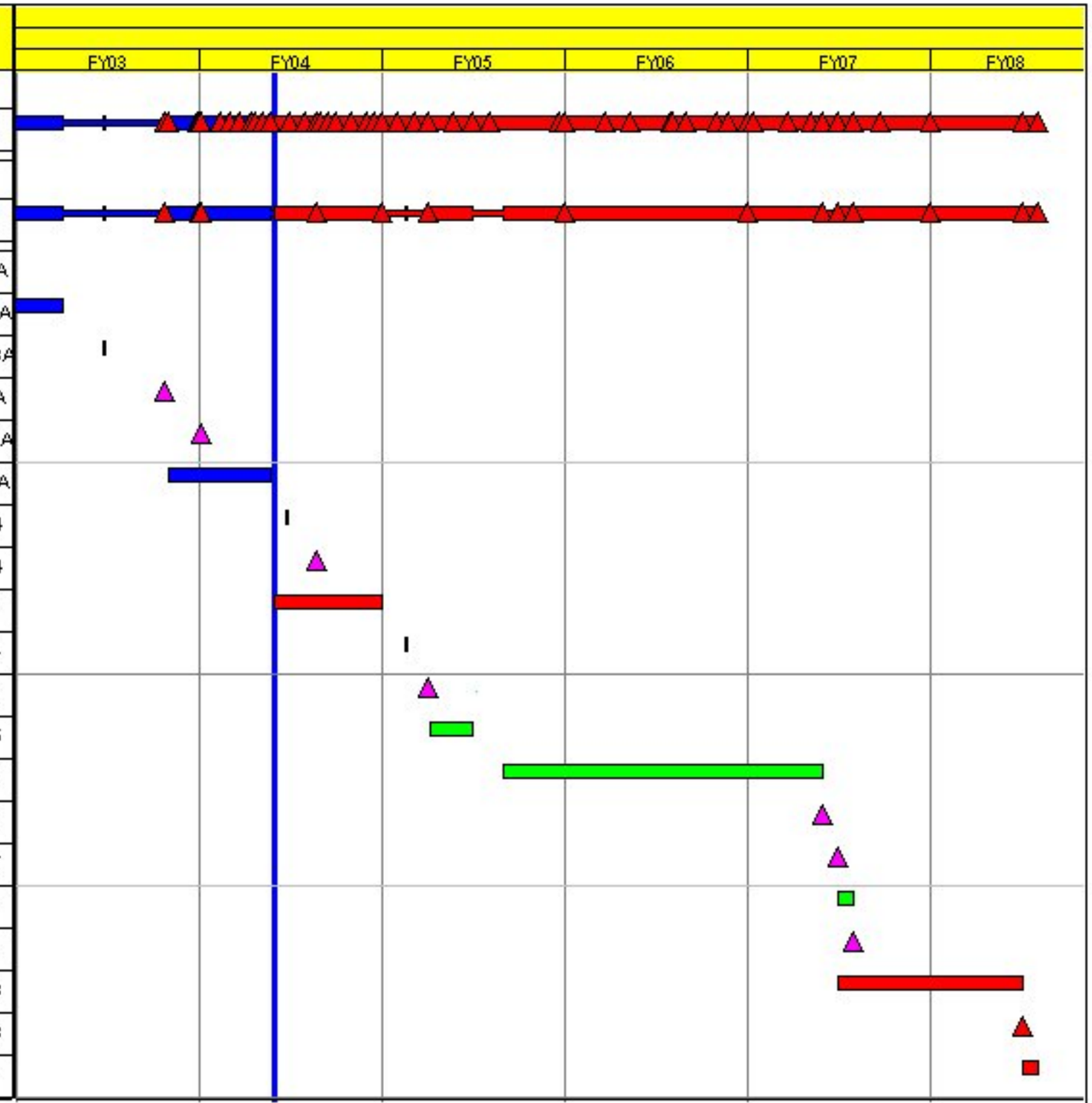
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1 CENTER FOR FUNCTIONAL NANOMATERIALS (CFN)				
Subtotal		1,473	13JUN02A	30APR08
1.0 CENTER FOR FUNCTIONAL NANOMATERIALS (CFN)				
Subtotal		1,473	13JUN02A	30APR08
1000005	C D - 0 APPROVAL - Mission Need	0		12JUN02A
1000007	Conceptual Design Report	200	13JUN02A	31DEC02A
1000008	Conceptual Design Review	2	24MAR03A	25MAR03A
1000010	CD-1 APPROVAL-Alternative Selection &	0		23JUL03A
1000015	NEPA (CX)	0		06OCT03A
1000016	Title I Design	130	01AUG03A	20FEB04A
1000018	EIR	5	22MAR04*	26MAR04
1000020	C D - 2 APPROVAL-Performance	0		21MAY04
1000021	Title II Design	150*	01MAR04	30SEP04
1000022	IPR	4	15NOV04*	18NOV04
1000030	C D - 3 APPROVAL- Start of Construction	0		31DEC04
1000032	Bid & Award Construction Contract	62	03JAN05	31MAR05
1000034	Building Construction	435	01JUN05	27FEB07
1000035	Beneficial Occupancy	0		28FEB07
1000051	Conventional Construction Complete	0		30MAR07
1000055	ESAAB/Preparation for ESAAB for CD-4a	21	02APR07	30APR07
1000057	CD-4a APPROVAL-Start of Initial	0		30APR07
