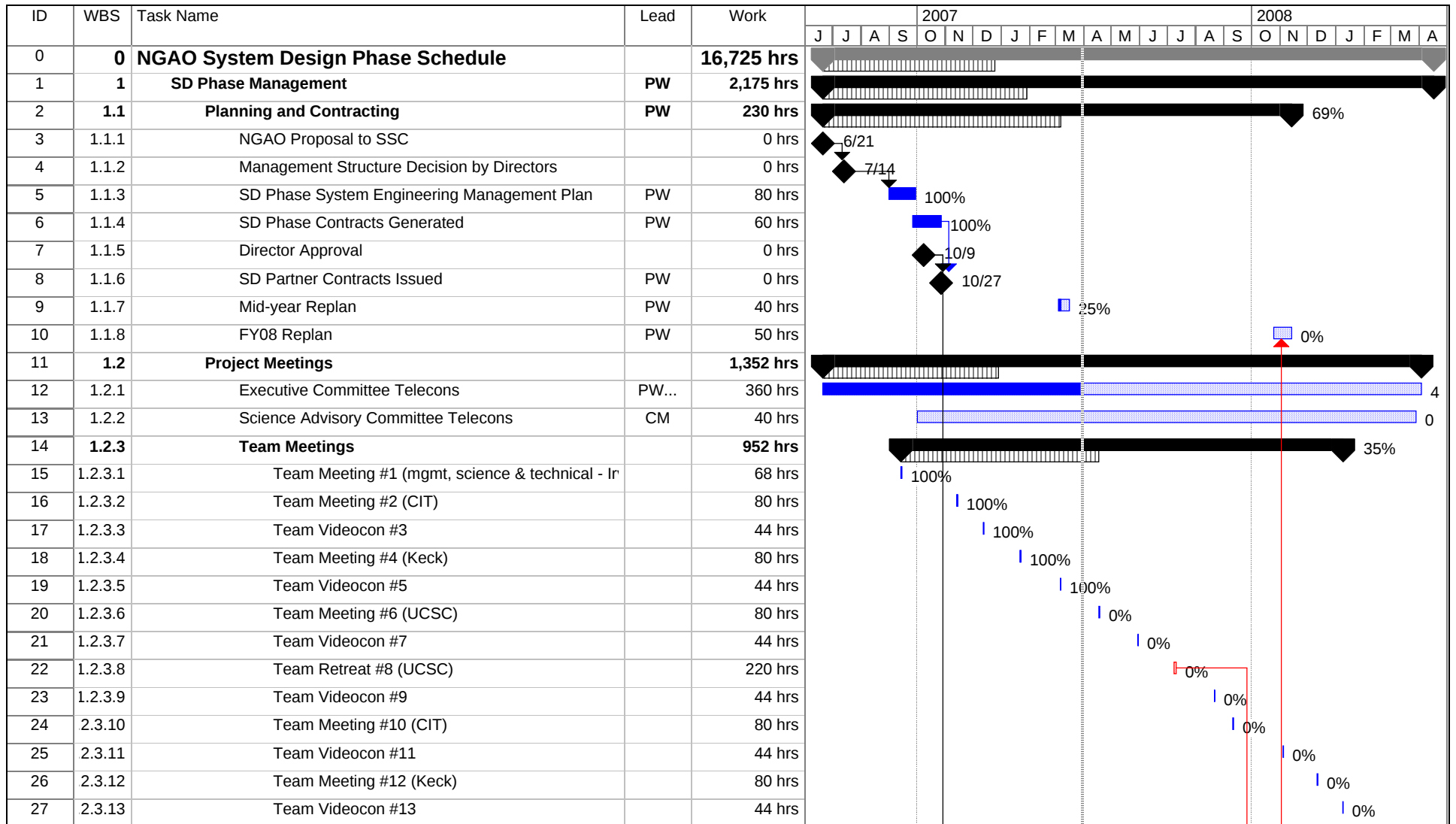
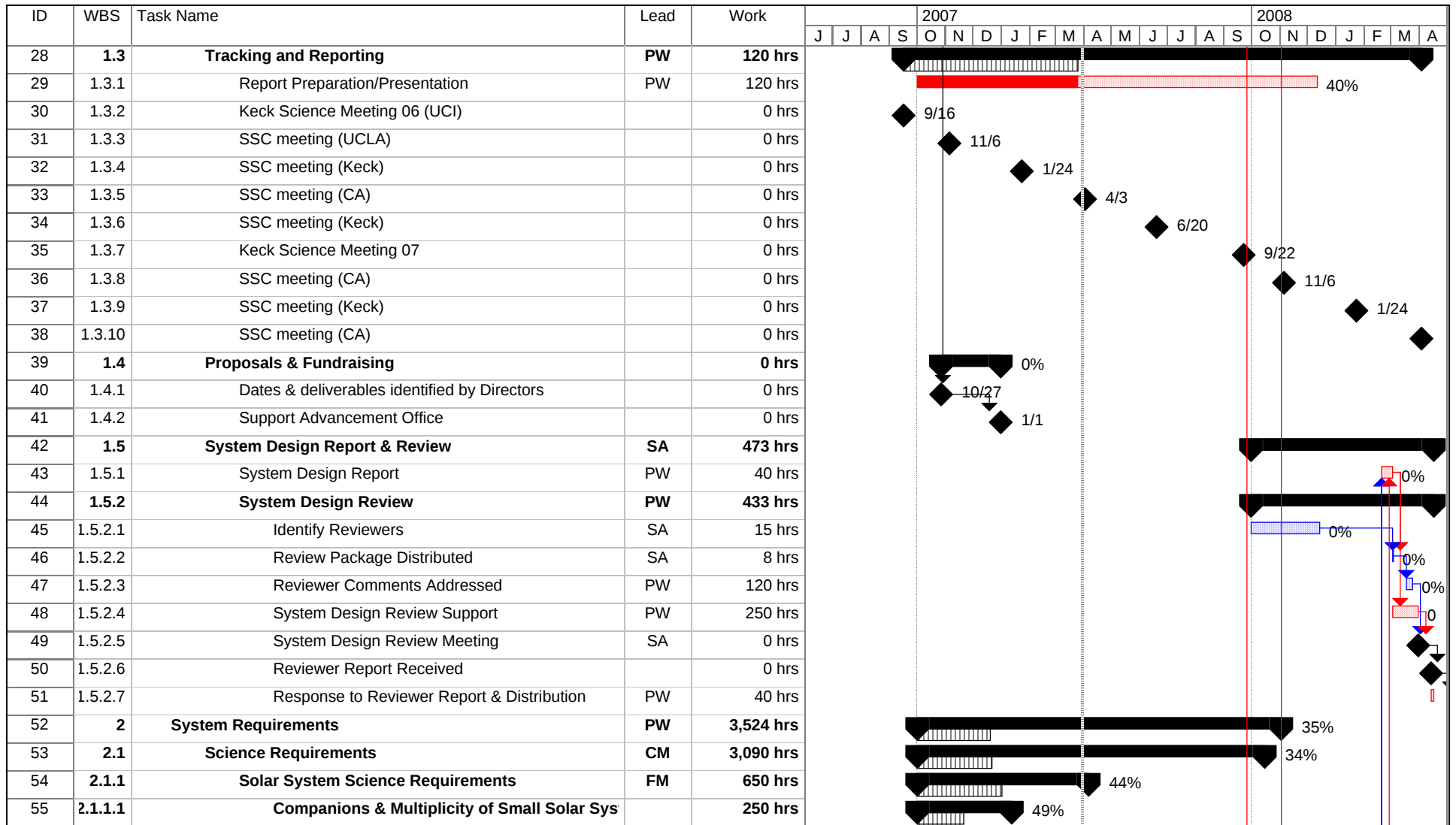




