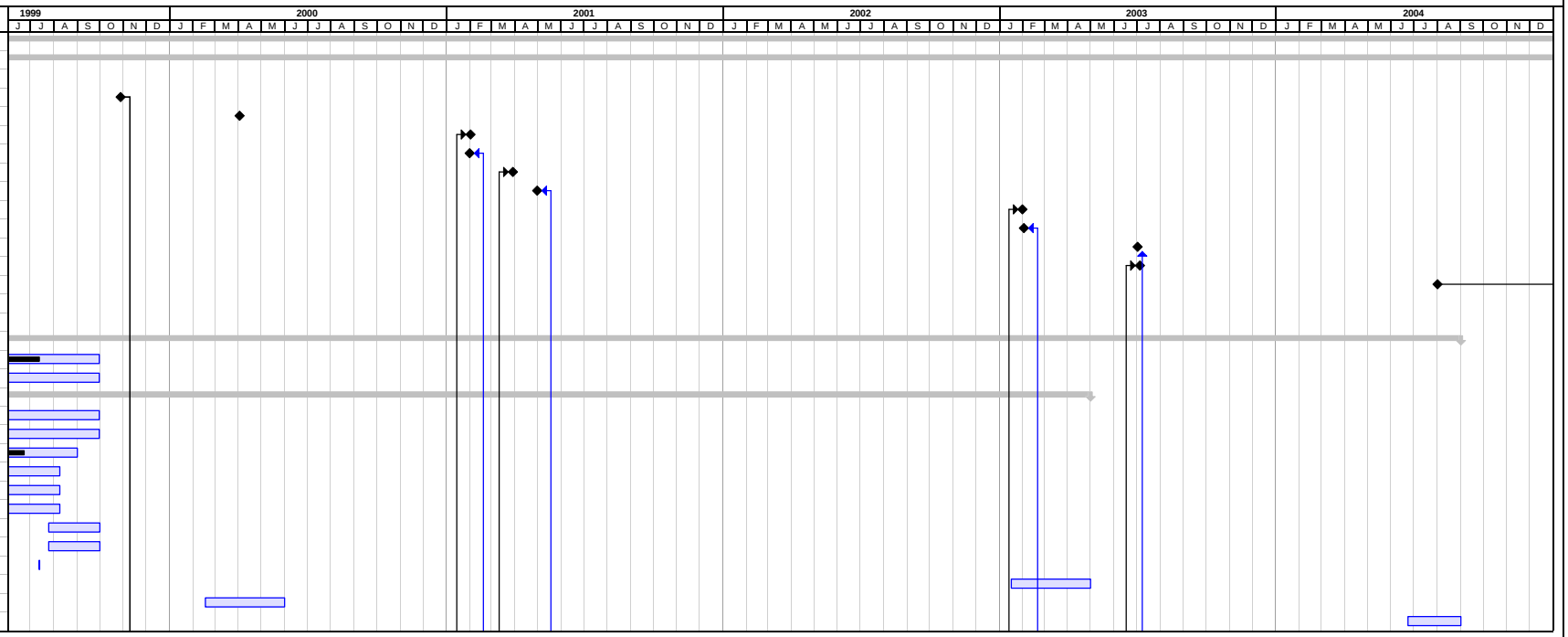
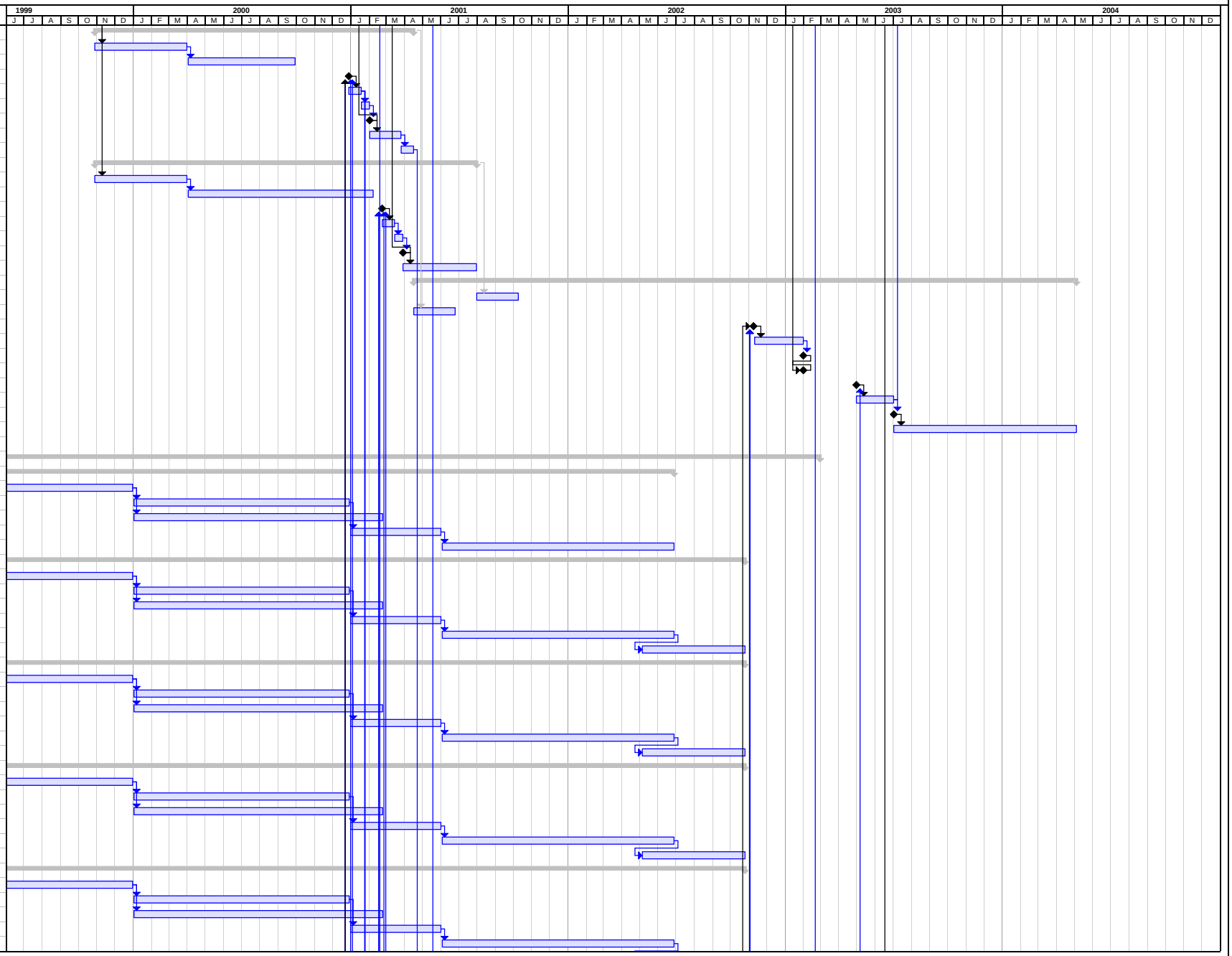
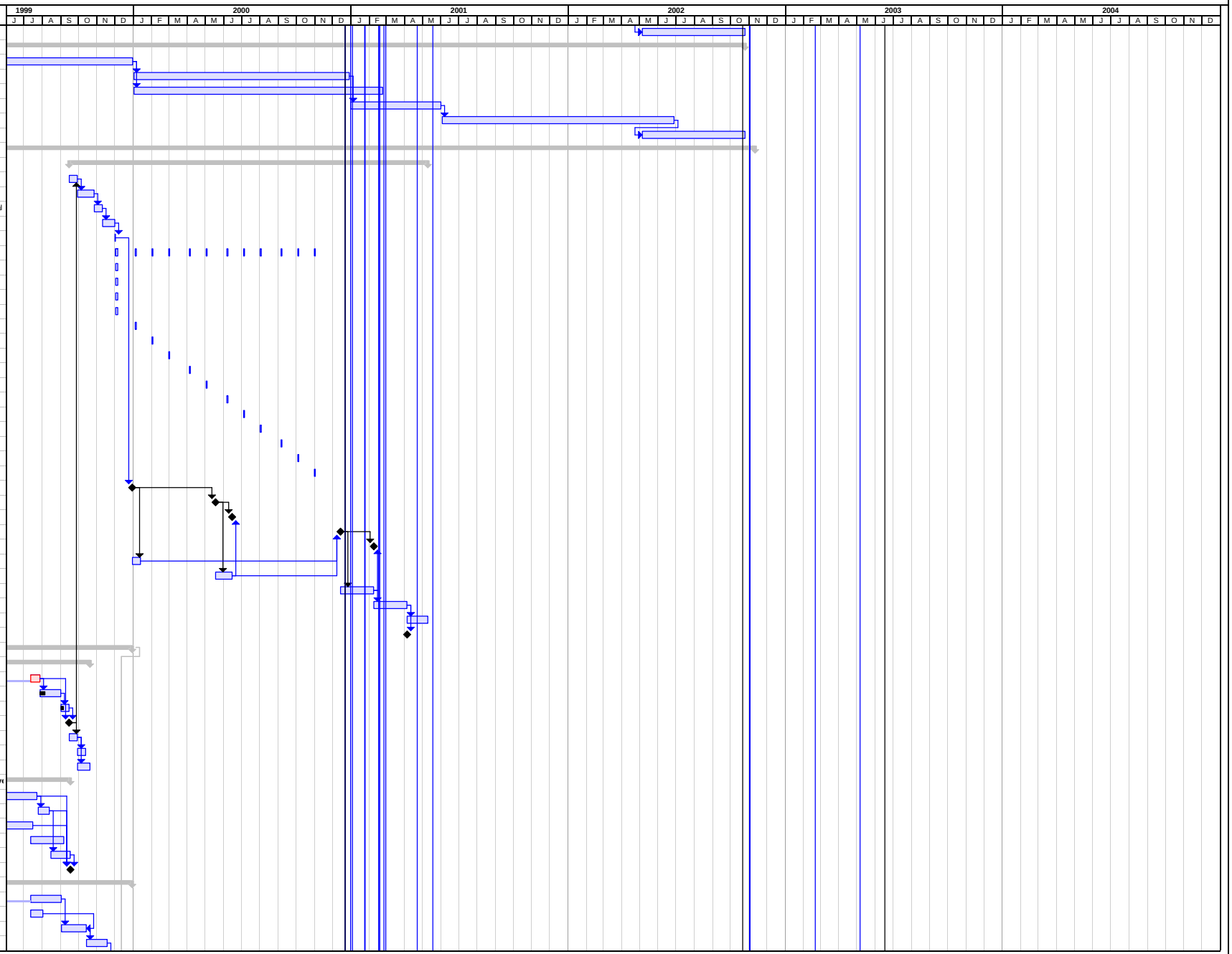
ID		Task Name
1		**EIS Schedule**
2		**Major Milestones**
3		UK Funding Start
4		End of Phase A
5		End of Phase B (PDR)
6		PM Delivery
7		PM delivery required
8		MTM/TTM Delivery
9		MTM/TTM delivery required
10		FM Delivery 1
11		FM Delivery 1 Required
12		Final Delivery
13		Final Delivery Required
14		Launch
15		End of nominal mission
16		
17		**System Development**
18		Liaison with ISAS Team
19		System model development
20		**Planning Activities**
21		Model Build Standards
22		Test & Calib' Philosophy
23		Management Plan
24		Functional Requirements
25		Interface Management Plan
26		Development Plan
27		Configuration Management Plan
28		Product Assurance Plan
29		AIV Plan
30		Calibration Plan
31		Logistics Plan
32		Project Final Report



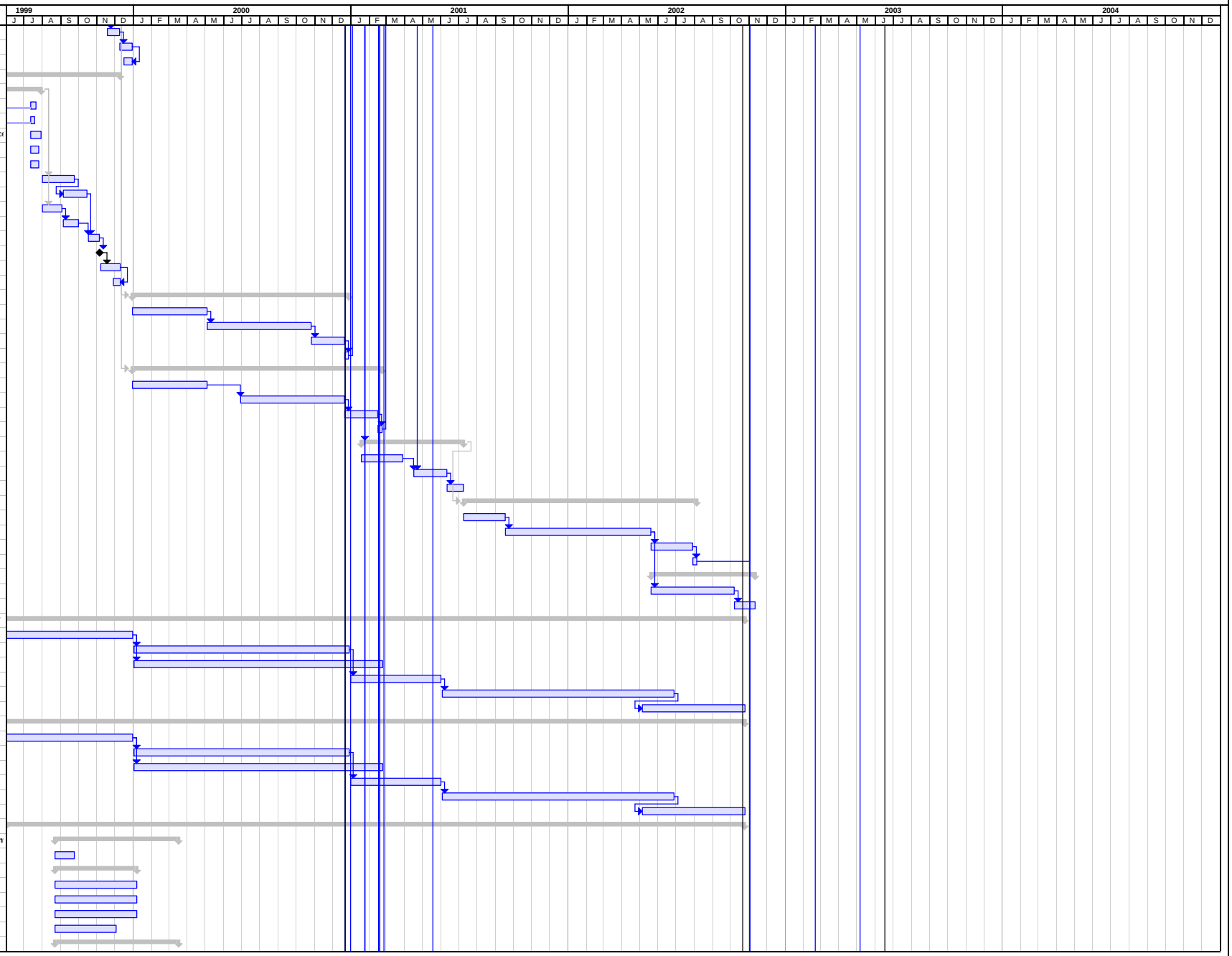
ID		Task Name
33		**EIS PM**
34		*Requirements Definition*
35		*Interface Definition*
36		Components Ready
37		UK AIV
38		Transport
39		Delivery
40		Japan AIV & test
41		Return from Japan
42		**EIS MTM/TTM**