1000058	Technical Equipment Installation	251*	02APR07	31MAR08
1000059	Technical Equipment Installation	0		31MAR08
1000065	ESAAB/Preparation for ESAAB for CD-4b	22	01APR08	30APR08



Start Date 27MAR02
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CENTER FOR FUNCTIONAL NANOMATERIALS (CFN)
Project Schedule

Early Bar
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Critical Activity

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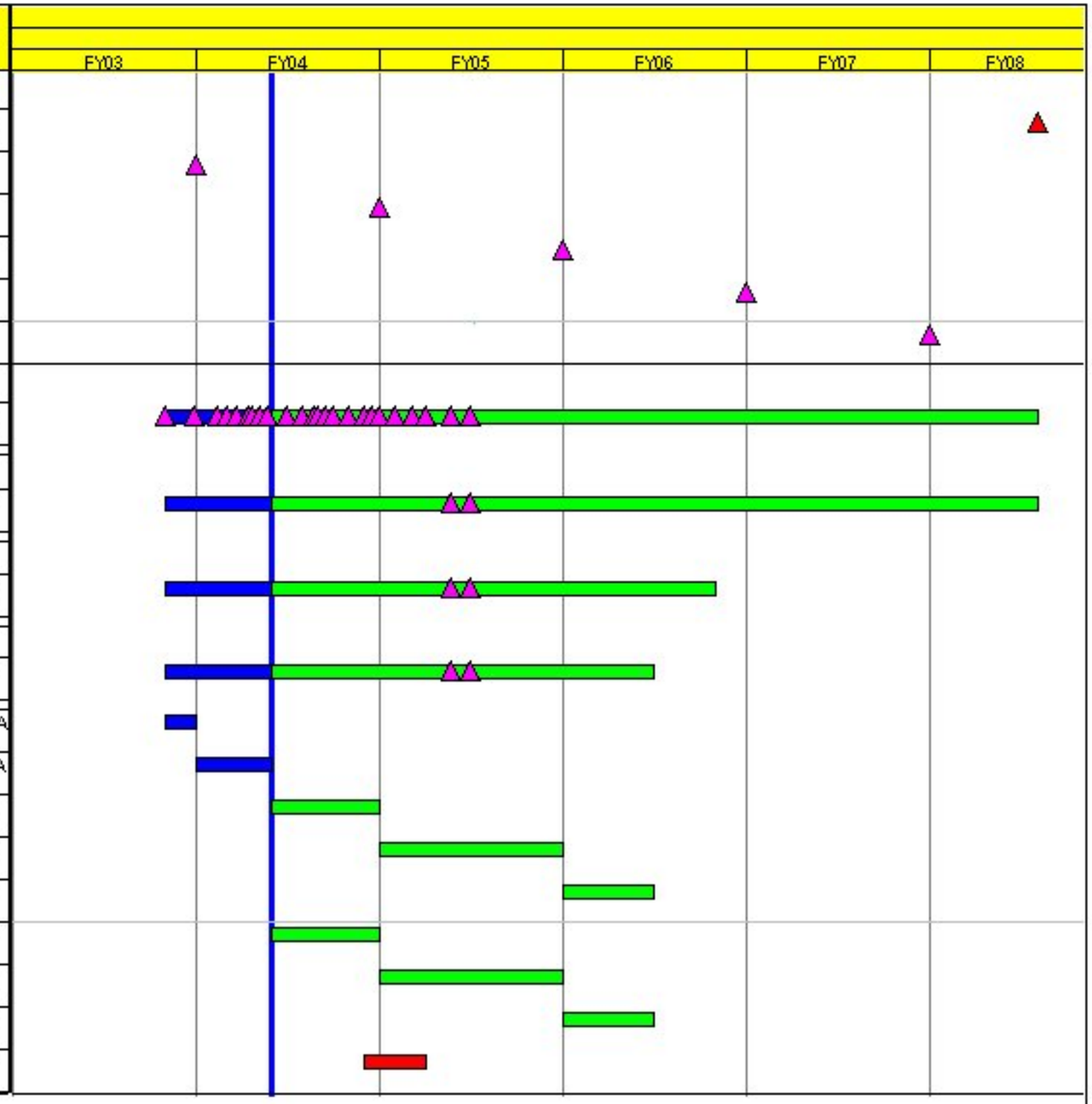
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1. 0 CENTER FOR FUNCTIONAL NANOMATERIALS (CFN)				
10000069	CD-4b APPROVAL-Start of Full Operations	0		30APR08
10000200	Funding Available Fiscal Year 2004	0	02OCT03A	
10000202	Funding Available Fiscal Year 2005	0	01OCT04*	
10000204	Funding Available Fiscal Year 2006	0	03OCT05*	
10000206	Funding Available Fiscal Year 2007	0	02OCT06*	
10000208	Funding Available Fiscal Year 2008	0	01OCT07*	
1. 1 PROJECT SUPPORT				
Subtotal		1,188	01AUG03A	28APR08
1. 1.1 Project Management				
Subtotal		1,188	01AUG03A	28APR08