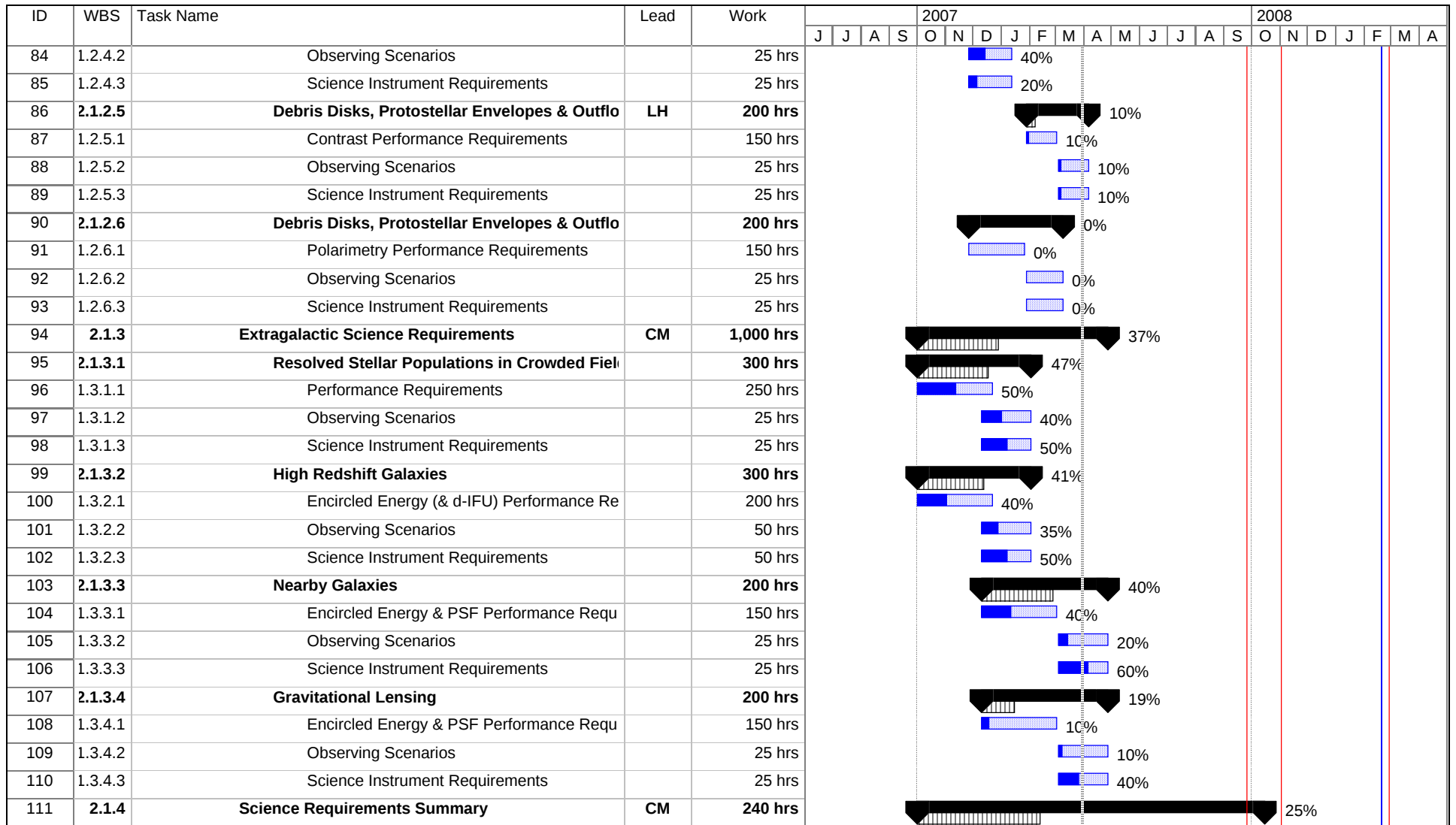
Project: NGAO System Design Phase Date: Fri 3/30/07	Critical		Baseline		Project Summary	
	Critical Split		Baseline Split		External Tasks	
	Critical Progress		Baseline Milestone		External Milestone	
	Task		Milestone		Deadline	
	Split		Summary Progress			
	Task Progress		Summary			