43		Requirements Definition
44		Interface Definition
45		Components Ready
46		UK AIV
47		Transport
48		Delivery
49		Japan AIV & test
50		**EIS FM**
51		Design Updates, from MTM/TTM
52		Design Updates, from PM
53		Delivery of Subsystem elements
54		UK AIV
55		UK Review
56		EIS first delivery
57		Return to UK
58		Calibration
59		EIS Final delivery
60		Japan AIV and Launch prep.
61		
62		**Subsystem Development**
63		**1 - STR Structure**
64		Conceptual Design
65		PM
66		MTM/TTM
67		QM
68		FM
69		**2 - DOR Door**
70		Conceptual Design
71		PM
72		MTM/TTM
73		QM
74		FM
75		F Spares
76		**3 - MIR, GRA Optics**
77		Conceptual Design
78		PM
79		MTM/TTM
80		QM
81		FM
82		F Spares
83		**4 - FIL Filters**
84		Conceptual Design
85		PM
86		MTM/TTM
87		QM
88		FM
89		F Spares
90		**5 - SLA Slit**
91		Conceptual Design
92		PM
93		MTM/TTM
94		QM
95		FM



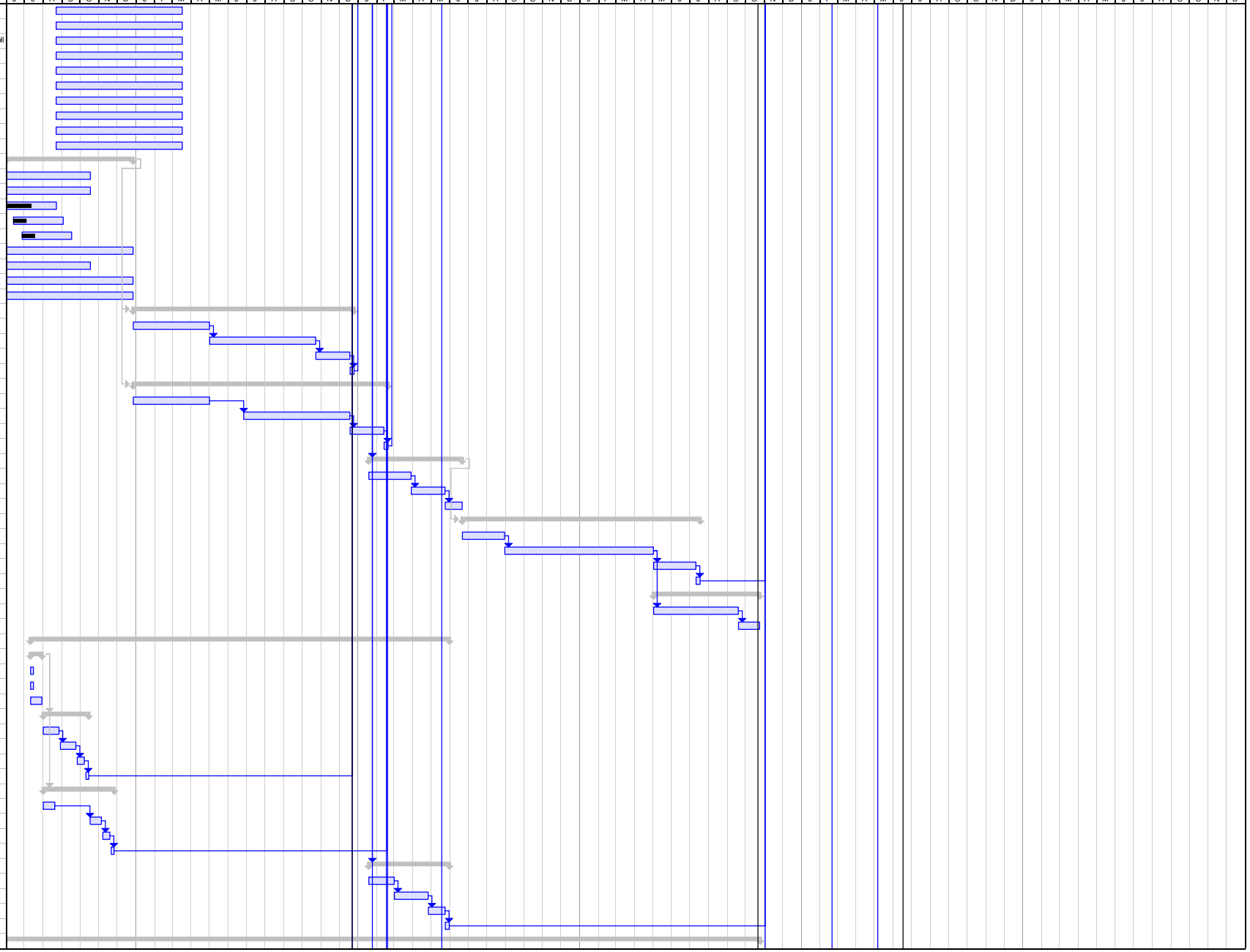
ID	Task Name
96	F Spares
97	**6 - SHT Shutter**
98	Conceptual Design
99	PM
100	MTM/TTM
101	QM
102	FM
103	F Spares
104	**7 - CAM Camera**
105	**CCD Procurement**
106	Prepare RFQ
107	EEV review RFQ
108	MSSL review EEV tech. proposal
