

ID	WBS	Task Name	Lead	% Complete	Work	Start	Finish	
0	0	NGAO System Design Phase Schedule		3%	16,725 hrs	Wed 6/21/06	Thu 4/17/08	J
1	1	SD Phase Management	PW	12%	2,175 hrs	Wed 6/21/06	Thu 4/17/08	
2	1.1	Planning and Contracting	PW	40%	230 hrs	Wed 6/21/06	Wed 11/14/07	
3	1.1.1	NGAO Proposal to SSC		100%	0 hrs	Wed 6/21/06	Wed 6/21/06	
4	1.1.2	Management Structure Decision by Directors		100%	0 hrs	Fri 7/14/06	Fri 7/14/06	
5	1.1.3	SD Phase System Engineering Management Plan	PW	100%	80 hrs	Fri 9/1/06	Fri 9/29/06	
6	1.1.4	SD Phase Contracts Generated	SA	25%	60 hrs	Wed 9/27/06	Fri 10/27/06	
7	1.1.5	Director Approval		0%	0 hrs	Mon 10/9/06	Mon 10/9/06	
8	1.1.6	SD Partner Contracts Issued	SA	0%	0 hrs	Fri 10/27/06	Fri 10/27/06	
9	1.1.7	Mid-year Replan	PW	0%	40 hrs	Mon 3/5/07	Fri 3/16/07	
10	1.1.8	FY08 Replan	PW	0%	50 hrs	Thu 10/25/07	Wed 11/14/07	
11	1.2	Project Meetings		14%	1,352 hrs	Wed 6/21/06	Thu 4/3/08	
12	1.2.1	Executive Committee Telecons	PW...	25%	360 hrs	Wed 6/21/06	Thu 4/3/08	
13	1.2.2	Science Advisory Committee Telecons	CM	0%	40 hrs	Mon 10/2/06	Fri 3/28/08	
14	1.2.3	Team Meetings		17%	952 hrs	Thu 9/14/06	Wed 1/9/08	
15	1.2.3.1	Team Meeting #1 (mgmt, science & technical - Irvine)		100%	68 hrs	Thu 9/14/06	Thu 9/14/06	
16	1.2.3.2	Team Meeting #2 (CIT)		100%	80 hrs	Tue 11/14/06	Tue 11/14/06	
17	1.2.3.3	Team Videocon #3		0%	44 hrs	Wed 12/13/06	Wed 12/13/06	
18	1.2.3.4	Team Meeting #4 (Keck)		0%	80 hrs	Mon 1/22/07	Mon 1/22/07	
19	1.2.3.5	Team Videocon #5		0%	44 hrs	Wed 3/7/07	Wed 3/7/07	
20	1.2.3.6	Team Meeting #6 (UCSC)		0%	80 hrs	Wed 4/18/07	Wed 4/18/07	
21	1.2.3.7	Team Videocon #7		0%	44 hrs	Wed 5/30/07	Wed 5/30/07	
22	1.2.3.8	Team Retreat #8 (UCSC)		0%	220 hrs	Mon 7/9/07	Wed 7/11/07	
23	1.2.3.9	Team Videocon #9		0%	44 hrs	Wed 8/22/07	Wed 8/22/07	
24	1.2.3.10	Team Meeting #10 (CIT)		0%	80 hrs	Tue 9/11/07	Tue 9/11/07	
25	1.2.3.11	Team Videocon #11		0%	44 hrs	Mon 11/5/07	Mon 11/5/07	
26	1.2.3.12	Team Meeting #12 (Keck)		0%	80 hrs	Wed 12/12/07	Wed 12/12/07	
27	1.2.3.13	Team Videocon #13		0%	44 hrs	Wed 1/9/08	Wed 1/9/08	

Project: NGAO System Design Phase
Date: Wed 11/22/06

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28	1.3	Tracking and Reporting	PW	5%	120 hrs	Sat 9/16/06	Thu 4/3/08	
29	1.3.1	Report Preparation/Presentation	PW	5%	120 hrs	Mon 10/2/06	Wed 12/12/07	
30	1.3.2	Keck Science Meeting 06 (UCI)		100%	0 hrs	Sat 9/16/06	Sat 9/16/06	
31	1.3.3	SSC meeting (UCLA)		100%	0 hrs	Mon 11/6/06	Mon 11/6/06	
32	1.3.4	SSC meeting (Keck)		0%	0 hrs	Wed 1/24/07	Wed 1/24/07	
33	1.3.5	SSC meeting (CA)		0%	0 hrs	Tue 4/3/07	Tue 4/3/07	
34	1.3.6	SSC meeting (Keck)		0%	0 hrs	Wed 6/20/07	Wed 6/20/07	
35	1.3.7	Keck Science Meeting 07		0%	0 hrs	Sat 9/22/07	Sat 9/22/07	
36	1.3.8	SSC meeting (CA)		0%	0 hrs	Tue 11/6/07	Tue 11/6/07	
37	1.3.9	SSC meeting (Keck)		0%	0 hrs	Thu 1/24/08	Thu 1/24/08	
38	1.3.10	SSC meeting (CA)		0%	0 hrs	Thu 4/3/08	Thu 4/3/08	
39	1.4	Proposals & Fundraising		0%	0 hrs	Fri 10/27/06	Mon 1/1/07	
40	1.4.1	Dates & deliverables identified by Directors		0%	0 hrs	Fri 10/27/06	Fri 10/27/06	
41	1.4.2	Support Advancement Office		0%	0 hrs	Mon 1/1/07	Mon 1/1/07	
42	1.5	System Design Report & Review	SA	0%	473 hrs	Mon 10/1/07	Thu 4/17/08	
43	1.5.1	System Design Report	PW	0%	40 hrs	Wed 2/20/08	Mon 3/3/08	
44	1.5.2	System Design Review	PW	0%	433 hrs	Mon 10/1/07	Thu 4/17/08	
45	1.5.2.1	Identify Reviewers	SA	0%	15 hrs	Mon 10/1/07	Fri 12/14/07	
46	1.5.2.2	Review Package Distributed	SA	0%	8 hrs	Mon 3/3/08	Tue 3/4/08	
47	1.5.2.3	Reviewer Comments Addressed	PW	0%	120 hrs	Tue 3/18/08	Tue 3/25/08	
48	1.5.2.4	System Design Review Support	PW	0%	250 hrs	Mon 3/3/08	Mon 3/31/08	
49	1.5.2.5	System Design Review Meeting	SA	0%	0 hrs	Mon 3/31/08	Mon 3/31/08	
50	1.5.2.6	Reviewer Report Received		0%	0 hrs	Mon 4/14/08	Mon 4/14/08	
51	1.5.2.7	Response to Reviewer Report & Distribution	PW	0%	40 hrs	Mon 4/14/08	Thu 4/17/08	
52	2	System Requirements	PW	0%	3,524 hrs	Mon 10/2/06	Fri 11/2/07	
53	2.1	Science Requirements	CM	0%	3,090 hrs	Mon 10/2/06	Mon 10/15/07	
54	2.1.1	Solar System Science Requirements	FM	0%	650 hrs	Mon 10/2/06	Fri 4/6/07	
55	2.1.1.1	Companions & Multiplicity of Small Solar System Bodies		0%	250 hrs	Mon 10/2/06	Fri 1/12/07	

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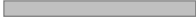










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56	2.1.1.1.1	Point Source Companion Sensitivity Requirements		0%	100 hrs	Mon 10/2/06	Fri 12/1/06	
57	2.1.1.1.2	Spectral Sensitivity & Spectral Resolution Requirements		0%	100 hrs	Mon 10/2/06	Fri 12/1/06	
58	2.1.1.1.3	Observing Scenarios		0%	25 hrs	Mon 12/4/06	Fri 1/12/07	
59	2.1.1.1.4	Science Instrument Requirements		0%	25 hrs	Mon 12/4/06	Fri 1/12/07	
60	2.1.1.2	Moons of the Giant Planets		0%	150 hrs	Mon 12/4/06	Fri 3/9/07	
61	2.1.1.2.1	Performance Requirements		0%	100 hrs	Mon 12/4/06	Fri 1/26/07	
62	2.1.1.2.2	Observing Scenarios		0%	25 hrs	Mon 1/29/07	Fri 3/9/07	
63	2.1.1.2.3	Science Instrument Requirements		0%	25 hrs	Mon 1/29/07	Fri 3/9/07	
64	2.1.1.3	Shape & Size of Asteroids		0%	250 hrs	Mon 1/29/07	Fri 4/6/07	
65	2.1.1.3.1	Spatial Resolution Requirements		0%	100 hrs	Mon 1/29/07	Fri 3/2/07	
66	2.1.1.3.2	Spectral Sensitivity & Spectral Resolution Requirements		0%	100 hrs	Mon 1/29/07	Fri 3/2/07	
67	2.1.1.3.3	Observing Scenarios		0%	25 hrs	Mon 3/5/07	Fri 4/6/07	
68	2.1.1.3.4	Science Instrument Requirements		0%	25 hrs	Mon 3/5/07	Fri 4/6/07	
69	2.1.2	Galactic Science Requirements	ML	0%	1,200 hrs	Mon 10/2/06	Fri 4/6/07	
70	2.1.2.1	Galactic Center Proper Motions: Astrometry	AG	0%	200 hrs	Mon 10/2/06	Fri 1/12/07	
71	2.1.2.1.1	Astrometry requirements		0%	150 hrs	Mon 10/2/06	Fri 12/8/06	
72	2.1.2.1.2	Observing Scenarios		0%	25 hrs	Mon 11/27/06	Fri 1/12/07	
73	2.1.2.1.3	Science Instrument Requirements		0%	25 hrs	Mon 11/27/06	Fri 1/12/07	
74	2.1.2.2	Galactic Center Radial Velocities & Stellar Populations: Integ	AG	0%	200 hrs	Mon 11/27/06	Fri 3/9/07	
75	2.1.2.2.1	Performance Requirements		0%	150 hrs	Mon 11/27/06	Fri 1/26/07	
76	2.1.2.2.2	Observing Scenarios		0%	25 hrs	Mon 1/29/07	Fri 3/9/07	
77	2.1.2.2.3	Science Instrument Requirements		0%	25 hrs	Mon 1/29/07	Fri 3/9/07	
78	2.1.2.3	Galactic Center Nature of Sgr A*: 3-5 um Color & 2 um Polari	AG	0%	200 hrs	Mon 1/29/07	Fri 4/6/07	
79	2.1.2.3.1	Performance Requirements		0%	150 hrs	Mon 1/29/07	Fri 3/2/07	
80	2.1.2.3.2	Observing Scenarios		0%	25 hrs	Mon 3/5/07	Fri 4/6/07	
81	2.1.2.3.3	Science Instrument Requirements		0%	25 hrs	Mon 3/5/07	Fri 4/6/07	
82	2.1.2.4	Planets around Low Mass Stars & Brown Dwarfs: Companio	ML	0%	200 hrs	Mon 10/2/06	Fri 1/12/07	
83	2.1.2.4.1	Companion Sensitivity Performance Requirements		0%	150 hrs	Mon 10/2/06	Fri 12/8/06	