1. 1.1 .1 Project Management - Design Phase				
Subtotal		751	01AUG03A	31JUL06
1. 1.1 .1 .1 PM - Conventional Design				
Subtotal		668	01AUG03A	31MAR06
11001285	Project Mgmt Svcs.-Title I Design FY03	143	01AUG03A	30SEP03A
11001287	Project Mgmt Svcs.-Title I Design FY04	143	01OCT03A	27FEB04A
11001290	Project Mgmt Svcs.-Title II Design FY04	150	01MAR04	30SEP04
11001292	Project Mgmt Svcs.-Title II Design FY05	251	01OCT04	30SEP05
11001294	Project Mgmt Svcs.-Title II Design FY06	124	03OCT05	31MAR06
11001296	Project Controls Svcs. & ESH&Q FY04	150	01MAR04	30SEP04
11001297	Project Controls Svcs. & ESH&Q FY05	251	01OCT04	30SEP05
11001298	Project Controls Svcs. & ESH&Q FY06	124	03OCT05	31MAR06
11001300	Develop RFQ docs. & get CH/HQ Approval	83	01SEP04	31DEC04



Start Date 27MAR02
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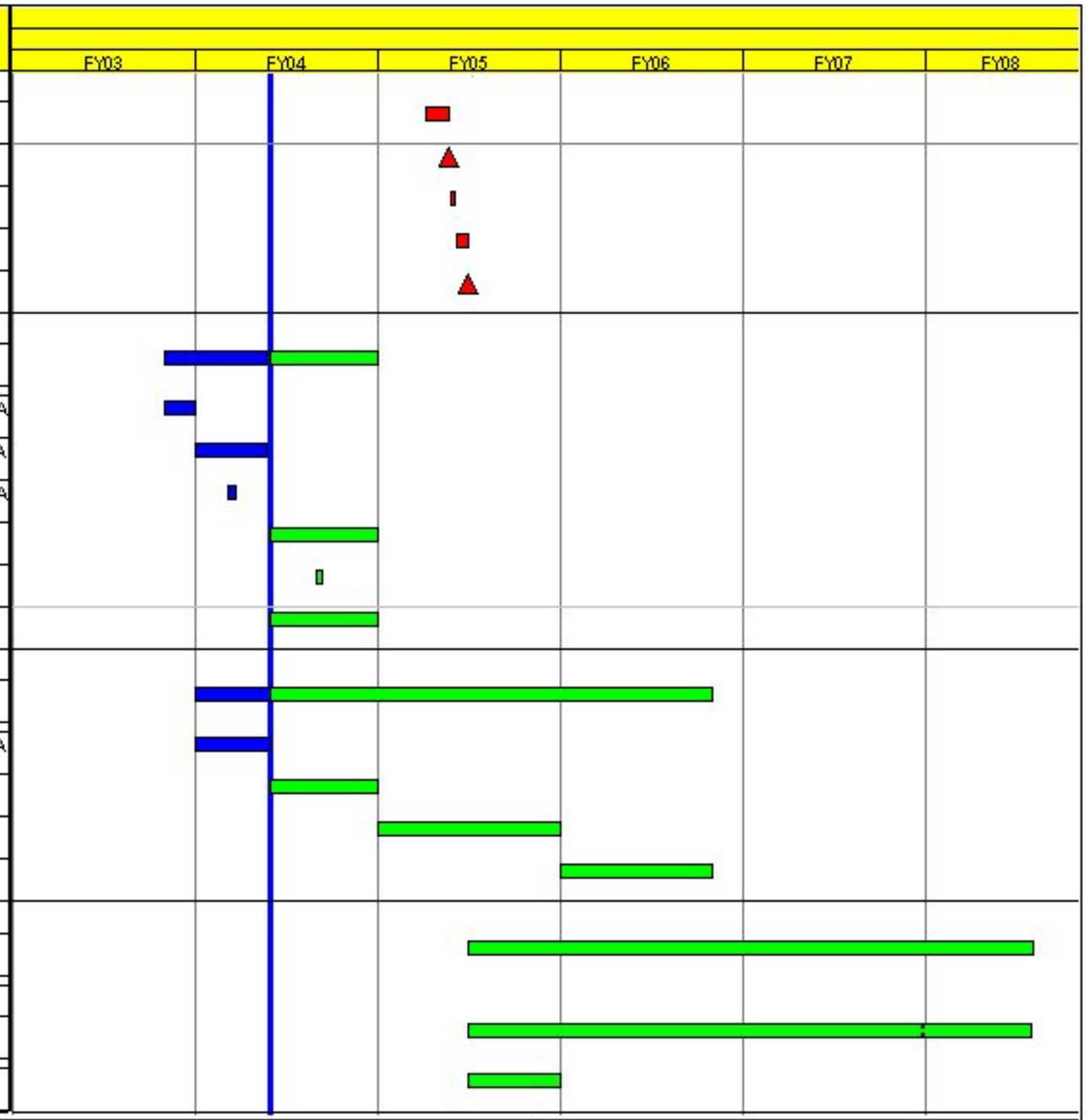
Critical Activity

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1.1.1.1.1	PM - Conventional Design			
11001305	Construction Bidding Period	34	03JAN05	18FEB05
11001310	Receive Proposals	0		18FEB05