Project: NGAO System Design Phase Date: Fri 3/30/07	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			

ID	WBS	Task Name	Lead	Work	2007												2008											
					J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	
56	1.1.1.1	Point Source Companion Sensitivity Require		100 hrs																								
57	1.1.1.2	Spectral Sensitivity & Spectral Resolution Ri		100 hrs																								
58	1.1.1.3	Observing Scenarios		25 hrs																								
59	1.1.1.4	Science Instrument Requirements		25 hrs																								
60	2.1.1.2	Moons of the Giant Planets		150 hrs																								
61	1.1.2.1	Performance Requirements		100 hrs																								
62	1.1.2.2	Observing Scenarios		25 hrs																								
63	1.1.2.3	Science Instrument Requirements		25 hrs																								
64	2.1.1.3	Shape & Size of Asteroids		250 hrs																								
65	1.1.3.1	Spatial Resolution Requirements		100 hrs																								
66	1.1.3.2	Spectral Sensitivity & Spectral Resolution Ri		100 hrs																								
67	1.1.3.3	Observing Scenarios		25 hrs																								
68	1.1.3.4	Science Instrument Requirements		25 hrs																								
69	2.1.2	Galactic Science Requirements	ML	1,200 hrs																								
70	2.1.2.1	Galactic Center Proper Motions: Astrometry	AG	200 hrs																								
71	1.2.1.1	Astrometry requirements		150 hrs																								
72	1.2.1.2	Observing Scenarios		25 hrs																								
73	1.2.1.3	Science Instrument Requirements		25 hrs																								
74	2.1.2.2	Galactic Center Radial Velocities & Stellar Poi	AG	200 hrs																								
75	1.2.2.1	Performance Requirements		150 hrs																								
76	1.2.2.2	Observing Scenarios		25 hrs																								
77	1.2.2.3	Science Instrument Requirements		25 hrs																								
78	2.1.2.3	Galactic Center Nature of Sgr A*: 3-5 um Colo	AG	200 hrs																								
79	1.2.3.1	Performance Requirements		150 hrs																								
80	1.2.3.2	Observing Scenarios		25 hrs																								
81	1.2.3.3	Science Instrument Requirements		25 hrs																								
82	2.1.2.4	Planets around Low Mass Stars & Brown Dwa	ML	200 hrs																								
83	1.2.4.1	Companion Sensitivity Performance Require		150 hrs																								

Project: NGAO System Design Phase Date: Fri 3/30/07	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
Date: Fri 3/30/07