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84	2.1.2.4.2	Observing Scenarios		0%	25 hrs	Mon 11/27/06	Fri 1/12/07	
85	2.1.2.4.3	Science Instrument Requirements		0%	25 hrs	Mon 11/27/06	Fri 1/12/07	
86	2.1.2.5	Debris Disks, Protostellar Envelopes & Outflows: Contrast	LH	0%	200 hrs	Mon 1/29/07	Fri 4/6/07	
87	2.1.2.5.1	Contrast Performance Requirements		0%	150 hrs	Mon 1/29/07	Fri 3/2/07	
88	2.1.2.5.2	Observing Scenarios		0%	25 hrs	Mon 3/5/07	Fri 4/6/07	
89	2.1.2.5.3	Science Instrument Requirements		0%	25 hrs	Mon 3/5/07	Fri 4/6/07	
90	2.1.2.6	Debris Disks, Protostellar Envelopes & Outflows: Polarimetr		0%	200 hrs	Mon 11/27/06	Fri 3/9/07	
91	2.1.2.6.1	Polarimetry Performance Requirements		0%	150 hrs	Mon 11/27/06	Fri 1/26/07	
92	2.1.2.6.2	Observing Scenarios		0%	25 hrs	Mon 1/29/07	Fri 3/9/07	
93	2.1.2.6.3	Science Instrument Requirements		0%	25 hrs	Mon 1/29/07	Fri 3/9/07	
94	2.1.3	Extragalactic Science Requirements	CM	0%	1,000 hrs	Mon 10/2/06	Fri 4/27/07	
95	2.1.3.1	Resolved Stellar Populations in Crowded Fields		0%	300 hrs	Mon 10/2/06	Fri 2/2/07	
96	2.1.3.1.1	Performance Requirements		0%	250 hrs	Mon 10/2/06	Fri 12/22/06	
97	2.1.3.1.2	Observing Scenarios		0%	25 hrs	Mon 12/11/06	Fri 2/2/07	
98	2.1.3.1.3	Science Instrument Requirements		0%	25 hrs	Mon 12/11/06	Fri 2/2/07	
99	2.1.3.2	High Redshift Galaxies		0%	300 hrs	Mon 10/2/06	Fri 2/2/07	
100	2.1.3.2.1	Encircled Energy (& d-IFU) Performance Requirements		0%	200 hrs	Mon 10/2/06	Fri 12/22/06	
101	2.1.3.2.2	Observing Scenarios		0%	50 hrs	Mon 12/11/06	Fri 2/2/07	
102	2.1.3.2.3	Science Instrument Requirements		0%	50 hrs	Mon 12/11/06	Fri 2/2/07	
103	2.1.3.3	Nearby Galaxies		0%	200 hrs	Mon 12/11/06	Fri 4/27/07	
104	2.1.3.3.1	Encircled Energy & PSF Performance Requirements		0%	150 hrs	Mon 12/11/06	Fri 3/2/07	
105	2.1.3.3.2	Observing Scenarios		0%	25 hrs	Mon 3/5/07	Fri 4/27/07	
106	2.1.3.3.3	Science Instrument Requirements		0%	25 hrs	Mon 3/5/07	Fri 4/27/07	
107	2.1.3.4	Gravitational Lensing		0%	200 hrs	Mon 12/11/06	Fri 4/27/07	
108	2.1.3.4.1	Encircled Energy & PSF Performance Requirements		0%	150 hrs	Mon 12/11/06	Fri 3/2/07	
109	2.1.3.4.2	Observing Scenarios		0%	25 hrs	Mon 3/5/07	Fri 4/27/07	
110	2.1.3.4.3	Science Instrument Requirements		0%	25 hrs	Mon 3/5/07	Fri 4/27/07	
111	2.1.4	Science Requirements Summary	CM	0%	240 hrs	Mon 10/2/06	Mon 10/15/07	

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112	2.1.4.1	Science Requirements Summary Rev 1		0%	40 hrs	Mon 10/2/06	Thu 10/19/06	
113	2.1.4.2	Science Requirements Summary Rev 2		0%	120 hrs	Tue 2/13/07	Fri 3/2/07	
114	2.1.4.3	Science Requirements Summary Rev 3		0%	40 hrs	Tue 6/5/07	Fri 6/22/07	
115	2.1.4.4	Science Requirements Summary Final		0%	40 hrs	Wed 9/26/07	Mon 10/15/07	
116	2.2	Observatory Requirements	CN	0%	224 hrs	Mon 10/2/06	Fri 9/7/07	
117	2.2.1	Development Requirements	CN	0%	16 hrs	Mon 10/2/06	Fri 11/24/06	
118	2.2.2	Observatory Interface Requirements	CN	0%	24 hrs	Mon 10/2/06	Fri 10/27/06	
119	2.2.3	Science Operations Requirements	DLM	0%	64 hrs	Mon 10/2/06	Fri 11/24/06	
120	2.2.4	Observatory Requirements Rev 2	CN	0%	80 hrs	Mon 1/22/07	Fri 2/9/07	
121	2.2.5	Observatory Requirements Rev 3	CN	0%	20 hrs	Mon 4/9/07	Fri 5/18/07	
122	2.2.6	Observatory Requirements Rev 4	CN	0%	20 hrs	Mon 7/16/07	Fri 9/7/07	
123	2.3	System Requirements Document		0%	210 hrs	Mon 10/9/06	Fri 11/2/07	
124	2.3.1	Traceability Matrix	CN	0%	130 hrs	Mon 10/9/06	Sat 10/20/07	
125	2.3.1.1	Traceability Matrix Rev 1	CN	0%	10 hrs	Mon 10/9/06	Fri 10/20/06	
126	2.3.1.2	Traceability Matrix Rev 2	CN	0%	80 hrs	Mon 2/12/07	Tue 2/27/07	
127	2.3.1.3	Traceability Matrix Rev 3	CN	0%	20 hrs	Fri 6/15/07	Thu 6/28/07	
128	2.3.1.4	Traceability Matrix Rev 4	CN	0%	20 hrs	Tue 10/9/07	Sat 10/20/07	
129	2.3.2	System Requirements Document	PW	0%	80 hrs	Mon 11/27/06	Fri 11/2/07	
130	2.3.2.1	SRD Rev 1	PW	0%	20 hrs	Mon 11/27/06	Fri 12/8/06	
131	2.3.2.2	SRD Rev 2	CN	0%	20 hrs	Fri 3/9/07	Thu 3/22/07	
132	2.3.2.3	SRD Rev 3	CN	0%	20 hrs	Fri 6/29/07	Thu 7/12/07	
133	2.3.2.4	SRD Final SD Phase Version	CN	0%	20 hrs	Mon 10/22/07	Fri 11/2/07	
134	3	System Design	PW	3%	9,826 hrs	Mon 8/14/06	Fri 1/18/08	
135	3.1	Systems Engineering	RD	5%	5,256 hrs	Mon 8/14/06	Fri 12/28/07	
136	3.1.1	Performance Budgets	RD	8%	2,346 hrs	Mon 8/14/06	Wed 12/12/07	
137	3.1.1.1	Model Assumptions	CN	13%	260 hrs	Mon 8/14/06	Fri 6/29/07	
138	3.1.1.1.1	TMT site monitoring data mining	RF	19%	80 hrs	Mon 8/14/06	Fri 6/29/07	
139	3.1.1.1.1.1	Tools in place & 1st release	RF	100%	40 hrs	Mon 8/14/06	Thu 9/14/06	

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140	3.1.1.1.1.2	Release updated data (every two months)	RF	10%	40 hrs	Mon 9/18/06	Fri 6/29/07	
141	3.1.1.1.2	Telescope dynamic performance data	CN	0%	120 hrs	Mon 10/2/06	Thu 11/30/06	
142	3.1.1.1.3	Telescope static wavefront errors	CN	0%	20 hrs	Mon 10/2/06	Thu 11/30/06	
143	3.1.1.1.4	Sodium return vs laser format	DG	0%	40 hrs	Wed 11/1/06	Thu 11/30/06	
144	3.1.1.2	Model/Tool Validation	CN	17%	334 hrs	Mon 8/14/06	Fri 12/15/06	
145	3.1.1.2.1	Agreement between Tomography Codes	DG	50%	40 hrs	Mon 8/14/06	Fri 9/29/06	
146	3.1.1.2.2	Agreement between Sky Coverage Codes	RD	0%	40 hrs	Mon 10/16/06	Fri 11/3/06	
147	3.1.1.2.3	Anchor to Keck II LGS AO PSFs	CN	0%	40 hrs	Mon 10/2/06	Mon 10/30/06	
148	3.1.1.2.4	Anchor to On-sky MGSU Experiments	RF	0%	10 hrs	Fri 11/10/06	Wed 11/15/06	
149	3.1.1.2.5	Anchor to LAO Lab Experiments	DG	0%	204 hrs	Mon 11/6/06	Fri 12/15/06	
150	3.1.1.3	Throughput	AB	0%	32 hrs	Mon 10/2/06	Fri 12/29/06	
151	3.1.1.4	Background	AB	22%	50 hrs	Mon 10/2/06	Tue 1/9/07	
152	3.1.1.4.1	Document Proposal Analysis	AB	0%	10 hrs	Mon 10/2/06	Thu 10/12/06	
153	3.1.1.4.2	Develop Background Performance Budget	AB	25%	40 hrs	Mon 10/2/06	Tue 1/9/07	
154	3.1.1.5	Wavefront Error vs Sky Coverage	RD	0%	110 hrs	Mon 10/2/06	Tue 1/30/07	
155	3.1.1.5.1	Document WFE Budget Rev 1	RD	0%	40 hrs	Mon 10/2/06	Fri 12/8/06	
156	3.1.1.5.2	Document WFE Budget Rev 2	RD	0%	70 hrs	Wed 12/27/06	Tue 1/30/07	
157	3.1.1.6	Encircled Energy vs Sky Coverage	DG	0%	110 hrs	Mon 10/23/06	Fri 12/29/06	
158	3.1.1.7	Photometric Accuracy	MB	0%	240 hrs	Mon 10/16/06	Fri 1/26/07	
159	3.1.1.8	Astrometric Accuracy	BC	0%	240 hrs	Mon 11/13/06	Fri 6/29/07	
160	3.1.1.9	Polarimetric Accuracy	MI	25%	40 hrs	Mon 2/5/07	Fri 3/9/07	
161	3.1.1.10	Companion Sensitivity	BM	0%	240 hrs	Mon 11/13/06	Tue 1/9/07	
162	3.1.1.11	Observing Efficiency	DLM	25%	100 hrs	Mon 2/5/07	Fri 3/16/07	
163	3.1.1.12	Observing Uptime	EJ	25%	80 hrs	Mon 11/5/07	Wed 12/12/07	
164	3.1.1.13	Performance Budgets Summary		0%	160 hrs	Wed 1/31/07	Fri 7/20/07	
165	3.1.1.13.1	Performance Budgets Summary Ver 1	RD	0%	100 hrs	Wed 1/31/07	Tue 2/27/07	
166	3.1.1.13.2	Performance Budgets Summary Ver 2	RD	0%	60 hrs	Mon 7/2/07	Fri 7/20/07	
167	3.1.1.14	Science Products		0%	350 hrs	Mon 7/23/07	Fri 10/19/07	