109	Issue Contracts
110	sign contracts for CCD
111	**Manage CCD contract**
112	Manage CCD contract 18
113	Manage CCD contract 19
114	Manage CCD contract 20
115	Manage CCD contract 21
116	Manage CCD contract 22
117	Manage CCD contract 23
118	Manage CCD contract 24
119	Manage CCD contract 25
120	Manage CCD contract 26
121	Manage CCD contract 27
122	Manage CCD contract 28
123	Manage CCD contract 29
124	Manage CCD contract 30
125	Manage CCD contract 31
126	Manage CCD contract 32
127	Receive Mockup (M) devices
128	Receive EM devices
129	First Stage Payment
130	Receive FM devices
131	Final Payment
132	M-devices Acceptance Tests
133	EM Acceptance Tests
134	FM Device Acceptance Tests
135	Performance Tests
136	Calibration report
137	Ready for integration
138	**Conceptual Design**
139	**CCD**
140	Radiation Effects
141	Specify Temperature
142	CCD Perf. req'ments
143	Issue CCD requirements 1
144	Contamination Req'ments
145	Flat Fielding trade study
146	Develop BB tests
147	**Detector Test Facility Deve**
148	Test chambers
149	light sources
150	thermal control h'ware
151	Camera Electronics
152	data acq. tools
153	test facilities ready