Critical

Critical Split

Critical Progress

Task

Split

Task Progress

Baseline

Baseline Split

Baseline Milestone

Milestone

Summary Progress

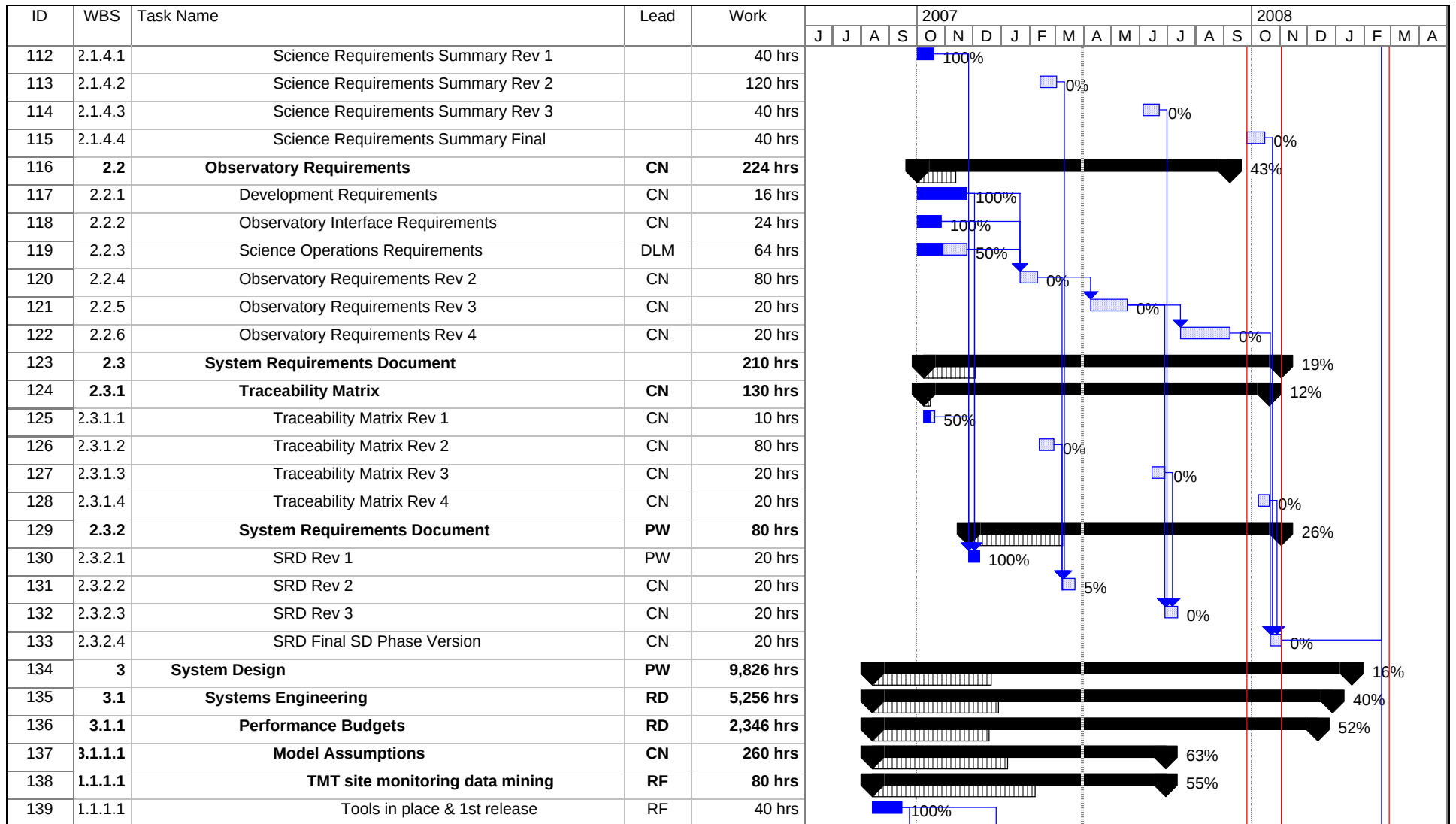
Summary

Project Summary

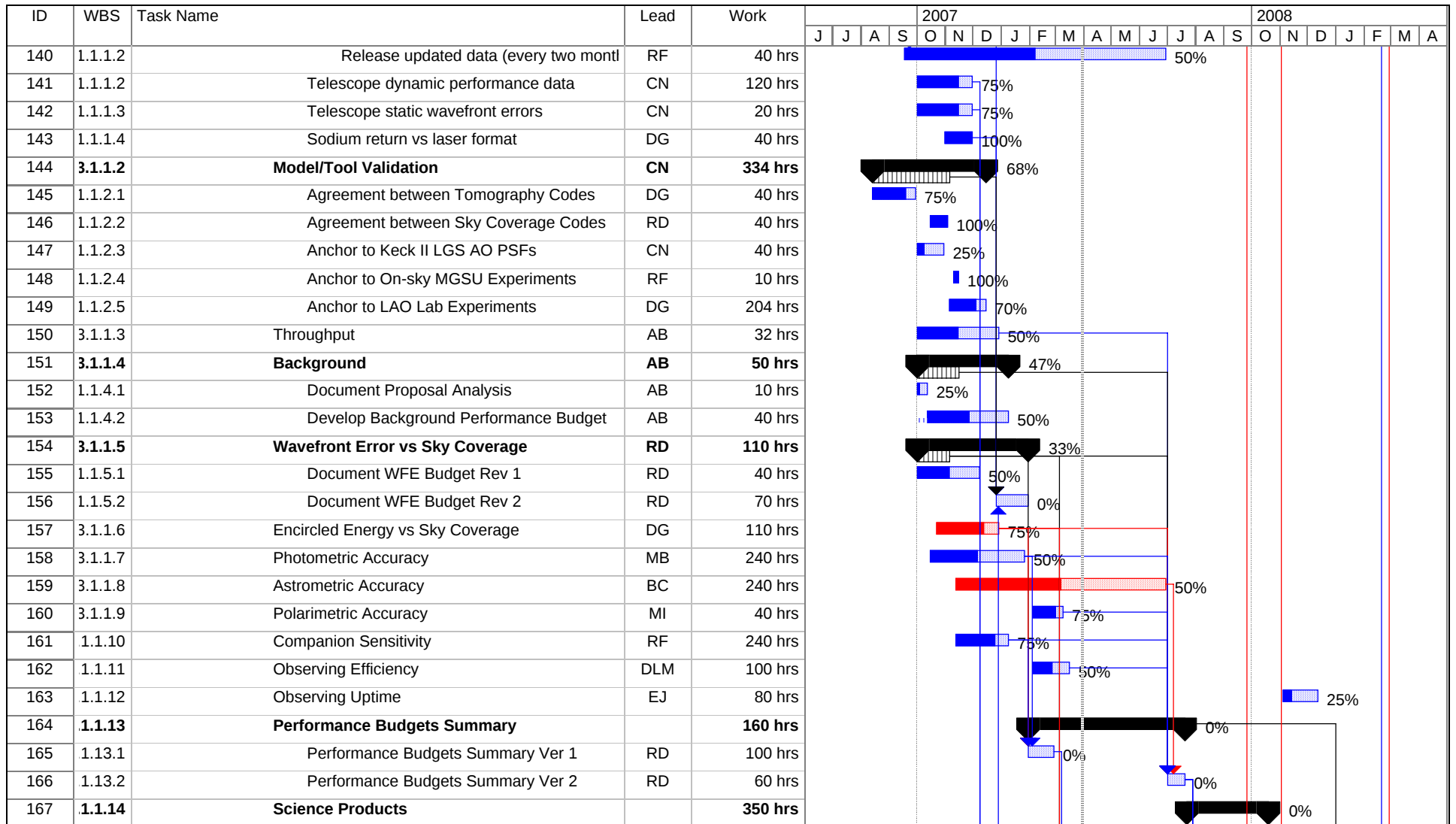
External Tasks

External Milestone

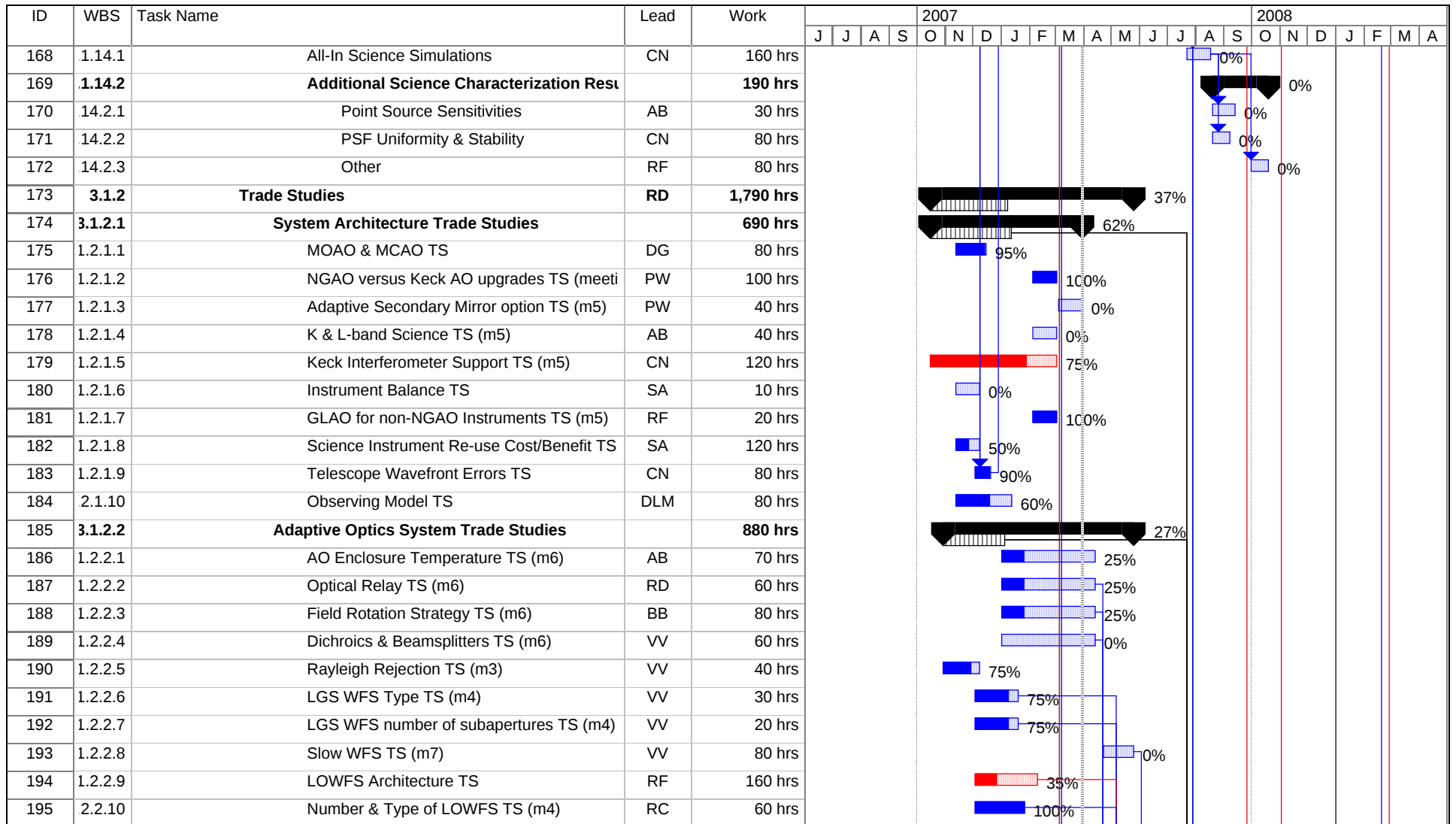