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168	3.1.1.14.1	All-In Science Simulations	CN	0%	160 hrs	Mon 7/23/07	Fri 8/17/07	
169	3.1.1.14.2	Additional Science Characterization Results		0%	190 hrs	Mon 8/20/07	Fri 10/19/07	
170	3.1.1.14.2.1	Point Source Sensitivities	AB	0%	30 hrs	Mon 8/20/07	Thu 9/13/07	
171	3.1.1.14.2.2	PSF Uniformity & Stability	CN	0%	80 hrs	Mon 8/20/07	Fri 9/7/07	
172	3.1.1.14.2.3	Other	RF	0%	80 hrs	Mon 10/1/07	Fri 10/19/07	
173	3.1.2	Trade Studies	RD	2%	1,790 hrs	Mon 10/16/06	Fri 5/25/07	
174	3.1.2.1	System Architecture Trade Studies		0%	690 hrs	Mon 10/16/06	Fri 3/30/07	
175	3.1.2.1.1	MOAO & MCAO TS	DG	0%	80 hrs	Mon 11/13/06	Fri 12/15/06	
176	3.1.2.1.2	NGAO versus Keck AO upgrades TS (meeting 5)	PW	0%	100 hrs	Mon 2/5/07	Fri 3/2/07	
177	3.1.2.1.3	Adaptive Secondary Mirror option TS (m5)	PW	0%	40 hrs	Mon 3/5/07	Fri 3/30/07	
178	3.1.2.1.4	K & L-band Science TS (m5)	AB	0%	40 hrs	Mon 2/5/07	Fri 3/2/07	
179	3.1.2.1.5	Keck Interferometer Support TS (m5)	CN	0%	120 hrs	Mon 10/16/06	Fri 3/2/07	
180	3.1.2.1.6	Instrument Balance TS	SA	0%	10 hrs	Mon 11/13/06	Fri 12/8/06	
181	3.1.2.1.7	GLAO for non-NGAO Instruments TS (m5)	RF	0%	20 hrs	Mon 2/5/07	Fri 3/2/07	
182	3.1.2.1.8	Science Instrument Re-use Cost/Benefit TS (m3)	SA	0%	120 hrs	Mon 11/13/06	Fri 12/8/06	
183	3.1.2.1.9	Telescope Wavefront Errors TS	CN	0%	80 hrs	Mon 12/4/06	Wed 12/20/06	
184	3.1.2.1.10	Observing Model TS	DLM	0%	80 hrs	Mon 11/13/06	Fri 1/12/07	
185	3.1.2.2	Adaptive Optics System Trade Studies		1%	880 hrs	Mon 10/30/06	Fri 5/25/07	
186	3.1.2.2.1	AO Enclosure Temperature TS (m6)	AB	0%	70 hrs	Tue 1/2/07	Fri 4/13/07	
187	3.1.2.2.2	Optical Relay TS (m6)	RD	0%	60 hrs	Tue 1/2/07	Fri 4/13/07	
188	3.1.2.2.3	Field Rotation Strategy TS (m6)	BB	0%	80 hrs	Tue 1/2/07	Fri 4/13/07	
189	3.1.2.2.4	Dichroics & Beamsplitters TS (m6)	VV	0%	60 hrs	Tue 1/2/07	Fri 4/13/07	
190	3.1.2.2.5	Rayleigh Rejection TS (m3)	SK	25%	40 hrs	Mon 10/30/06	Fri 12/8/06	
191	3.1.2.2.6	LGS WFS Type TS (m4)	VV	0%	30 hrs	Mon 12/4/06	Fri 1/19/07	
192	3.1.2.2.7	LGS WFS number of subapertures TS (m4)	VV	0%	20 hrs	Mon 12/4/06	Fri 1/19/07	
193	3.1.2.2.8	Slow WFS TS (m7)	VV	0%	80 hrs	Mon 4/23/07	Fri 5/25/07	
194	3.1.2.2.9	LOWFS Architecture TS	SK	0%	160 hrs	Mon 12/4/06	Fri 2/9/07	
195	3.1.2.2.10	Number & Type of LOWFS TS (m4)	SK	0%	60 hrs	Mon 12/4/06	Fri 1/26/07	

Project: NGAO System Design Phase Date: Wed 11/22/06	Critical		Baseline		Project Summary	
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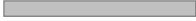










ID	WBS	Task Name	Lead	% Complete	Work	Start	Finish	
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196	3.1.2.2.11	Centroid Anisoplanatism TS (m7)	SK	0%	40 hrs	Mon 4/23/07	Fri 5/25/07	
197	3.1.2.2.12	Deformable Mirror Stroke Requirement TS (m6)	RF	0%	50 hrs	Tue 1/2/07	Fri 4/13/07	
198	3.1.2.2.13	Stand-alone vs DM on T/T Stage TS (m3)	BB	0%	60 hrs	Mon 10/30/06	Fri 12/8/06	
199	3.1.2.2.14	Correcting Fast T/T with DM TS	BB	0%	40 hrs	Mon 10/30/06	Fri 12/8/06	
200	3.1.2.2.15	Focus Compensation TS (m6)	SK	0%	30 hrs	Mon 1/22/07	Thu 5/3/07	
201	3.1.2.3	Laser Facility Trade Studies		23%	220 hrs	Mon 10/16/06	Mon 3/5/07	
202	3.1.2.3.1	Laser Pulse Format TS (m6)	VV	0%	80 hrs	Tue 1/2/07	Mon 1/29/07	
203	3.1.2.3.2	Free Space vs Fiber TS (m7)	CN	0%	100 hrs	Tue 1/30/07	Mon 3/5/07	
204	3.1.2.3.3	LGS Asterism Geometry & Size TS (m2)	RF	75%	20 hrs	Mon 10/23/06	Fri 10/27/06	
205	3.1.2.3.4	Variable vs fixed LGS Asterism Cost/Benefit TS (m2)	VV	100%	20 hrs	Mon 10/16/06	Fri 10/27/06	
206	3.1.3	System Architecture	RD	0%	1,120 hrs	Wed 2/28/07	Fri 12/28/07	
207	3.1.3.1	System Architecture Ver 1	RD	0%	80 hrs	Wed 2/28/07	Wed 4/18/07	
208	3.1.3.2	System Architecture Ver 2	RD	0%	60 hrs	Mon 7/23/07	Fri 8/17/07	
209	3.1.3.3	Functional Requirements		0%	860 hrs	Thu 4/19/07	Fri 11/30/07	
210	3.1.3.3.1	AO System Functional Requirements Ver 1	CN	0%	200 hrs	Thu 4/19/07	Mon 5/14/07	
211	3.1.3.3.2	AO System Functional Requirements Ver 2	CN	0%	100 hrs	Mon 10/29/07	Fri 11/30/07	
212	3.1.3.3.3	Laser System Functional Requirements Ver 1	JC	0%	135 hrs	Thu 4/19/07	Wed 5/16/07	
213	3.1.3.3.4	Laser System Functional Requirements Ver 2	JC	0%	65 hrs	Mon 10/29/07	Fri 11/30/07	
214	3.1.3.3.5	Science Operations Functional Requirements Ver 1	DLM	0%	100 hrs	Thu 4/19/07	Tue 5/22/07	
215	3.1.3.3.6	Science Operations Functional Requirements Ver 2	DLM	0%	100 hrs	Mon 10/29/07	Fri 11/30/07	
216	3.1.3.3.7	Science Instruments Function Allocation Ver 1	SA	0%	80 hrs	Thu 4/19/07	Mon 5/14/07	
217	3.1.3.3.8	Science Instruments Function Allocation Ver 2	SA	0%	80 hrs	Mon 10/29/07	Wed 11/14/07	
218	3.1.3.4	Technology Drivers Summary	DG	0%	40 hrs	Mon 7/23/07	Thu 7/26/07	
219	3.1.3.5	Technical Risk Analysis Ver 1	DG	0%	40 hrs	Thu 7/26/07	Tue 8/28/07	
220	3.1.3.6	Technical Risk Analysis Ver 2	DG	0%	40 hrs	Mon 12/3/07	Fri 12/28/07	
221	3.2	AO System	DG	0%	1,780 hrs	Mon 3/5/07	Fri 12/14/07	
222	3.2.1	AO System Architecture	DG	0%	240 hrs	Thu 4/19/07	Wed 6/20/07	
223	3.2.2	AO Enclosure	JM	0%	100 hrs	Mon 5/14/07	Fri 8/17/07	

Project: NGAO System Design Phase Date: Wed 11/22/06	Critical		Baseline		Project Summary	
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								J
224	3.2.3	Opto-mechanical	BB	0%	700 hrs	Mon 4/2/07	Fri 12/14/07	
225	3.2.3.1	Field Rotation	BB	0%	45 hrs	Mon 4/16/07	Wed 8/8/07	
226	3.2.3.2	Optical Relay	BB	0%	60 hrs	Mon 4/16/07	Wed 8/15/07	
227	3.2.3.3	Optical Switchyard	BB	0%	50 hrs	Mon 4/16/07	Fri 6/29/07	
228	3.2.3.4	Optical Support Structure	BB	0%	45 hrs	Mon 10/1/07	Fri 11/16/07	
229	3.2.3.5	Wavefront Sensors	VV	0%	240 hrs	Mon 5/7/07	Wed 12/12/07	
230	3.2.3.5.1	High Order LGS Wavefront Sensors	VV	0%	80 hrs	Mon 5/7/07	Wed 12/12/07	
231	3.2.3.5.2	High Order NGS Wavefront Sensor	VV	0%	40 hrs	Mon 5/7/07	Wed 12/12/07	
232	3.2.3.5.3	Low Order NGS Wavefront Sensors	SK	0%	80 hrs	Mon 5/7/07	Wed 12/12/07	
233	3.2.3.5.4	Calibration Wavefront Sensor	SK	0%	40 hrs	Mon 5/28/07	Wed 12/12/07	
234	3.2.3.6	Wavefront Correctors	BB	0%	140 hrs	Mon 4/2/07	Fri 11/30/07	
235	3.2.3.6.1	Tip/Tilt Corrector	BB	0%	20 hrs	Mon 10/1/07	Fri 11/30/07	
236	3.2.3.6.2	Deformable Mirror	BB	0%	120 hrs	Mon 4/2/07	Fri 6/29/07	
237	3.2.3.7	Acquisition Cameras	AB	0%	40 hrs	Mon 10/1/07	Fri 10/26/07	
238	3.2.3.7.1	NGS Acquisition Camera	AB	0%	20 hrs	Mon 10/1/07	Fri 10/26/07	
239	3.2.3.7.2	LGS Acquisition Camera	AB	0%	20 hrs	Mon 10/1/07	Fri 10/26/07	
240	3.2.3.8	Atmospheric Dispersion Correction	SK	0%	20 hrs	Mon 8/20/07	Fri 12/14/07	
241	3.2.3.9	Alignment, Calibration, Diagnostics, Metrology and Monitoring	CN	0%	60 hrs	Mon 4/2/07	Fri 6/29/07	
242	3.2.4	Non-real-time Control	JC	0%	400 hrs	Mon 6/25/07	Fri 11/23/07	
243	3.2.4.1	Non-RTC Software	EJ	0%	200 hrs	Mon 6/25/07	Fri 8/31/07	
244	3.2.4.2	Non-RTC Electronics	JC	0%	200 hrs	Mon 7/23/07	Fri 11/23/07	
245	3.2.5	Real-time Control	DG	0%	340 hrs	Mon 3/5/07	Tue 8/7/07	
246	3.2.5.1	RTC Architecture Analysis and Design Study	DG	0%	180 hrs	Mon 3/5/07	Fri 5/4/07	
247	3.2.5.2	RTC Software Module Definition	EJ	0%	80 hrs	Mon 5/7/07	Tue 8/7/07	
248	3.2.5.3	RTC Hardware Module Definition	MR	0%	80 hrs	Mon 5/7/07	Tue 8/7/07	
249	3.3	Laser Facility		0%	750 hrs	Tue 3/6/07	Fri 12/14/07	
250	3.3.1	Laser System Architecture	VV	0%	80 hrs	Tue 3/6/07	Mon 5/14/07	
251	3.3.2	Laser Enclosure	JM	0%	80 hrs	Tue 5/15/07	Thu 7/12/07	