154	**FPA (BB)**
155	Specs - optomechanical
156	Specs - thermal
157	Design
158	Manufacture



ID		Task Name
159		Assembly/Test
160		Use
161		Doc'tation of results
162		**ROE**
163		**Preparatory studies**
164		Digitisation depth
165		Readout speed
166		Camera to ICU interface
167		Clock Generator
168		Power Supply module
169		Design - elec
170		Manufacture - elec
171		Design - mech
172		Manufacture - mech
173		Assembly/ part tests
174		first all up tests
175		... continue to use
176		Doc'tation of results
177		**PM**
178		Design
179		Manufacture
180		Test
181		Deliver
182		**MTM/TTM**
183		Design
184		Manufacture
185		Test
186		Deliver
187		**QM**
188		Design
189		Manufacture
190		Test
191		**FM**
192		Design
193		Manufacture
194		Test
195		Deliver
196		**F Spares**
197		Manufacture
198		Test
199		**8 - QCM Quartz Contamination Monitor**
200		Conceptual Design
201		PM
202		MTM/TTM
203		QM
204		FM
205		F Spares
206		**9 - Thermal Control**
207		Conceptual Design
208		PM
209		MTM/TTM
210		QM
211		FM
212		F Spares
213		**A - ICU Instrument Control Electronics**
214		**Test and Development Environmen**