11001315	Bid Evaluation & Selection	9	22FEB05	04MAR05
11001320	DOE Review of Proposed Contract Award	18	07MAR05	30MAR05
11001325	Award Construction Contract	0		31MAR05
1.1.1.1.2	DM - Conventional Design			
Subtotal		293	01AUG03A	30SEP04
11001330	Design Management - Title I Design FY03	115*	01AUG03A	30SEP03A
11001332	Design Management - Title I Design FY04	115*	01OCT03A	20FEB04A
11001335	Perform Value Engineering Study - Title I	0	04DEC03A	19DEC03A
11001340	Design Management - Title II Design	150	01MAR04	30SEP04
11001345	Perform Value Engineering Study - Title II	9	01JUN04	11JUN04
11001350	Commissioning Plan Review FY04	150	01MAR04	30SEP04
1.1.1.1.3	PM - Technical Design			
Subtotal		709	01OCT03A	31JUL06
11001420	Management Serv. - Bldg. Design Title I	709	01OCT03A	27FEB04A
11001422	Management Serv. - Bldg. Design Title II	150	01MAR04	30SEP04
11001424	Management Serv. - Prep. Equip Spec	251	01OCT04	30SEP05
11001426	Management Serv. - Prep. Equip Spec	207	03OCT05	31JUL06
1.1.1.2	Project Management - Construction Phase			
Subtotal		771	01APR05	28APR08
1.1.1.2.1	PM - Conventional Construction			