Project: NGAO System Design Phase Date: Wed 11/22/06	Critical		Baseline		Project Summary	
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252	3.3.3	Laser	VV	0%	100 hrs	Tue 5/15/07	Mon 7/2/07	
253	3.3.4	Laser Launch Facility	VV	0%	300 hrs	Mon 4/9/07	Fri 6/1/07	
254	3.3.4.1	Laser Beam Transport	CN	0%	60 hrs	Mon 4/9/07	Fri 6/1/07	
255	3.3.4.2	Laser Pointing & Diagnostics	VV	0%	120 hrs	Mon 4/9/07	Fri 6/1/07	
256	3.3.4.3	Laser Launch Telescope	VV	0%	120 hrs	Mon 4/9/07	Fri 6/1/07	
257	3.3.5	Laser Safety Systems	JC	0%	40 hrs	Mon 10/8/07	Fri 11/2/07	
258	3.3.5.1	Personnel and Equipment Safety Systems	JC	0%	20 hrs	Mon 10/8/07	Fri 11/2/07	
259	3.3.5.2	Aircraft, Satellite & Laser Traffic Control Safety Systems	JC	0%	20 hrs	Mon 10/8/07	Fri 11/2/07	
260	3.3.6	Laser System Control	JC	0%	150 hrs	Mon 10/1/07	Fri 12/14/07	
261	3.3.6.1	Laser System Software	EJ	0%	80 hrs	Mon 10/1/07	Fri 12/14/07	
262	3.3.6.2	Laser System Electronics	JC	0%	70 hrs	Mon 10/1/07	Fri 12/14/07	
263	3.4	Science Operations	DLM	0%	670 hrs	Tue 1/2/07	Fri 12/14/07	
264	3.4.1	Astronomical Observations Operations	DLM	0%	220 hrs	Thu 3/1/07	Fri 12/14/07	
265	3.4.1.1	Pre-Observing Interfaces		0%	60 hrs	Tue 5/1/07	Wed 5/30/07	
266	3.4.1.1.1	AO Guide Star Interface		0%	20 hrs	Tue 5/1/07	Wed 5/30/07	
267	3.4.1.1.2	Science Observations Simulation Tools		0%	40 hrs	Tue 5/1/07	Wed 5/30/07	
268	3.4.1.2	Observing Interfaces		0%	80 hrs	Thu 3/1/07	Fri 12/14/07	
269	3.4.1.2.1	Acquisition		0%	20 hrs	Thu 3/1/07	Mon 4/30/07	
270	3.4.1.2.2	Observing Sequences		0%	20 hrs	Thu 3/1/07	Mon 4/30/07	
271	3.4.1.2.3	Instrument, AO & Telescope Observer Interfaces		0%	20 hrs	Thu 3/1/07	Mon 4/30/07	
272	3.4.1.2.4	Science Data Quality Monitoring		0%	20 hrs	Wed 10/17/07	Fri 12/14/07	
273	3.4.1.3	Post-Observing Interfaces		0%	80 hrs	Mon 10/1/07	Tue 11/27/07	
274	3.4.1.3.1	Generic Data Products		0%	20 hrs	Mon 10/1/07	Tue 11/27/07	
275	3.4.1.3.2	Science Data Quality Assessment		0%	20 hrs	Mon 10/1/07	Tue 11/27/07	
276	3.4.1.3.3	Science Data Archiving		0%	40 hrs	Mon 10/1/07	Tue 11/27/07	
277	3.4.2	AO-Instrument Operations	DLM	0%	450 hrs	Tue 1/2/07	Fri 10/26/07	
278	3.4.2.1	AO-Instrument Operations Architecture	DLM	0%	270 hrs	Tue 1/2/07	Fri 10/26/07	
279	3.4.2.1.1	AO-Instrument Observing Modes	DLM	0%	80 hrs	Tue 1/2/07	Fri 2/2/07	

Project: NGAO System Design Phase Date: Wed 11/22/06	Critical		Baseline		Project Summary	
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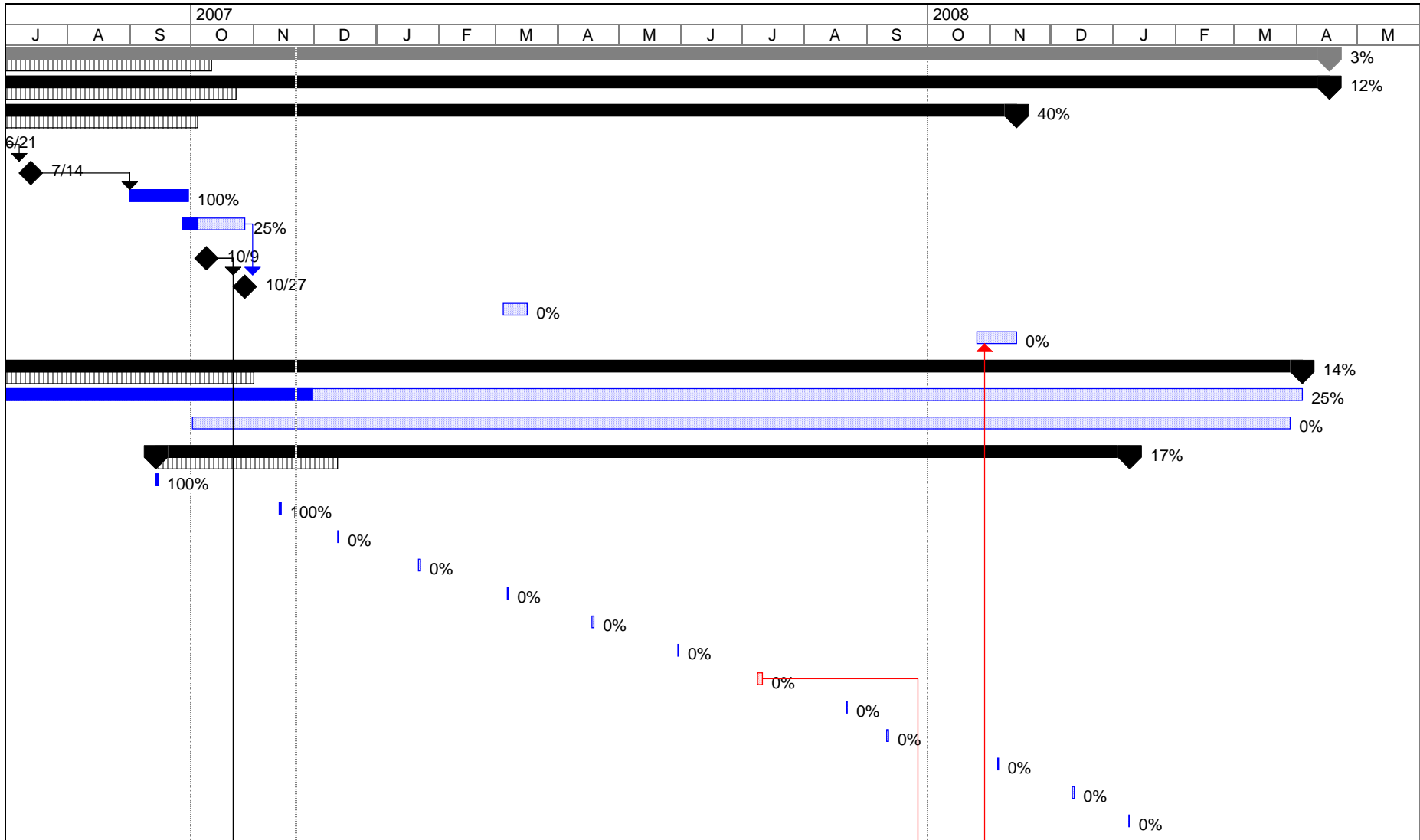
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280	3.4.2.1.2	AO-Instrument Operations Support		0%	20 hrs	Mon 2/5/07	Wed 5/30/07	
281	3.4.2.1.3	AO-Instrument Configuration & Setup		0%	20 hrs	Wed 7/4/07	Fri 10/26/07	
282	3.4.2.1.4	AO-Instrument Calibrations		0%	20 hrs	Mon 6/4/07	Wed 9/26/07	
283	3.4.2.1.5	AO-Instrument Nighttime Operation Modes		0%	20 hrs	Mon 6/4/07	Wed 9/26/07	
284	3.4.2.1.6	AO-Instrument Science Acquisition & Control		0%	20 hrs	Mon 7/2/07	Wed 10/24/07	
285	3.4.2.1.7	AO-Instrument Health Monitoring & Automated Recovery		0%	20 hrs	Mon 6/11/07	Wed 10/3/07	
286	3.4.2.1.8	AO-Instrument Laser Traffic Control	DS	0%	10 hrs	Mon 10/1/07	Fri 10/26/07	
287	3.4.2.1.9	AO-Instrument User Interfaces		0%	40 hrs	Mon 10/1/07	Fri 10/26/07	
288	3.4.2.1.10	AO-Instrument Maintenance Plan		0%	20 hrs	Mon 10/1/07	Fri 10/26/07	
289	3.4.2.2	AO-Instrument Operations Optimization		0%	180 hrs	Mon 3/5/07	Fri 5/4/07	
290	3.4.2.2.1	AO-Instrument Performance Prediction		0%	80 hrs	Mon 3/5/07	Fri 4/13/07	
291	3.4.2.2.2	AO-Instrument Real-Time Optimization		0%	80 hrs	Mon 3/5/07	Fri 4/13/07	
292	3.4.2.2.3	AO-Instrument Environment Monitoring		0%	20 hrs	Mon 4/16/07	Fri 5/4/07	
293	3.5	Science Instruments	SA	7%	1,290 hrs	Mon 10/2/06	Fri 11/16/07	
294	3.5.1	OSIRIS		0%	100 hrs	Fri 12/1/06	Mon 3/5/07	
295	3.5.2	Interferometer		25%	100 hrs	Mon 10/2/06	Fri 3/30/07	
296	3.5.3	OHANA		0%	40 hrs	Thu 2/1/07	Wed 4/11/07	
297	3.5.4	Near-IR Imager		0%	200 hrs	Mon 11/6/06	Fri 5/25/07	
298	3.5.5	Visible Imager		0%	200 hrs	Mon 5/14/07	Fri 11/9/07	
299	3.5.6	Visible IFU		0%	100 hrs	Mon 7/2/07	Fri 11/16/07	
300	3.5.7	Deployable Near-IR IFU		0%	500 hrs	Thu 2/1/07	Wed 6/27/07	
301	3.5.8	Thermal Near-IR Imager		25%	50 hrs	Mon 7/9/07	Fri 11/16/07	
302	3.6	System Design Manual	PW	0%	80 hrs	Tue 1/1/08	Fri 1/18/08	
303	4	Systems Engineering Management Plan (SEMP)	PW	0%	1,200 hrs	Mon 3/5/07	Wed 2/20/08	
304	4.1	Project Plan	PW	0%	540 hrs	Wed 9/26/07	Thu 12/20/07	
305	4.1.1	WBS and Task Definition	PW	0%	200 hrs	Wed 9/26/07	Thu 10/25/07	
306	4.1.2	Cost Estimation	PW	0%	220 hrs	Thu 10/25/07	Fri 11/30/07	
307	4.1.3	Major Project Milestones	PW	0%	30 hrs	Thu 10/25/07	Mon 11/5/07	