215		Main bus power
216		**Spacecraft sim**
217		MDP sim
218		Thermal Control sim
219		Camera sim
220		CCD Real Time monitor
221		**MHC + related Sims**

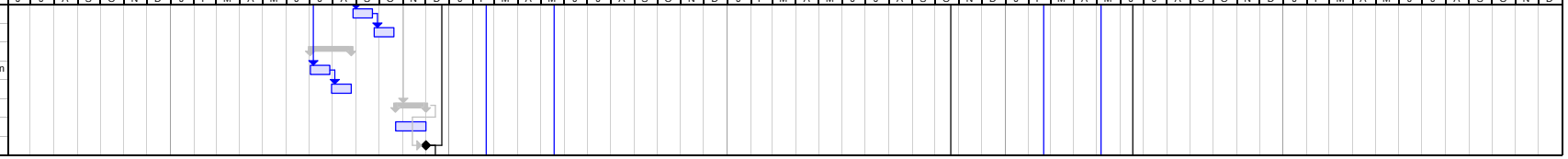


ID	Task Name
222	Launch Lock Sim
223	Primary Mirror Motor
224	Primary Mirror Piezo Controll
225	Shutter Sim
226	Slit/Slot Sim
227	Slit Focus Sim
228	Door Sim
229	QCM Sim
230	Lim attitude Sensor Sim
231	Heaters and Temp sensors
232	**Conceptual Design**
233	Processing power requirement
234	Memory size
235	Processor Choice
236	RTOS choice
237	Development System Choice
238	Mechanism Drivers
239	Spacecraft Interfaces
240	Estimate power consumption
241	other items (TBD)
242	**PM**
243	Design
244	Manufacture
245	Test
246	Deliver
247	**MTM/TTM**
248	Design
249	Manufacture
250	Test
251	Deliver
252	**QM**
253	Design
254	Manufacture
255	Test
256	**FM**
257	Design
258	Manufacture
259	Test
260	Deliver
261	**F Spares**
262	Manufacture
263	Test
264	**B - WIR Harness**
265	**Conceptual Design**
266	Design
267	Breadboarding
268	Detailed Design
269	**PM**
270	Design
271	Manufacture
272	Test
273	Deliver
274	**MTM/TTM**
275	Design
276	Manufacture
