jun '05	24 Jun '05	44
46	springs, clamps, wires, dampers	1 mon	27 Jun '05	22 Jul '05	45
47	Masses, tablecloths	2 mons	25 Jul '05	30 Sep '05	46
48	**Noise prototypes**	**424 days**	**15 Aug '05**	**10 May '07**	
49	Procure parts	4 mons	03 Oct '05	03 Feb '06	47,42
50	Get OSEMS (from Birmingham)	0 days	09 Jan '06	09 Jan '06	
51	Trial assemble/test in UK	2 mons	06 Feb '06	31 Mar '06	49,50
52	Fab noise prototypes Dennis	199 days	15 Aug '05	01 Jun '06	
53	Ship	1 mon	03 Apr '06	28 Apr '06	51
54	Assemble at LASTI	1 mon	01 May '06	26 May '06	53
55	Noise prototype assy/install/test at LASTI (standalone)	115 days	02 Jun '06	23 Nov '06	
56	LASTI cavity tests	110 days	24 Nov '06	10 May '07	
57	**Final Design - FM, CP**	**131 days**	**03 Oct '05**	**17 Apr '06**	
58	**FM**	**110 days**	**03 Oct '05**	**17 Mar '06**	
59	Layout	1 mon	03 Oct '05	28 Oct '05	47
60	Structure	1.5 mons	31 Oct '05	09 Dec '05	59
61	springs, clamps, wires, dampers	1 mon	12 Dec '05	20 Jan '06	60
62	Masses, tablecloths	2 mons	23 Jan '06	17 Mar '06	61
63	**BS**	**20 days**	**17 Mar '06**	**14 Apr '06**	
64	Layout	0 days	17 Mar '06	17 Mar '06	62
65	Structure	1 mon	20 Mar '06	14 Apr '06	64



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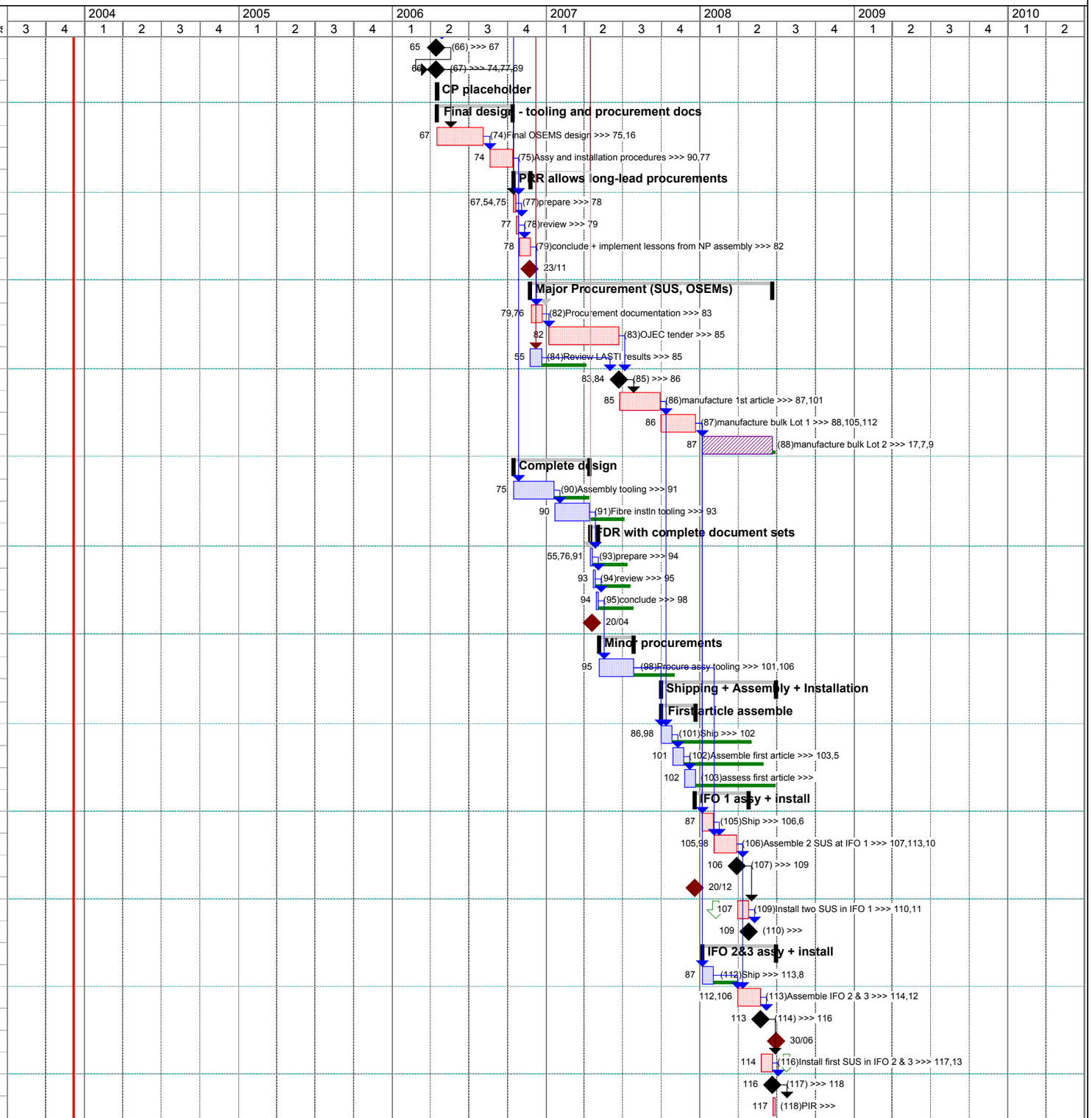
ID	Task Name	Duration	Start	Finish	Predecessors
66	springs, clamps, wires, dampers	0 days	14 Apr '06	14 Apr '06	65
67	Masses, tablecloths	0 days	14 Apr '06	14 Apr '06	66
68	**CP placeholder**	**1 day**	**17 Apr '06**	**17 Apr '06**	
73	**Final design - tooling and procureme**	**120 days**	**17 Apr '06**	**13 Oct '06**	
74	Final OSEMS design	4 mons	17 Apr '06	04 Aug '06	67
75	Assy and installation procedures	2 mons	21 Aug '06	13 Oct '06	74
76	**PRR allows long-lead procurements**	**30 days**	**16 Oct '06**	**24 Nov '06**	
77	prepare	1 wk	16 Oct '06	20 Oct '06	67,54,75
78	review	1 wk	23 Oct '06	27 Oct '06	77
79	conclude + implement lessons from NP assembly	1 mon	30 Oct '06	24 Nov '06	78
80	PRR Dennis	0 days	23 Nov '06	23 Nov '06	
81	**Major Procurement (SUS, OSEMs)**	**381 days**	**24 Nov '06**	**20 Jun '08**	
82	Procurement documentation	1 mon	27 Nov '06	22 Dec '06	79,76