Project: NGAO System Design Phase Date: Wed 11/22/06	Critical		Baseline		Project Summary	
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308	4.1.4	Develop Full Schedule (MS Project Plan)	PW	0%	90 hrs	Fri 11/30/07	Thu 12/20/07	
309	4.2	Risk Assessment & Management Plan	DG	0%	40 hrs	Wed 9/26/07	Tue 11/13/07	
310	4.3	Preliminary Design Phase Plan	PW	0%	200 hrs	Mon 3/5/07	Thu 1/24/08	
311	4.3.1	Preliminary Design Phase Plan Version 1 (to Support Observatory FY	PW	0%	40 hrs	Mon 3/5/07	Fri 3/30/07	
312	4.3.2	Preliminary Design Phase Plan Version 2	PW	0%	80 hrs	Thu 10/25/07	Wed 11/21/07	
313	4.3.3	Preliminary Design Phase Plan Final Version	PW	0%	80 hrs	Thu 1/3/08	Thu 1/24/08	
314	4.4	Integration and Test Plans	CN	0%	180 hrs	Thu 10/25/07	Fri 2/1/08	
315	4.4.1	Subsystem Testing Plans	CN	0%	80 hrs	Thu 10/25/07	Fri 2/1/08	
316	4.4.1.1	AO System Test Plan	CN	0%	20 hrs	Thu 10/25/07	Tue 11/20/07	
317	4.4.1.2	Laser System Test Plan	CN	0%	20 hrs	Tue 11/20/07	Fri 12/14/07	
318	4.4.1.3	Science Operations Test Plan	CN	0%	20 hrs	Fri 12/14/07	Tue 1/8/08	
319	4.4.1.4	Science Instruments Test Plan	CN	0%	20 hrs	Tue 1/8/08	Fri 2/1/08	
320	4.4.2	System Integration & Test Plans	CN	0%	100 hrs	Thu 10/25/07	Thu 12/6/07	
321	4.5	Configuration Management Plan	JJ	0%	80 hrs	Thu 10/25/07	Tue 1/22/08	
322	4.6	Project Management Plan	PW	0%	80 hrs	Thu 12/20/07	Thu 1/17/08	
323	4.7	SEMP Document	PW	0%	80 hrs	Fri 2/1/08	Wed 2/20/08	

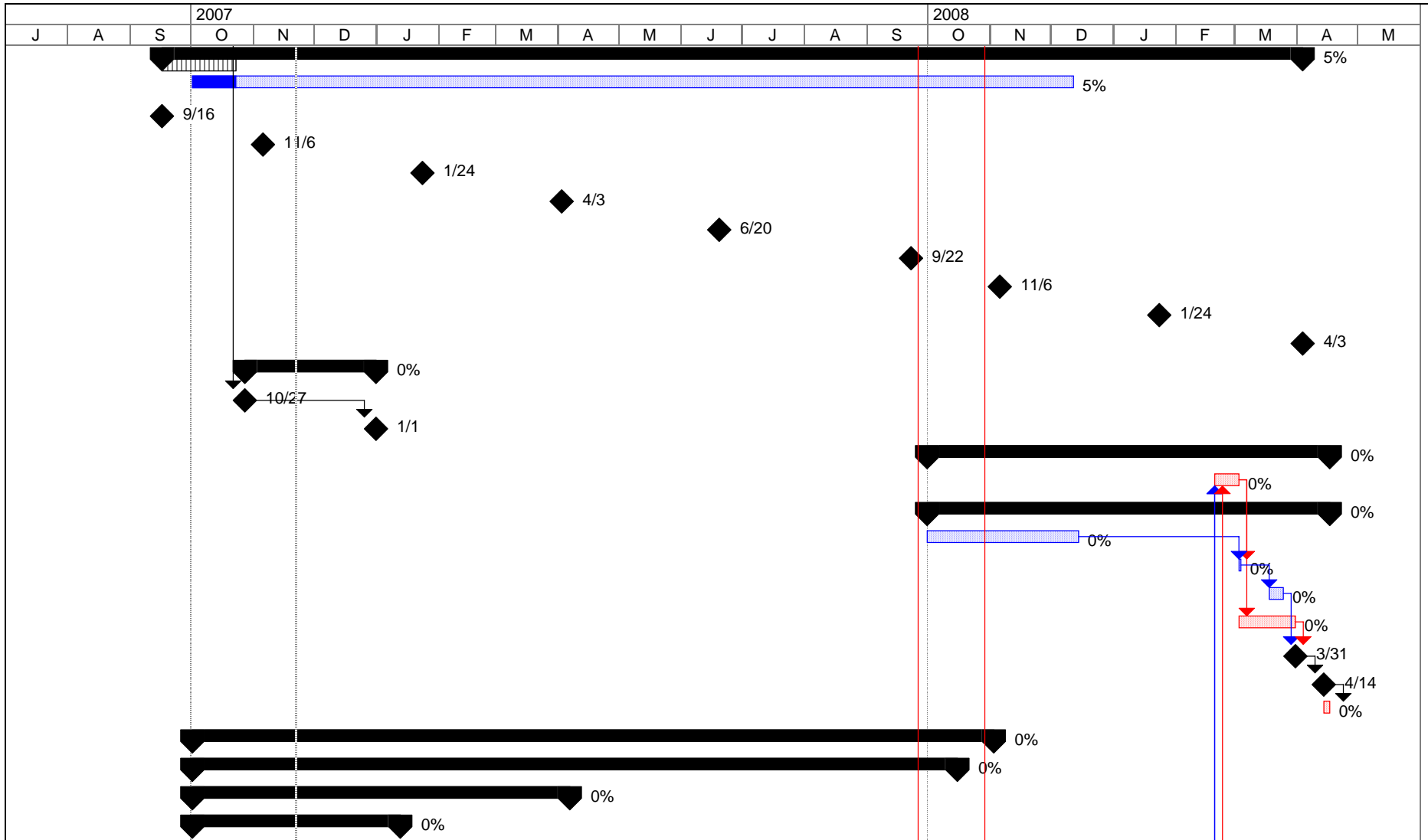
Project: NGAO System Design Phase
Date: Wed 11/22/06

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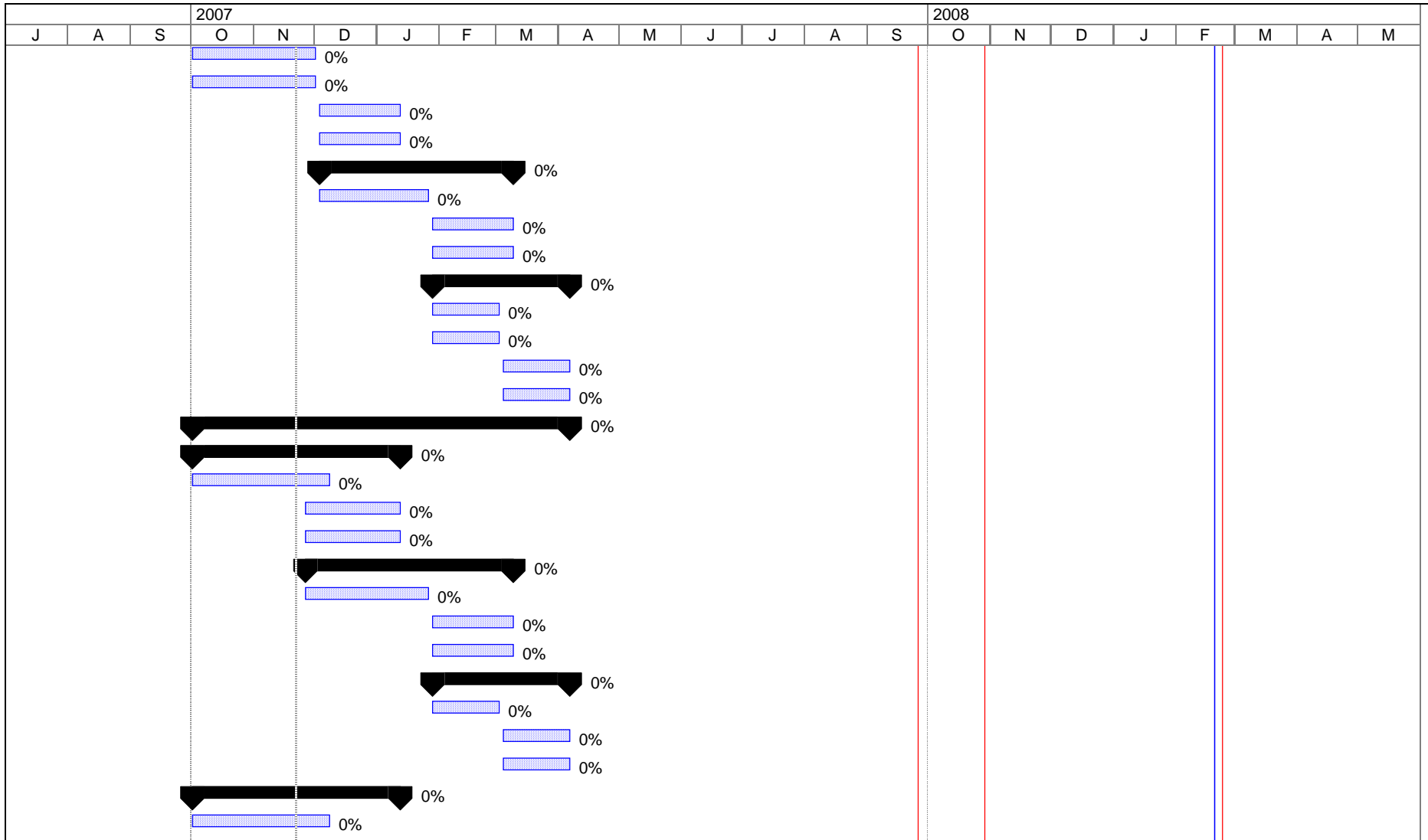
Project: NGAO System Design Phase
Date: Wed 11/22/06