277	Test
278	Deliver
279	**FM**
280	Design
281	Manufacture
282	Test
283	Deliver
284	**C - CLM Clamshell**

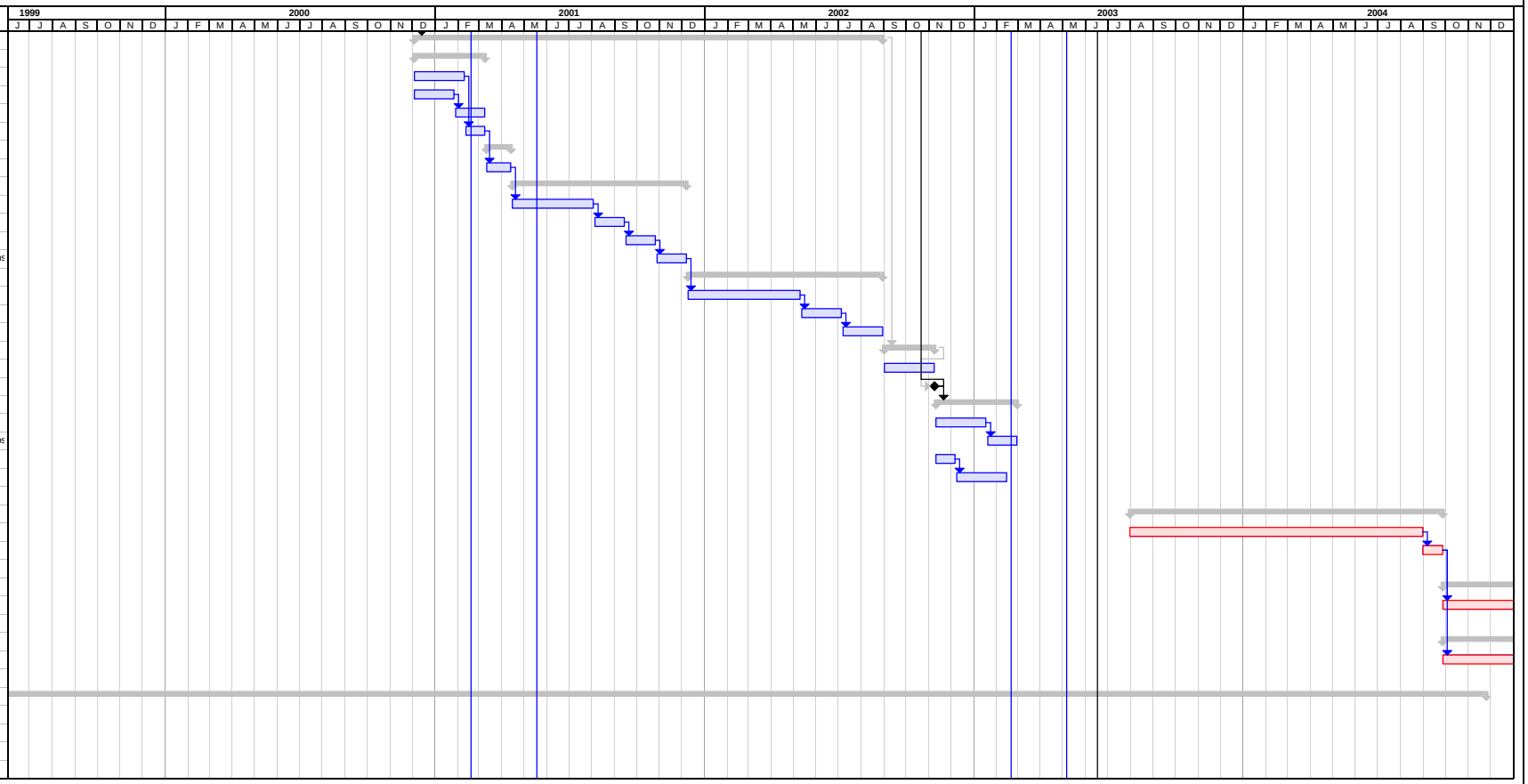


ID	Task Name
285	Conceptual Design
286	PM
287	MTM/TTM
288	QM
289	FM
290	F Spares
291	**D - MHC Mechanism & Heater Controller**
292	**Conceptual Design**
293	Design
294	Breadboarding
295	Detailed Design
296	**PM**
297	Design
298	Manufacture
299	Test
300	Deliver
301	**MTM/TTM**
302	Design
303	Manufacture
304	Test
305	Deliver
306	**QM**
307	Design
308	Manufacture
309	Test
310	**FM**
311	Design
312	Manufacture
313	Test
314	Deliver
315	**F Spares**
316	Manufacture
317	Test
318	**E - PUR Purge Harness**
319	Conceptual Design
320	PM
321	MTM/TTM
322	QM
323	FM
324	F Spares
325	**F - VACuum harness**
326	Conceptual Design
327	PM
328	MTM/TTM
329	QM
330	FM
331	F Spares
332	**Z - EIS Flight Software**
333	**Planning**
334	Dev. System Familiarisation
335	Software design phase
336	Arch. Design Doc.
337	TM / TC / HK Docs. (first cut)
338	**PM Software**
339	**Low-level Instrument Function**
340	Bootstrap Basic
341	**S/C Interface**
342	Telecommand (TC)
343	Telemetry (TM)