Deadline



Project: NGAO System Design Phase Date: Fri 3/30/07	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 Date: Fri 3/30/07	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
Date: Fri 3/30/07

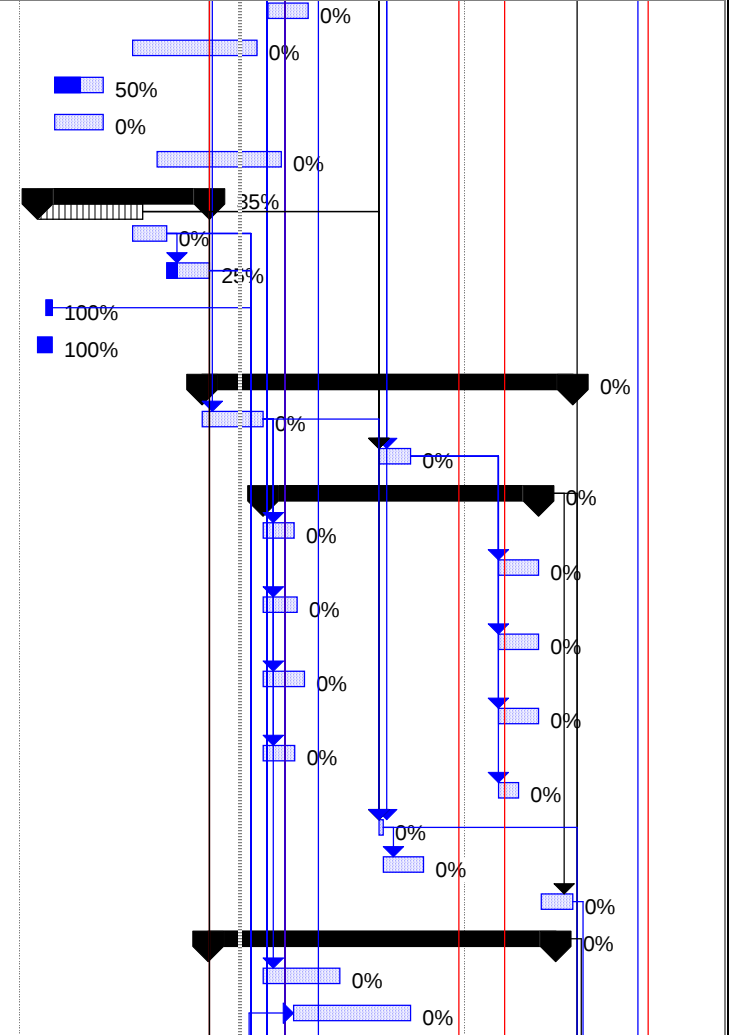
Critical
Critical Split
Critical Progress
Task
Split
Task Progress