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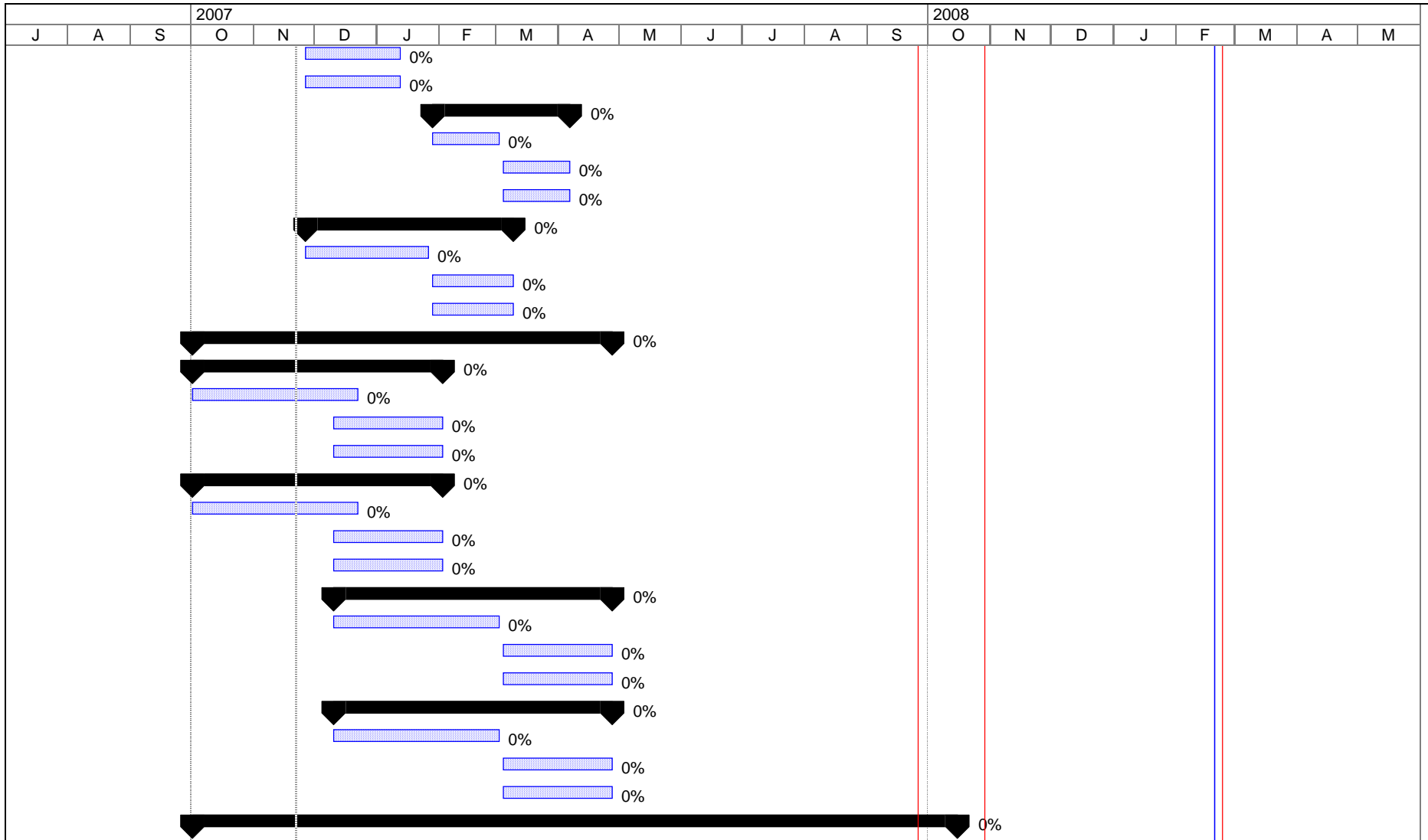
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Date: Wed 11/22/06

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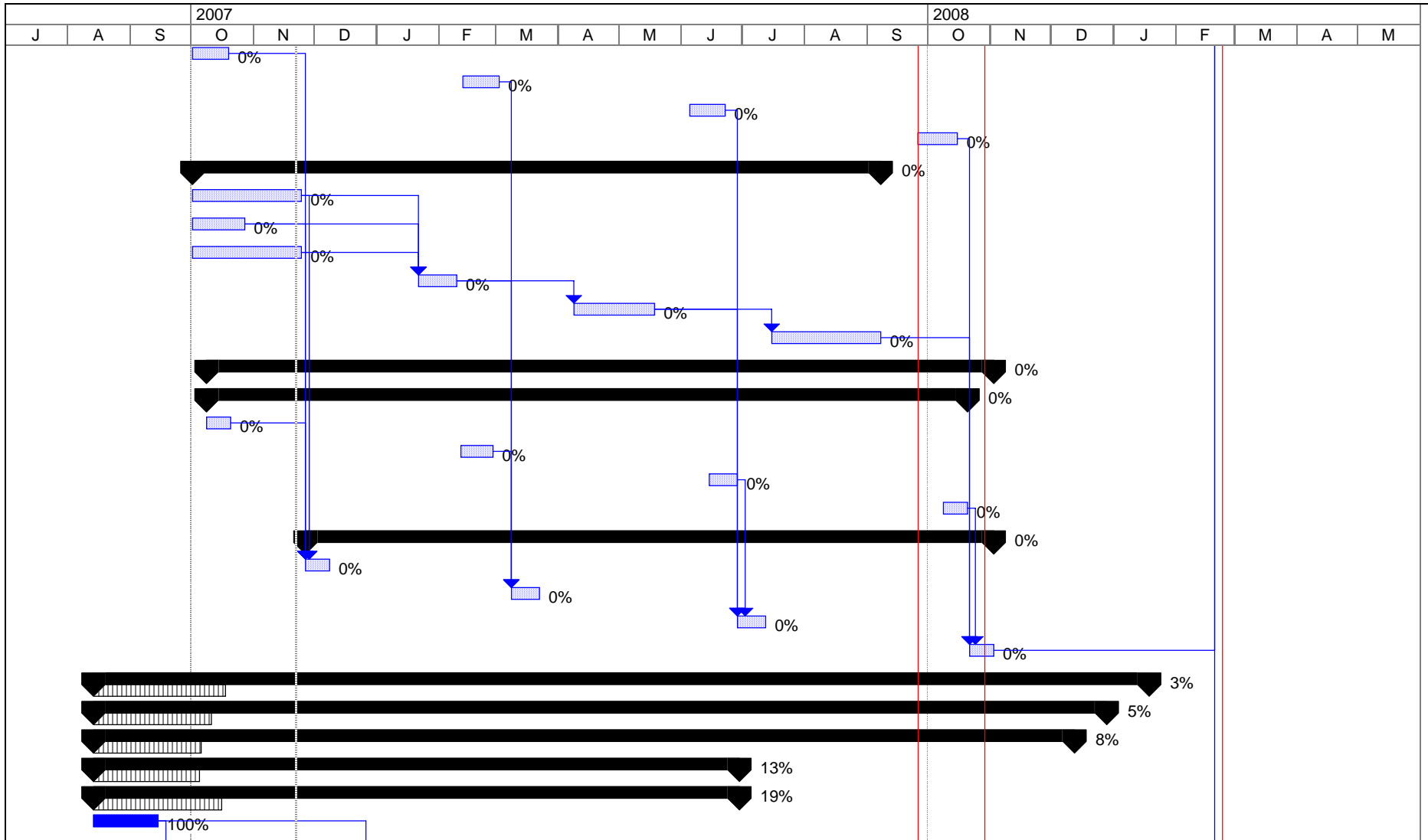
Project: NGAO System Design Phase
Date: Wed 11/22/06

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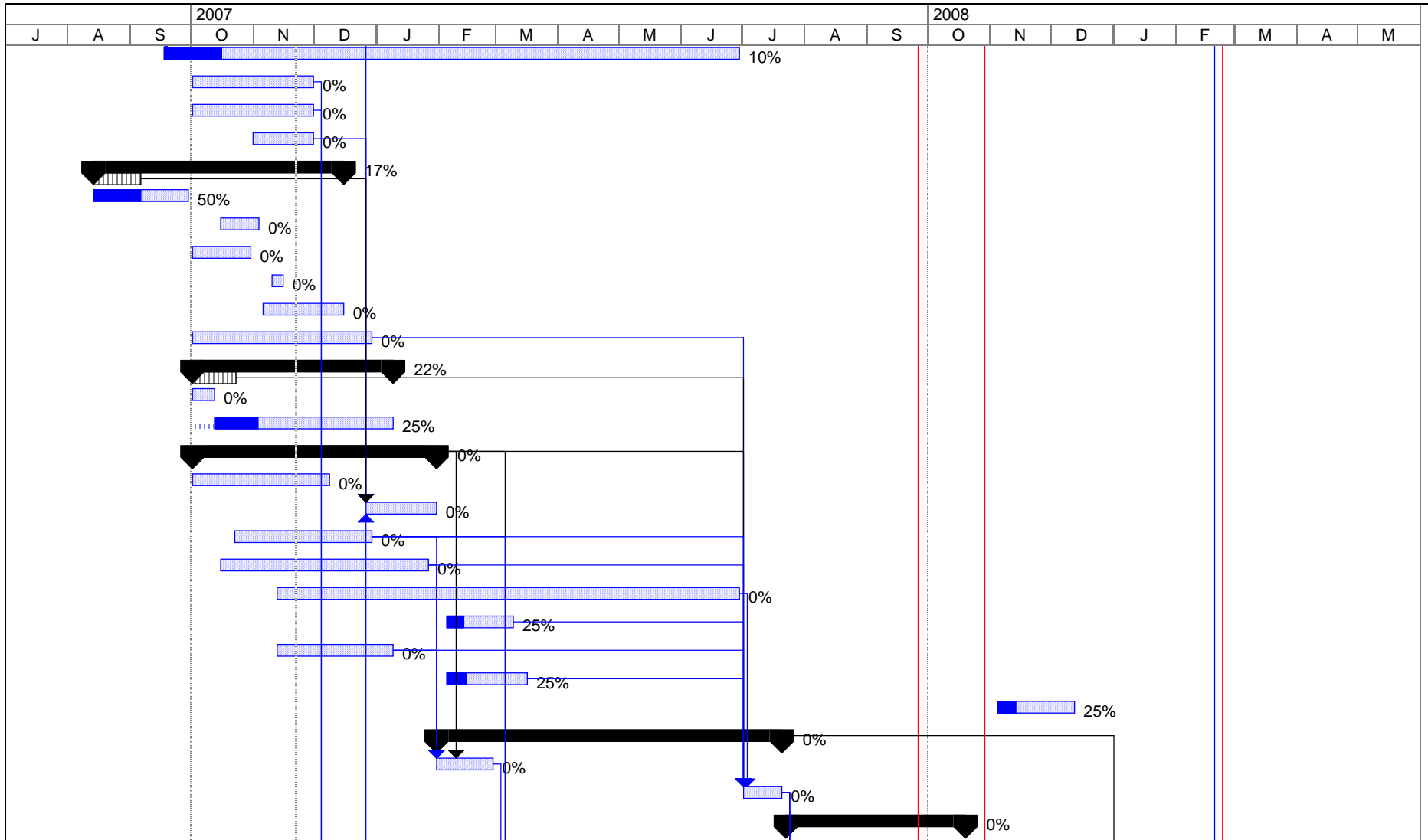
Project: NGAO System Design Phase
 Date: Wed 11/22/06

