



ID	Task Name	Type	Duration	Start	Constant Type	End Level	Predecessors	Resource Names	Lab	Cost	Cost Unit	CU	TR	Dir	Est	Est Unit
1	ADV project start		0 wks	01/07/09	Earlier Than	1										
2	ADV installation shutdown		0 wks	01/07/11	Earlier Than	1										
9	BC		248 wks	05/01/09	As Possible	1										
10	Start of VSR2 run	D	0 more	26/06/09	Earlier Than	2										
11	PAY: payload siesta model available	D	0 more	05/01/09	As Possible	2										
12	Project start	D	0 more	01/07/09	Earlier Than	2										
13	OSD: CTF lengths defined	D	0 more	05/01/09	As Possible	2										
14	OSD: flexure and reflectivities definition	D	0 more	05/01/09	As Possible	2										
15	OSD: interferometer asymmetries estimation	D	0 more	05/01/09	As Possible	2										
16	OSD: contrast defect estimation	D	0 more	05/01/09	As Possible	2										
17	OSD: flexure definition	D	0 more	05/01/09	As Possible	2										
18	SAT, PAY: expected mirror motion spectral	D	0 more	05/01/09	As Possible	2										
19	DET commissioned	D	0 more	31/12/10	Earlier Than	2										
20	INJ commissioned	D	0 more	31/12/10	Earlier Than	2										
21	PAY: LC commissioned	D	0 more	31/12/10	Earlier Than	2										
22	HF commissioning start	D	0 more	01/07/13	Earlier Than	2										
23	ISC management		35 more	05/01/09	Earlier Than	2										
24	Alignment conceptual design		31 wks	01/04/09	As Possible	2										
25	Software identification for alignment		2 more	01/04/09	Earlier Than	3										
26	Evaluation of Anderson vs. Ward tech		2 wks	01/07/09	Earlier Than	3										
27	MSRC: feasibility of noise evaluation c		2 wks	15/07/09	As Possible	3										
28	Steady state sensing configuration (nc)		3 more	15/07/09	As Possible	3										
29	Steady state control configuration (nc)		1 more	02/09/09	As Possible	3										
30	Noise performance (coupling to DF, ei		1 more	29/10/09	As Possible	3										
31	radiation pressure mitigation (dbrms)		1 more	15/07/09	As Possible	3										
32	deliverable: alignment specs for PAY		1 more	28/10/09	As Possible	3										
33	Alignment design specifications		8 wks	25/11/09	As Possible	2										
34	Beam/quadrant ports definition (noise)		1 more	25/11/09	As Possible	3										
35	Angular accuracy specification (RMS)		2 more	25/11/09	As Possible	3										
36	Alignment simulations - pre-commissioni		36 wks	03/02/10	As Possible	2										
37	Tuning of software		3 more	03/02/10	As Possible	3										
38	Simulation of radiation pressure in con		6 more	28/04/10	As Possible	3										
39	Simulation of OLP's stability of all lo		4 more	28/04/10	As Possible	3										
40	Alignment acquisition procedure		4 more	03/02/10	As Possible	3										
41	Modulation frequencies		41.4 wks	05/01/09	As Possible	2										
42	Normal frequency and multiple lockin		4 more	01/07/09	As Possible	3										
43	Subbands on sidbands: possible or n		2 more	05/01/09	As Possible	3										
44	Definition of modulation frequencies		2 more	02/03/09	As Possible	3										
45	Compatibility with EM environmental r		1 more	27/04/09	As Possible	3										
46	Steady state locking: conceptual design		24 wks	01/07/09	As Possible	2										
47	Sher noise correlations and feed-fow		6 more	01/07/09	As Possible	3										
48	DC locking of dark fringe: hierarchical		4 more	01/07/09	As Possible	3										
49	Digital SSP feasibility		3 more	01/07/09	As Possible	3										
50	Need for 'S' signal?		1 more	01/07/09	As Possible	3										
51	Steady state locking: design specification		48 wks	20/07/10	As Possible	2										
52	Radiation pressure mitigation with digi		4 more	20/07/10	As Possible	3										
53	Correction filter definition		3 more	12/05/10	As Possible	3										
54	Feed-forward filters: specs at low freq		4 more	12/05/10	As Possible	3										
55	Feed-forward technique filter design		3 more	12/05/10	As Possible	3										
56	Specifications on mirror control noise		3 more	04/08/10	As Possible	3										