Baseline
Baseline Split
Baseline Milestone
Milestone
Summary Progress
Summary

Project Summary
External Tasks
External Milestone
Deadline

Page 7

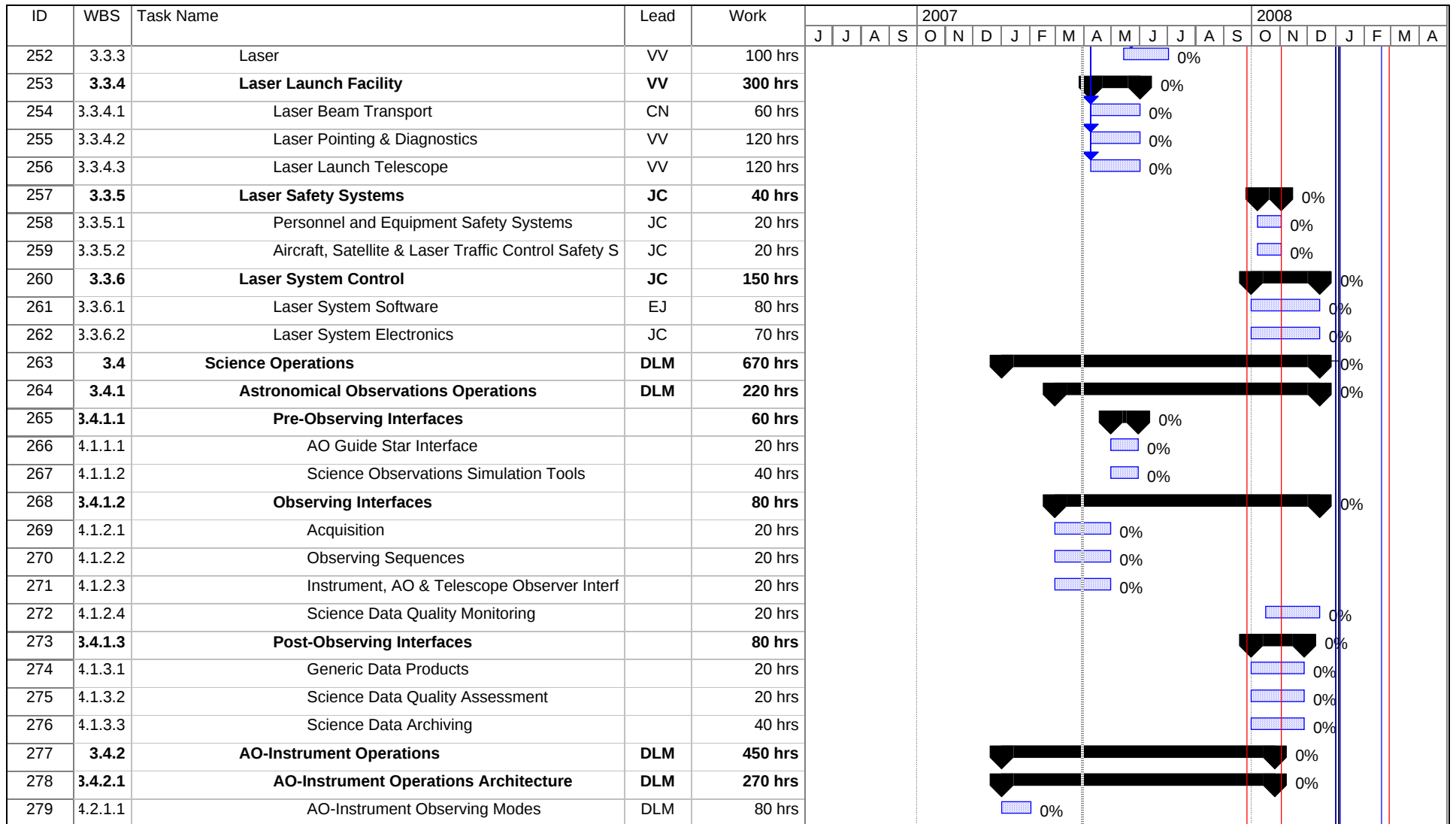
ID	WBS	Task Name	Lead	Work	2007												2008											
					J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	
196	2.2.11	Centroid Anisoplanatism TS (m7)	SK	40 hrs																								
197	2.2.12	Deformable Mirror Stroke Requirement TS (	RF	50 hrs																								
198	2.2.13	Stand-alone vs DM on T/T Stage TS (m3)	BB	60 hrs																								
199	2.2.14	Correcting Fast T/T with DM TS	Cancel	40 hrs																								
200	2.2.15	Focus Compensation TS (m6)	SK	30 hrs																								
201	3.1.2.3	Laser Facility Trade Studies		220 hrs																								
202	1.2.3.1	Laser Pulse Format TS (m6)	VV	80 hrs																								
203	1.2.3.2	Free Space vs Fiber TS (m7)	CN	100 hrs																								
204	1.2.3.3	LGS Asterism Geometry & Size TS (m2)	RF	20 hrs																								
205	1.2.3.4	Variable vs fixed LGS Asterism Cost/Benefit	VV	20 hrs																								
206	3.1.3	System Architecture	RD	1,120 hrs																								
207	3.1.3.1	System Architecture Ver 1	RD	80 hrs																								
208	3.1.3.2	System Architecture Ver 2	RD	60 hrs																								
209	3.1.3.3	Functional Requirements		860 hrs																								
210	1.3.3.1	AO System Functional Requirements Ver 1	CN	200 hrs																								
211	1.3.3.2	AO System Functional Requirements Ver 2	CN	100 hrs																								
212	1.3.3.3	Laser System Functional Requirements Ver	JC	135 hrs																								
213	1.3.3.4	Laser System Functional Requirements Ver	JC	65 hrs																								
214	1.3.3.5	Science Operations Functional Requirement	DLM	100 hrs																								
215	1.3.3.6	Science Operations Functional Requirement	DLM	100 hrs																								
216	1.3.3.7	Science Instruments Function Allocation Ver	SA	80 hrs																								
217	1.3.3.8	Science Instruments Function Allocation Ver	SA	80 hrs																								
218	3.1.3.4	Technology Drivers Summary	DG	40 hrs																								
219	3.1.3.5	Technical Risk Analysis Ver 1	DG	40 hrs																								
220	3.1.3.6	Technical Risk Analysis Ver 2	DG	40 hrs																								
221	3.2	AO System	DG	1,780 hrs																								
222	3.2.1	AO System Architecture	DG	240 hrs																								
223	3.2.2	AO Enclosure	JM	100 hrs																								