83	OJEC tender	6 mons	08 Jan '07	22 Jun '07	82
84	Review LASTI results	1 mon	24 Nov '06	21 Dec '06	55
85	Place contracts	0 days	22 Jun '07	22 Jun '07	83,84
86	manufacture 1st article	3 mons	25 Jun '07	28 Sep '07	85
87	manufacture bulk Lot 1	3 mons	01 Oct '07	21 Dec '07	86
88	manufacture bulk Lot 2	6 mons	07 Jan '08	20 Jun '08	87
89	**Complete design**	**120 days**	**16 Oct '06**	**13 Apr '07**	
90	Assembly tooling	3 mons	16 Oct '06	19 Jan '07	75
91	Fibre instln tooling	3 mons	22 Jan '07	13 Apr '07	90
92	**FDR with complete document sets**	**15 days**	**16 Apr '07**	**04 May '07**	
93	prepare	1 wk	16 Apr '07	20 Apr '07	55,76,91
94	review	1 wk	23 Apr '07	27 Apr '07	93
95	conclude	1 wk	30 Apr '07	04 May '07	94
96	FDR Dennis	0 days	20 Apr '07	20 Apr '07	
97	**Minor procurements**	**60 days**	**07 May '07**	**27 Jul '07**	
98	Procure assy tooling	3 mons	07 May '07	27 Jul '07	95
99	**Shipping + Assembly + Installation**	**185 days**	**01 Oct '07**	**30 Jun '08**	
100	**First article assemble**	**60 days**	**01 Oct '07**	**21 Dec '07**	
101	Ship	1 mon	01 Oct '07	26 Oct '07	86,98
102	Assemble first article	1 mon	29 Oct '07	23 Nov '07	101
103	assess first article	1 mon	26 Nov '07	21 Dec '07	102
104	**IFO 1 assy + install**	**82 days**	**20 Dec '07**	**25 Apr '08**	
105	Ship	1 mon	07 Jan '08	01 Feb '08	87
106	Assemble 2 SUS at IFO 1	2 mons	04 Feb '08	28 Mar '08	105,98
107	IFO 1 , 2 SUS assembled	0 days	28 Mar '08	28 Mar '08	106
108	Dennis IFO 1 assembled	0 days	20 Dec '07	20 Dec '07	
109	Install two SUS in IFO 1	1 mon	31 Mar '08	25 Apr '08	107
110	IFO 1, two SUS installed	0 days	25 Apr '08	25 Apr '08	109
111	**IFO 2&3 assy + install**	**125 days**	**07 Jan '08**	**30 Jun '08**	
112	Ship	1 mon	07 Jan '08	01 Feb '08	87
113	Assemble IFO 2 & 3	2 mons	31 Mar '08	23 May '08	112,106
114	IFO 2&3, two SUS assembled	0 days	23 May '08	23 May '08	113
115	Dennis IFO 2&3 assy completed	0 days	30 Jun '08	30 Jun '08	
116	Install first SUS in IFO 2 & 3	1 mon	26 May '08	20 Jun '08	114
117	IFO 2&3, two SUS installed	0 days	20 Jun '08	20 Jun '08	116
118	**PIR**	5 days	23 Jun '08	27 Jun '08	117