57	Specifications on mirror control signal		2 more	04/08/10	As Possible	3										
58	Specifications on RF oscillator phase		4 more	04/08/10	As Possible	3										
59	Specifications on IMC locking accuracy		4 more	04/08/10	As Possible	3										
60	Specifications on IMC length noise po		2 more	04/08/10	As Possible	3										
61	Specifications on laser frequency noise		2 more	04/08/10	As Possible	3										
62	Beams & photodiodes definition		1 more	04/08/10	As Possible	3										
63	Specifications on DC powers		1 more	04/08/10	As Possible	3										
64	Specifications on sampling frequencies		1 more	04/08/10	As Possible	3										
65	Specifications on beam quality		3 more	04/08/10	As Possible	3										
66	Definition of deauting		2 more	04/08/10	As Possible	3										
67	Specification for noise on sidbands b		5 more	04/08/10	As Possible	3										
68	Specification on RFAM		3 more	04/08/10	As Possible	3										
69	Steady state locking: simulations - pre-co		24 wks	28/01/11	As Possible	2										
70	Simulation of radiation pressure: time		6 more	28/01/11	As Possible	3										
71	Simulation of OLP's stability of all lo		6 more	28/01/11	As Possible	3										
72	Lock acquisition conceptual design		12 wks	05/01/09	As Possible	2										
73	Evaluation of different lock acquisition		3 more	05/01/09	As Possible	3										
74	Lock acquisition: construction		130.4 wks	30/03/09	As Possible	2										
75	Specifications on auxiliary laser frequ		3 more	30/03/09	As Possible	3										
76	Auxiliary laser bench design		3 more	22/06/09	As Possible	3										
77	Purchase of lasers		3 more	05/01/11	Earlier Than	3										
78	Purchase of optical components		3 more	01/07/10	Earlier Than	3										
79	Lab tests		6 more	30/03/11	As Possible	3										
80	Installation		3 more	05/10/11	As Possible	3										
81	Whole interferometer lock acquisition		2 more	05/10/08	As Possible	3										
82	Specifications on correction signal exc		2 more	05/10/08	As Possible	3										
83	specification on mirror velocity nomina		2 more	05/10/08	As Possible	3										
84	Lock acquisition: simulations - pre-comen		36 wks	11/01/12	As Possible	2										
85	Lock acquisition of long arms simulati		3 more	11/01/12	As Possible	3										
86	Lock acquisition of interferometer cent		3 more	11/01/12	As Possible	3										
87	Lock acquisition of single high flexure		6 more	11/01/12	As Possible	3										
88	deliverable: Lock acquisition procedure		3 more	27/06/12	As Possible	3										
89	Parametric instability mitigation		4.4 wks	01/07/09	As Possible	2										
90	Parametric instability mitigation conce		0.2 wks	01/07/09	As Possible	3										
91	Parametric instability mitigation design		0.2 wks	02/07/09	As Possible	3										
92	Parametric instability mitigation: simul		1 more	03/07/09	As Possible	3										
93	sensing and control: integration		4 wks	10/01/12	As Possible	2										
94	test of global control for longitudinal lo		1 more	10/01/12	As Possible	3										
95	test of global control for angular lock		1 more	10/01/12	As Possible	3										
96	software support		1 more	10/01/12	As Possible	3										
97	commissioning for 1-hour long lock		34 wks	01/07/13	As Possible	2										
98	Lock of one arm with auxiliary laser		1 more	01/07/13	As Possible	3										
99	1 arm lock, transfer to 1.06 laser at res		2 wks	29/07/13	As Possible	3										
100	Lock of DARM, CARM and MICH		1 more	02/09/13	As Possible	3										
101	alignment of DARM, CARM and MICH		1 more	30/09/13	As Possible	3										
102	lock of DARM, CARM, MICH and PRC		1 more	28/10/13	As Possible	3										
103	alignment of PRC: mitigation of opti		1 more	25/11/13	As Possible	3										
104	lock of SRC		2 more	06/01/14	As Possible	3										
105	alignment of SRC		1 more	03/03/14	As Possible	3										
106	software support		6 more	01/07/13	As Possible	3										