Subtotal		769	01APR05	24APR08
11001352	Proj. Mgmt Constr/Occup Phase	127	01APR05	30SEP05



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Project Schedule

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Critical Activity

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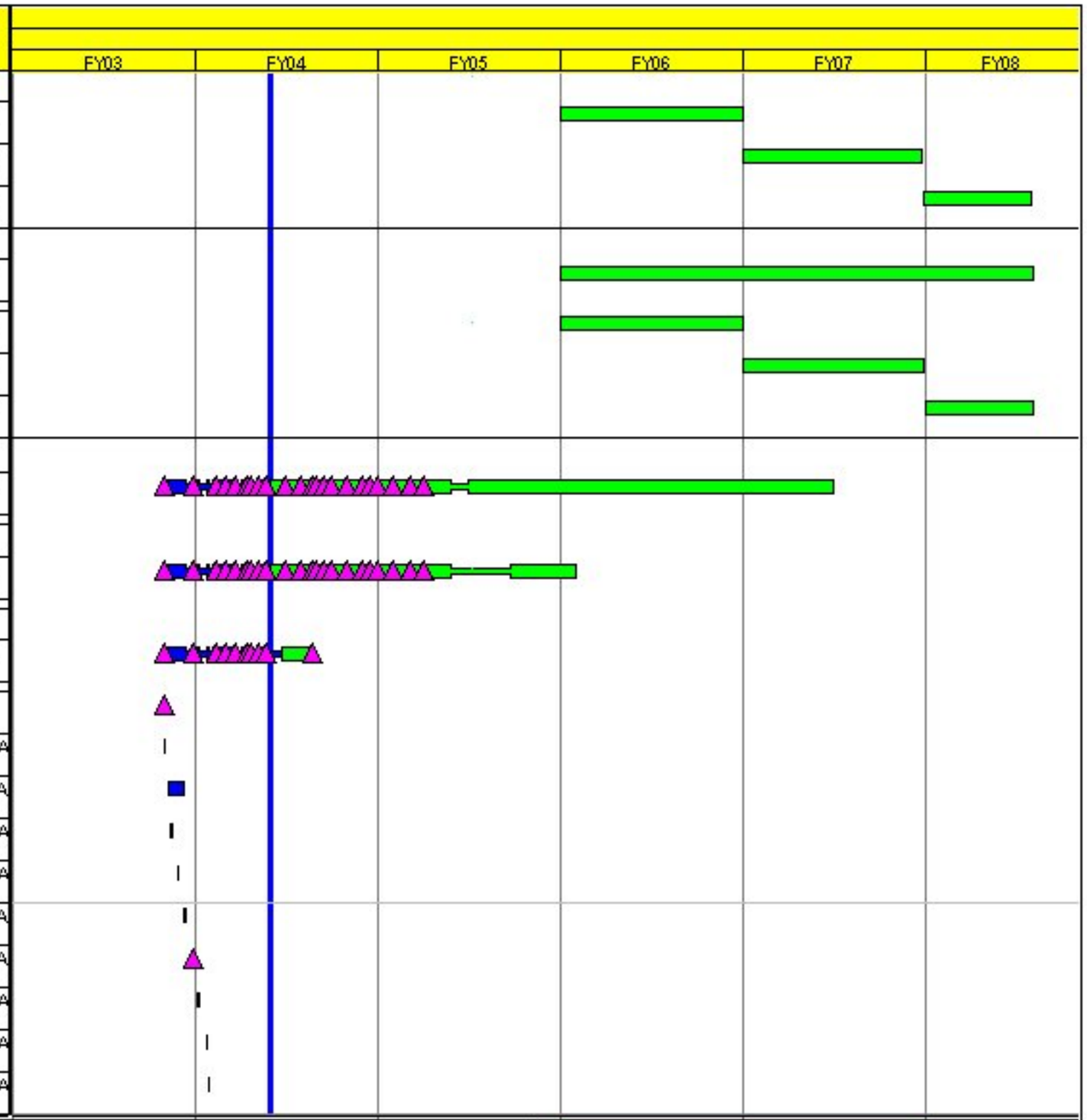
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1.1.1.2.1	PM - Conventional Construction			
11001354	Proj. Mgmt Constr/Occup Phase	250	03OCT05	29SEP06
11001356	Proj. Mgmt Constr/Occup Phase	245	02OCT06	24SEP07
11001358	Proj. Mgmt Constr/Occup Phase	145	27SEP07	24APR08
1.1.1.2.2	PM- Technical Equipment			
Subtotal		644	03OCT05	28APR08
11001370	Proj. Mgmt - Equip Install/Testing Phase	250	03OCT05	29SEP06
11001372	Proj. Mgmt - Equip Install/Testing Phase	249	02OCT06	28SEP07
11001374	Proj. Mgmt - Equip Install/Testing Phase	145	01OCT07	28APR08
1.1.2	**Project Engineering**			
Subtotal		917	01AUG03A	30MAR07
1.1.2.1	Project Engineering - Design Phase			
Subtotal		565	01AUG03A	31OCT05
1.1.2.1.1	PE/AE Title I			