Project: NGAO System Design Phase Date: Fri 3/30/07	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			

ID	WBS	Task Name	Lead	Work	2007												2008											
					J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	
224	3.2.3	Opto-mechanical	BB	700 hrs																								
225	3.2.3.1	Field Rotation	BB	45 hrs																								
226	3.2.3.2	Optical Relay	BB	60 hrs																								
227	3.2.3.3	Optical Switchyard	BB	50 hrs																								
228	3.2.3.4	Optical Support Structure	BB	45 hrs																								
229	3.2.3.5	Wavefront Sensors	VV	240 hrs																								
230	2.3.5.1	High Order LGS Wavefront Sensors	VV	80 hrs																								
231	2.3.5.2	High Order NGS Wavefront Sensor	VV	40 hrs																								
232	2.3.5.3	Low Order NGS Wavefront Sensors	SK	80 hrs																								
233	2.3.5.4	Calibration Wavefront Sensor	SK	40 hrs																								
234	3.2.3.6	Wavefront Correctors	BB	140 hrs																								
235	2.3.6.1	Tip/Tilt Corrector	BB	20 hrs																								
236	2.3.6.2	Deformable Mirror	BB	120 hrs																								
237	3.2.3.7	Acquisition Cameras	AB	40 hrs																								
238	2.3.7.1	NGS Acquisition Camera	AB	20 hrs																								
239	2.3.7.2	LGS Acquisition Camera	AB	20 hrs																								
240	3.2.3.8	Atmospheric Dispersion Correction	SK	20 hrs																								
241	3.2.3.9	Alignment, Calibration, Diagnostics, Metrology ar	CN	60 hrs																								
242	3.2.4	Non-real-time Control	JC	400 hrs																								
243	3.2.4.1	Non-RTC Software	EJ	200 hrs																								
244	3.2.4.2	Non-RTC Electronics	JC	200 hrs																								
245	3.2.5	Real-time Control	DG	340 hrs																								
246	3.2.5.1	RTC Architecture Analysis and Design Study	DG	180 hrs																								
247	3.2.5.2	RTC Software Module Definition	EJ	80 hrs																								
248	3.2.5.3	RTC Hardware Module Definition	MR	80 hrs																								
249	3.3	Laser Facility		750 hrs																								
250	3.3.1	Laser System Architecture	VV	80 hrs																								
251	3.3.2	Laser Enclosure	JM	80 hrs																								

Project: NGAO System Design Phase Date: Fri 3/30/07	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
Date: Fri 3/30/07