344	Basic Housekeeping
345	**Observation Management**
346	Timelined mode
347	Observing Table Interpreter

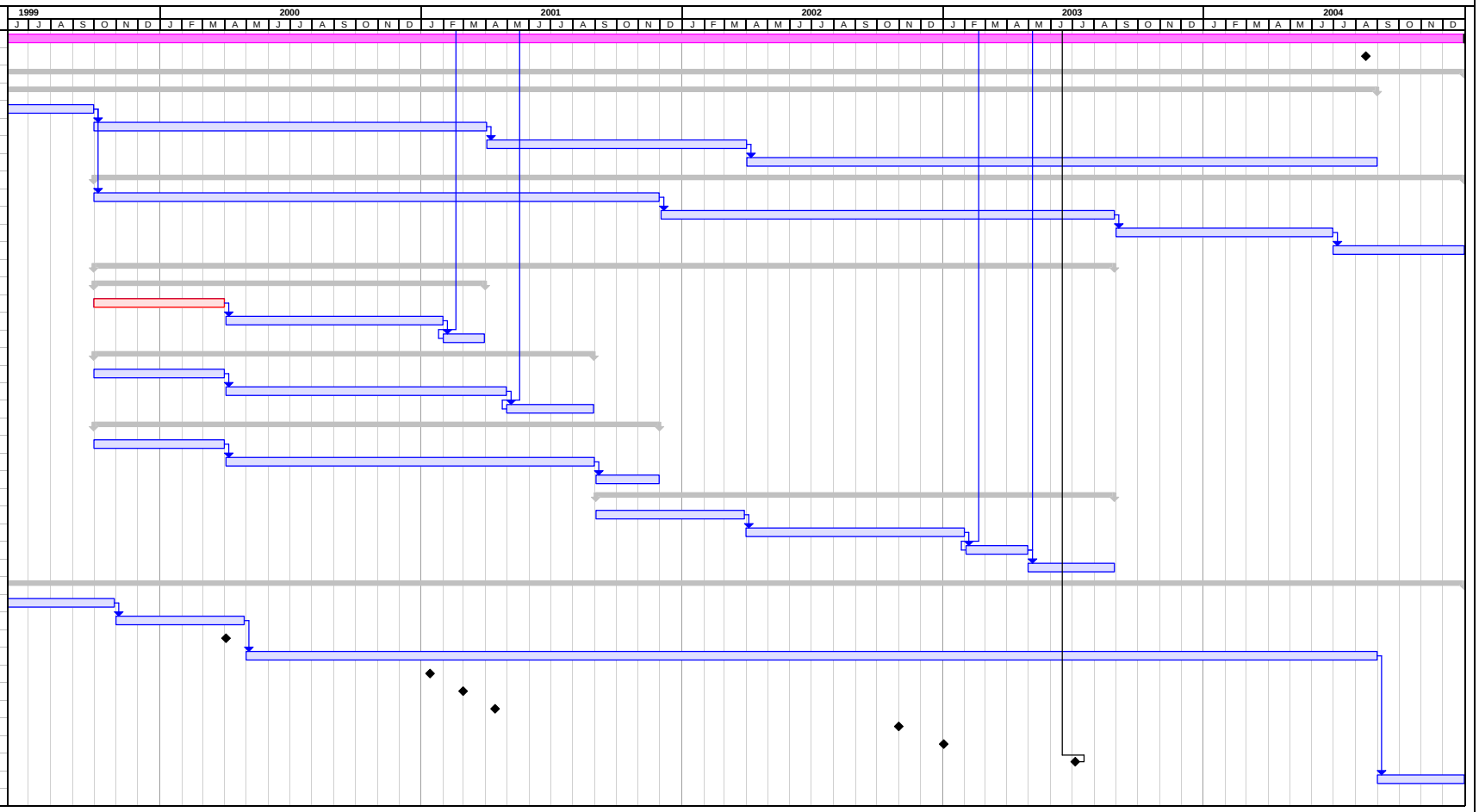
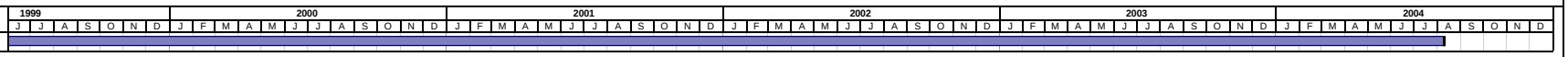
ID		Task Name
348		Observing Table loader
349		Flare response
350		**Data processing I**
351		Simple window packetisation
352		Basic manipulation
353		**PM Product Assurance**
354		Formal Testing
355		PM Software Delivery



ID	Task Name
356	**FM Software**
357	**Instrument Functions II**
358	Bootstrap revisited
359	SFT routines
360	Health Monitor
361	Other Instrument functions
362	**S/C Interface II**
363	Full Housekeeping
364	**Observation II**
365	Obs Table enhancements
366	Mechanism control
367	Heater Control
368	Camera Advanced Functions
369	**Data Processing II**
370	Data Compression
371	Advanced manipulation
372	Flare trigger generation
373	**FM Product Assurance**
374	Formal Testing
375	FM Software Delivery
376	**Support for Operations**
377	HK/TM/TC Docs. upgrading
378	Obs table interpreter doc. and ops
379	Post launch commissioning
380	Operation manual
381	
382	**Operations Preparation**
383	Preparations
384	Commissioning