Subtotal		203	01AUG03A	21MAY04
11001015	Begin Title I Design	0	01AUG03A	
11001020	HDR Kickoff Meeting	1	01AUG03A	01AUG03A
11001025	HDR Conduct Site Baseline Investigation	22	08AUG03A	09SEP03A
11001030	HDR First Programming Meeting	3	13AUG03A	15AUG03A
11001035	HDR Second Programming Meeting	3	26AUG03A	28AUG03A
11001040	HDR Conduct Programming Charrette	5	08SEP03A	12SEP03A
11001045	HDR Conduct Programming & Complete	0		26SEP03A
11001050	HDR Schematic Design Workshop	3	07OCT03A	09OCT03A
11001055	HDR Presentation to Sr	1	24OCT03A	24OCT03A
11001060	GEI Test Borings	1	27OCT03A	27OCT03A



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CENTER FOR FUNCTIONAL NANOMATERIALS (CFN)
Project Schedule

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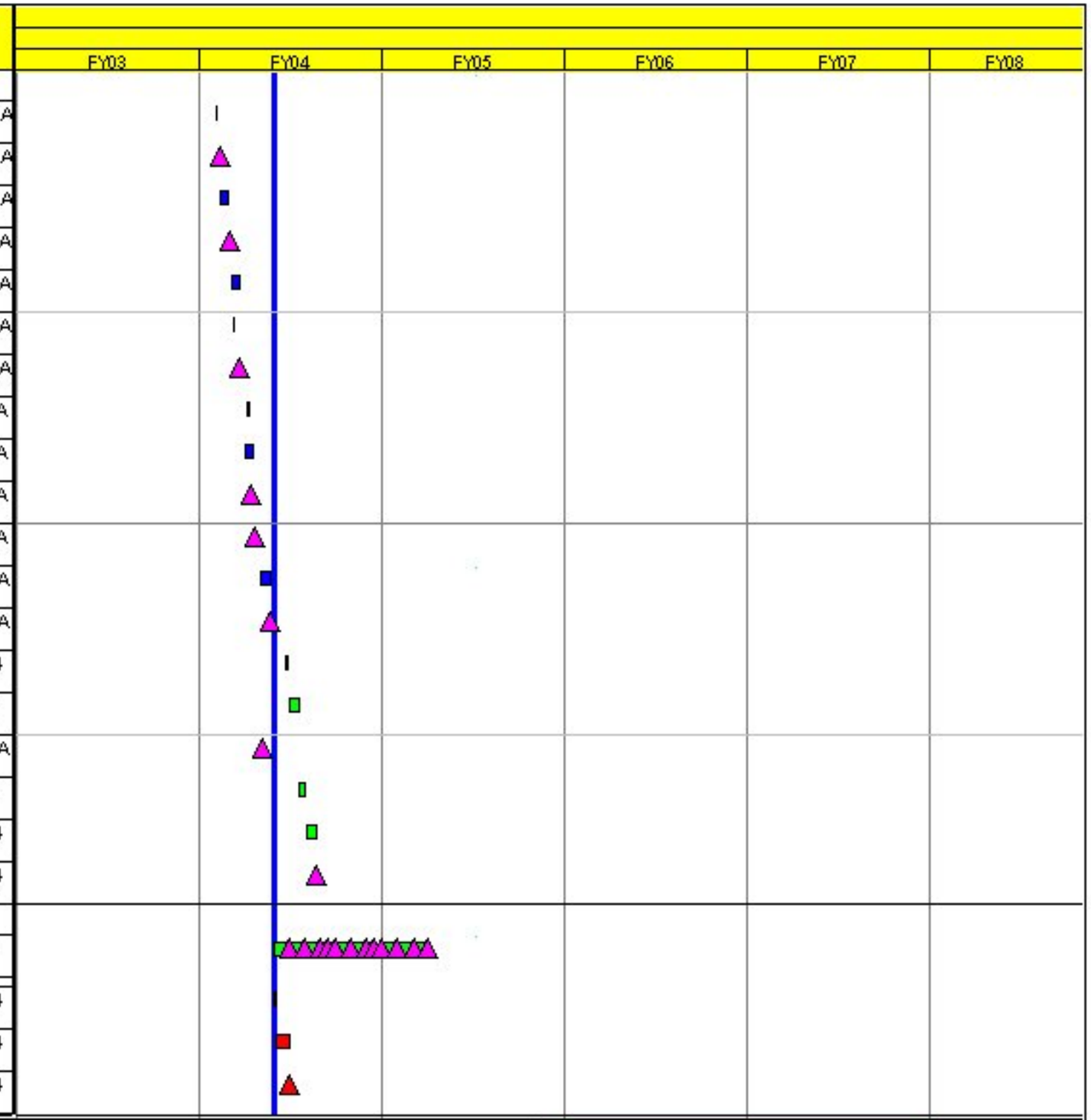
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1. 1.2 .1 .1	PE/AE Title I			
11001065	BNL Schematic Design Review at HDR	1	05NOV03A	05NOV03A
11001070	HDR Submit 75% Title I Design	0		12NOV03A
11001075	BNL Review 75% Title I Design	10	13NOV03A	26NOV03A
11001080	BNL Provide Review Comments to HDR	0		01DEC03A