Critical

Critical Split

Critical Progress

Task

Split

Task Progress

Baseline

Baseline Split

Baseline Milestone

Milestone

Summary Progress

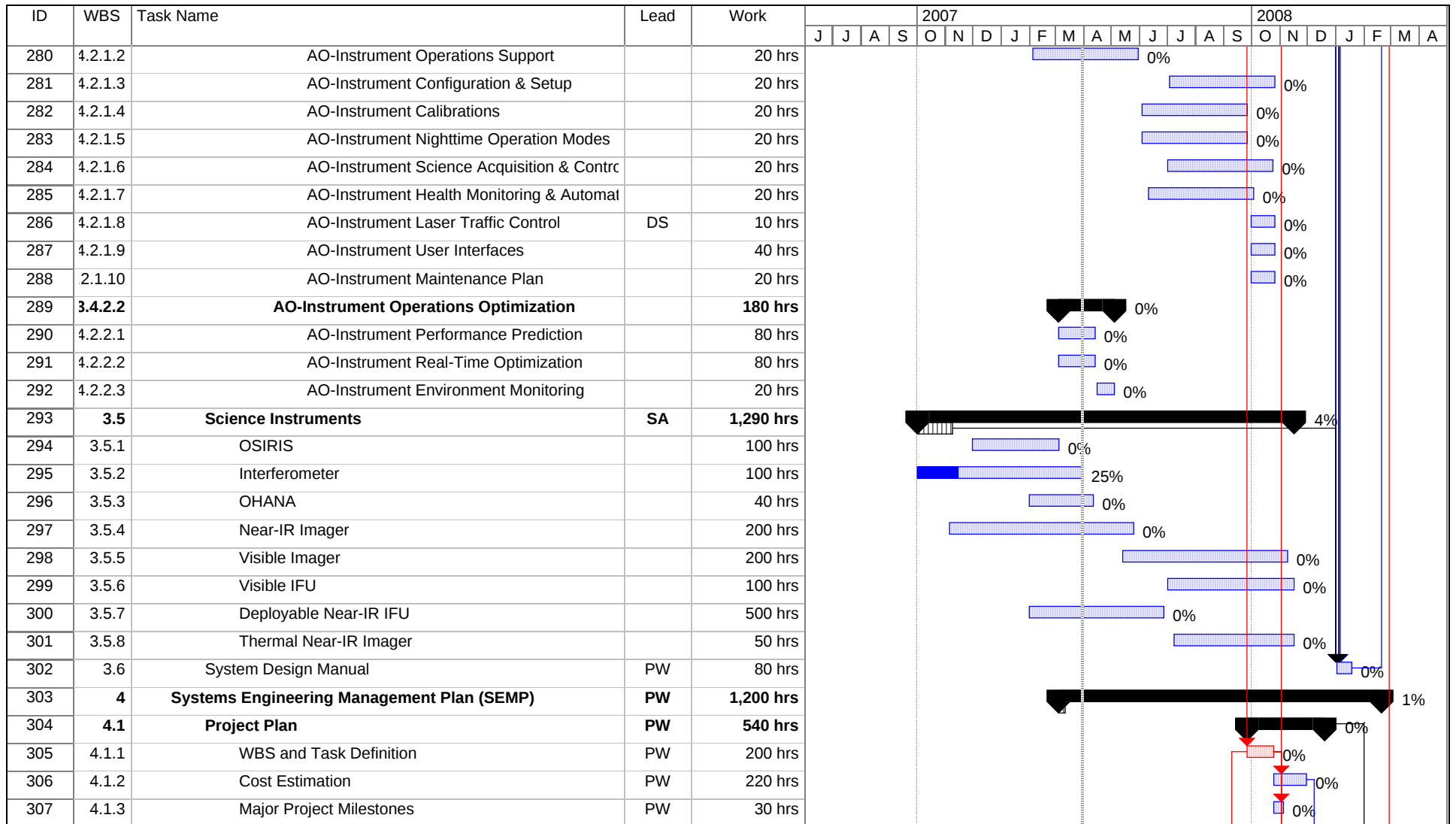
Summary

Project Summary

External Tasks

External Milestone

Deadline



Project: NGAO System Design Phase
Date: Fri 3/30/07

Critical

Critical Split

Critical Progress

Task

Split

Task Progress

Baseline

Baseline Split

Baseline Milestone

Milestone

Summary Progress

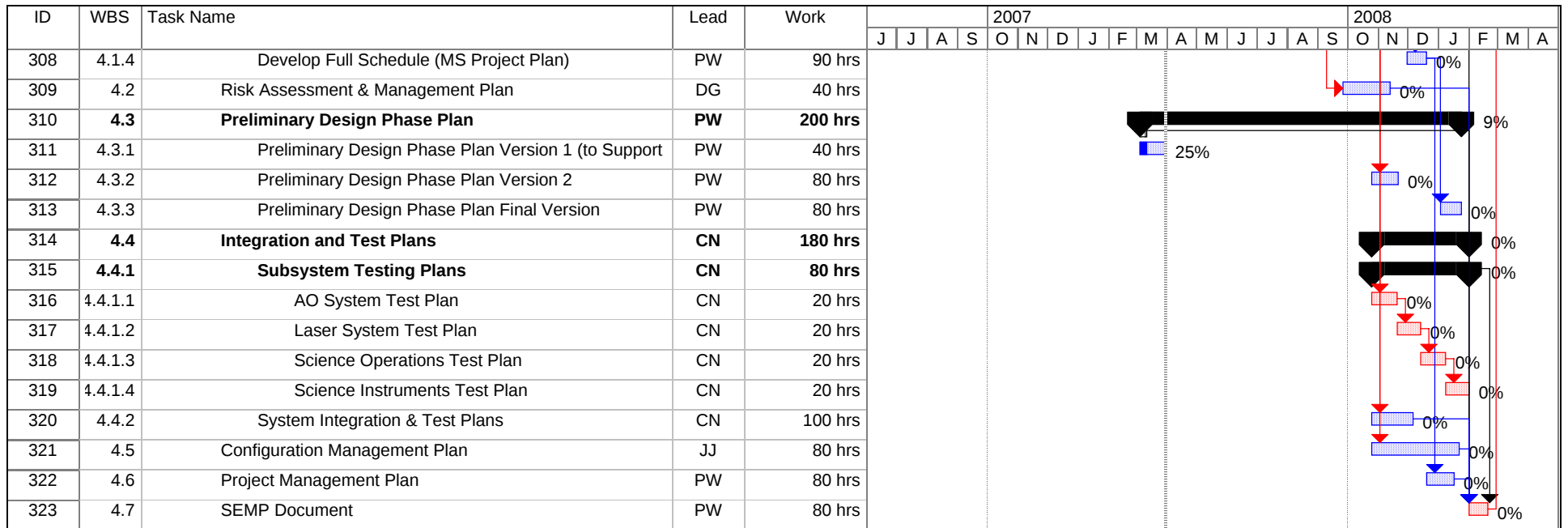
Summary

Project Summary

External Tasks

External Milestone

Deadline



Project: NGAO System Design Phase Date: Fri 3/30/07	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			