385	
386	**Post Launch Operations**
387	Normal (3 yr) Operations
388	
389	**Science Data Analysis**
390	Data Processing
391	
392	**Meetings**
431	
432	**Design Reviews**
433	TBD
434	



ID	Task Name
435	**ISAS Master schedule**
436	Launch
437	**System development phase**
438	**Design phases**
439	Conceptual design
440	Basic design
441	Detailed design phase
442	Design up date/maintaining phase
443	**Development phases**
444	Proto model PM
445	Flight model FM
446	System performance test
447	Flight operation
448	**Development Model**
449	**Proto-model**
450	design
451	fabrication
452	test
453	**Mechanical Test Model**
454	design
455	fabrication
456	test
457	**Thermal Test Model**
458	design
459	fabrication
460	test
461	**Flight Model Phase**
462	design
463	fabrication
464	EIC/MIC
465	Env test & sys. integ
466	**Payload Develop't Milestone**
467	Phase A
468	Phase B
469	PDR
470	Phase C&D
471	Protomodel Delivery
472	CDR
473	MTM/TTM Delivery
474	Flight Model Final Delivery FPP FM
475	Flight Model delivery XRT/EIS for EIC/MIC
476	Flight Model Final Delivery
477	Phase E
478	



ID		Task Name
479		NASA Master Schedule