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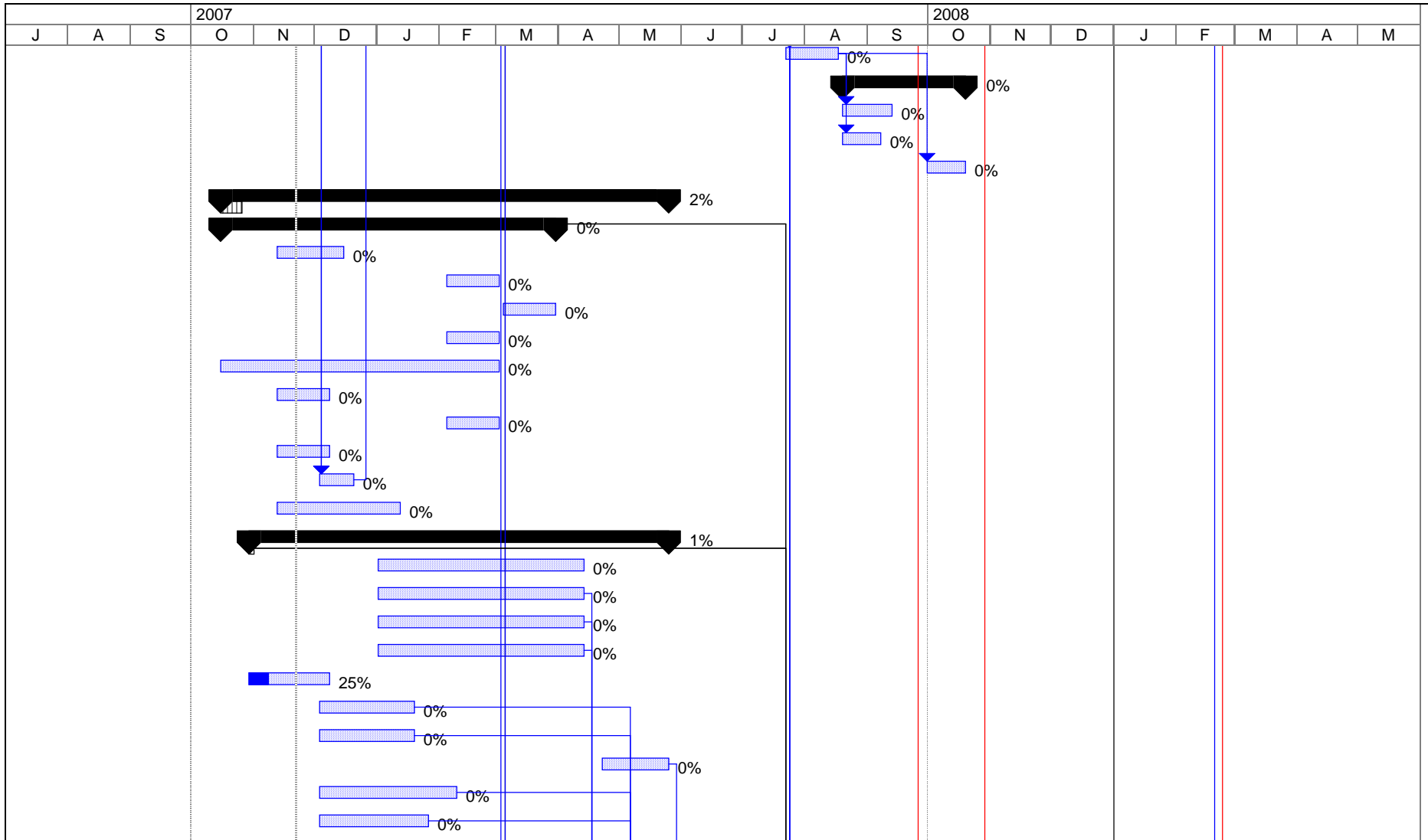
Project: NGAO System Design Phase
Date: Wed 11/22/06

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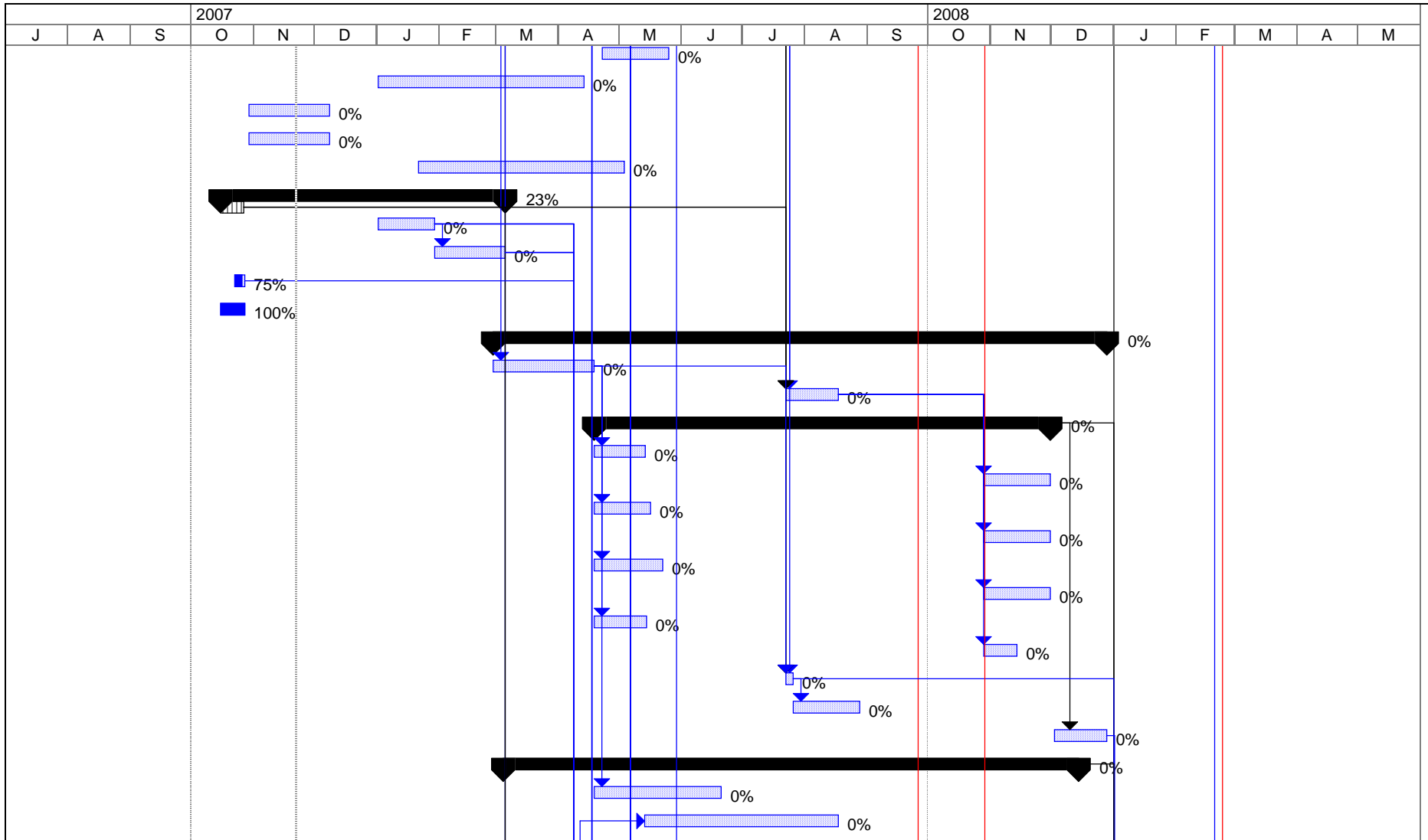
Project: NGAO System Design Phase
 Date: Wed 11/22/06

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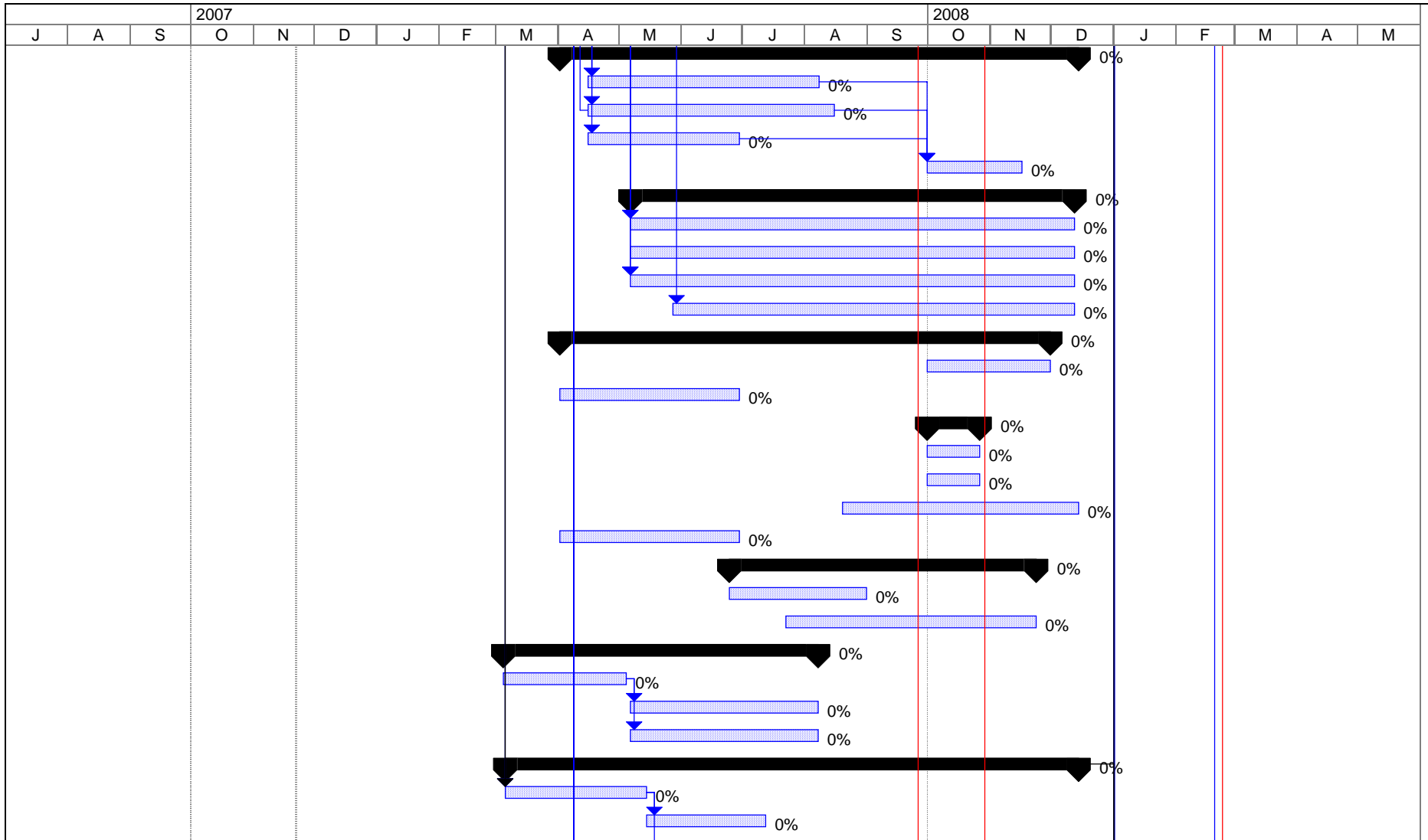
Project: NGAO System Design Phase
 Date: Wed 11/22/06

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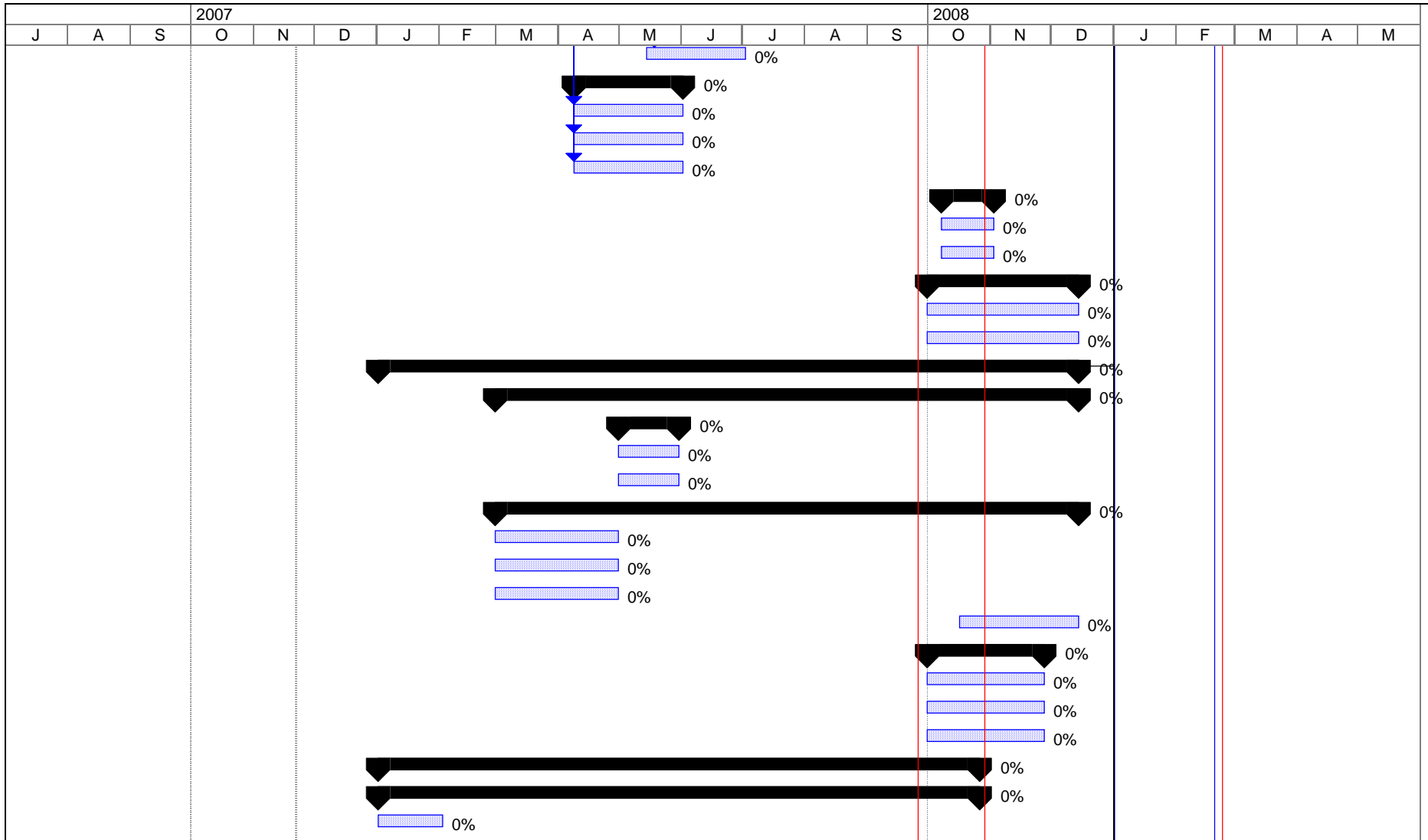
Project: NGAO System Design Phase
Date: Wed 11/22/06

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Split		Summary Progress			
Task Progress		Summary			

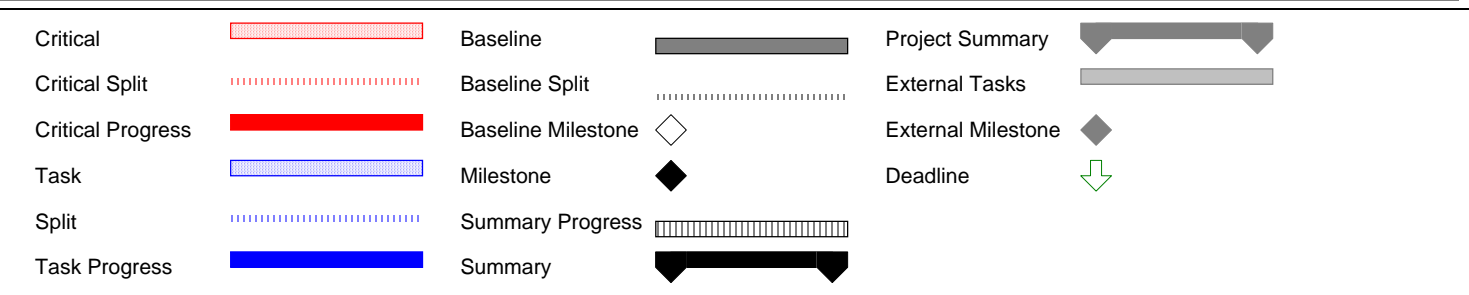


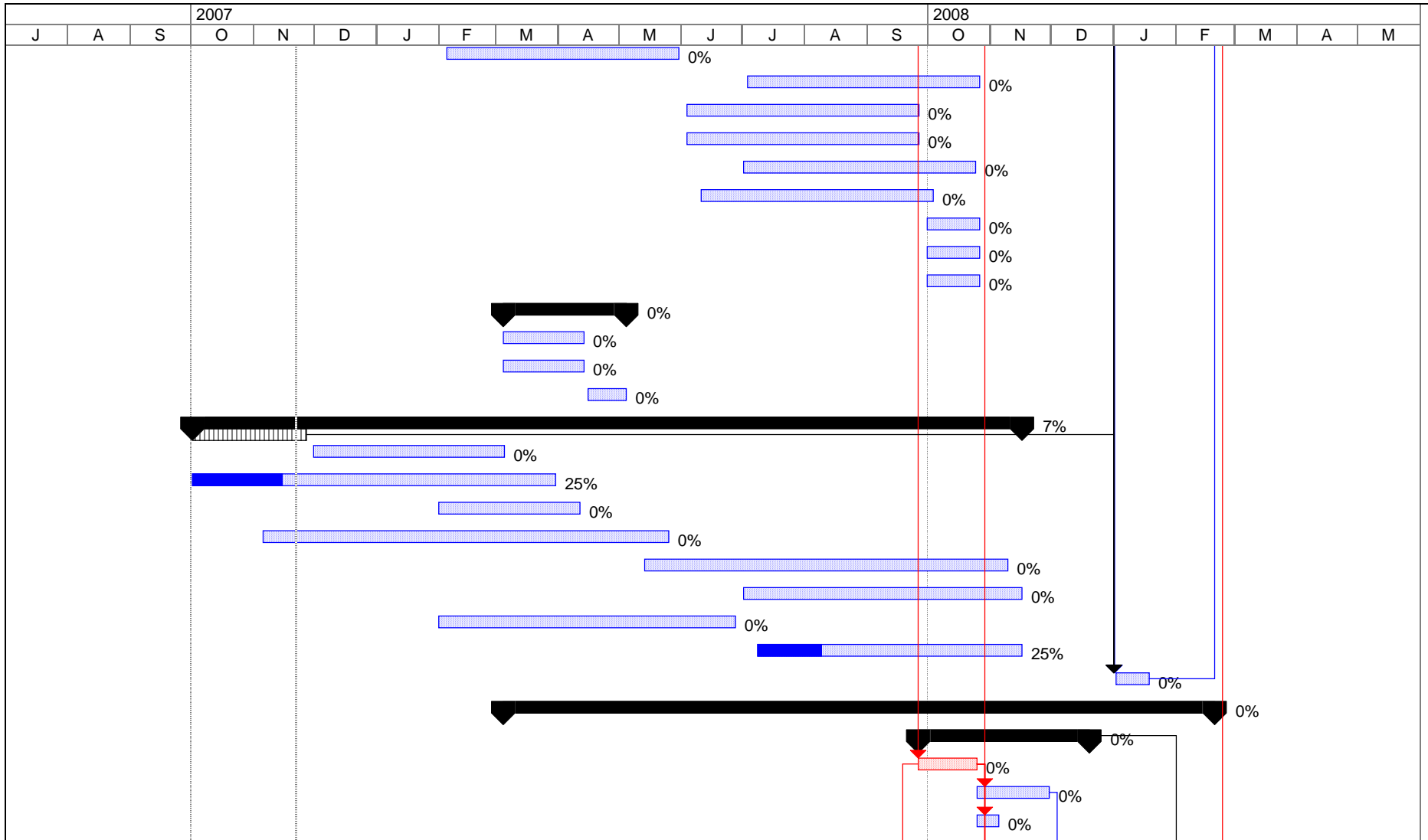
Project: NGAO System Design Phase
 Date: Wed 11/22/06

Critical		Baseline		Project Summary	
Critical Split		Baseline Split		External Tasks	
Critical Progress		Baseline Milestone		External Milestone	
Task		Milestone		Deadline	
Split		Summary Progress			
Task Progress		Summary			



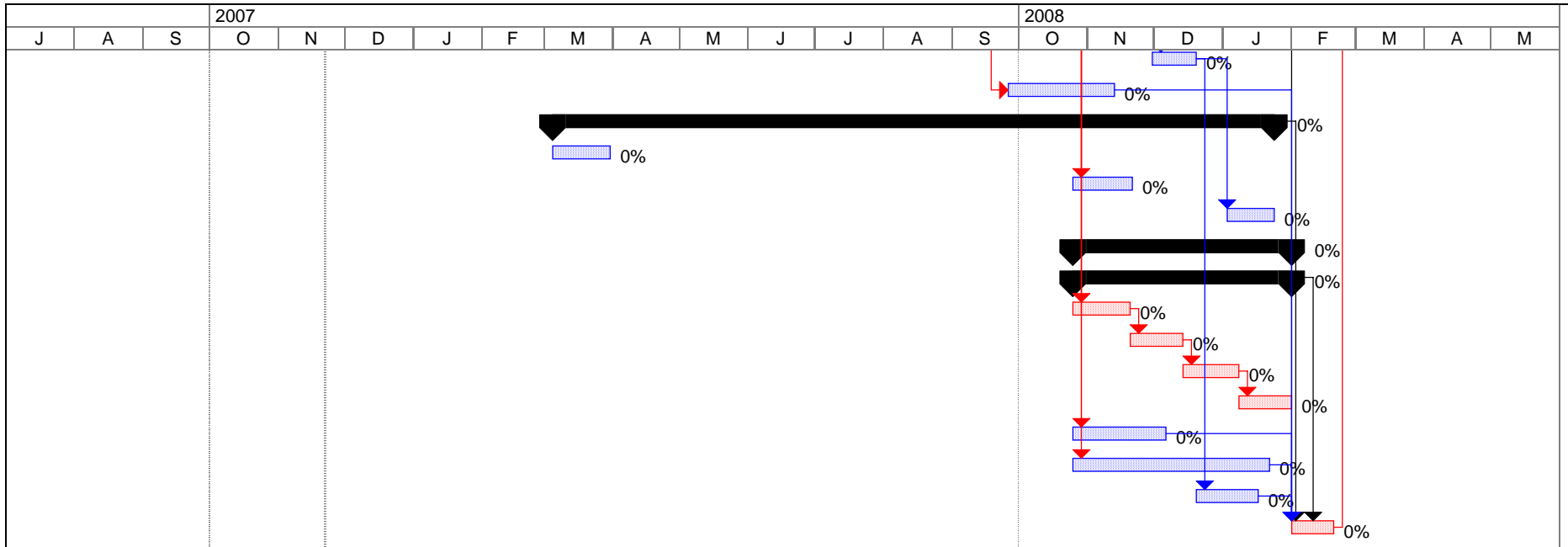
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Date: Wed 11/22/06

Critical		Baseline		Project Summary	
Critical Split		Baseline Split		External Tasks	
Critical Progress		Baseline Milestone		External Milestone	
Task		Milestone		Deadline	
Split		Summary Progress			
Task Progress		Summary			



Project: NGAO System Design Phase
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Critical		Baseline		Project Summary	
Critical Split		Baseline Split		External Tasks	
Critical Progress		Baseline Milestone		External Milestone	
Task		Milestone		Deadline	
Split		Summary Progress			
Task Progress		Summary			