11001090	BNL Perform Value Engineering Study	12	04DEC03A	19DEC03A
11001095	HDR Design Development Meeting	3	08DEC03A	09DEC03A
11001097	BNL Review at HDR	0		22DEC03A
11001105	BNL 100% Title I Design Review Meeting	3	07JAN04A	09JAN04A
11001110	BNL Prepare Package for EIR Team for	39	02JAN04A	16JAN04A
11001115	BNL Provide Review Comments to HDR	0		12JAN04A
11001120	HDR Submit Title I Final Rpt, Drawings &	0		20JAN04A
11001121	BNL Prepare Revised Package for EIR	14	02FEB04A	20FEB04A
11001123	HDR Sub Revised Title I Final Rpt Drwgs	0		20FEB04A
11001125	On Site EIR Review	5	22MAR04	26MAR04
11001130	EIR Draft Final Rpt & Corrective Action	15	29MAR04	16APR04
11001131	CFN Registered with USGBC for LEED	0		05FEB04A
11001135	HDR/BNL Complete Corrective Action Plan	10	19APR04	30APR04
11001140	ESAAB Review Mtg/Briefing & Supporting	15	03MAY04	21MAY04
11001145	CD-2 Approval	0		21MAY04
1. 1.2 .1 .2	PE/AE - Title II			
Subtotal		212	01MAR04	31DEC04
11001150	Kick-off Title II Design	2	01MAR04	02MAR04
11001155	HDR Contract Documents Preparation	21	03MAR04	31MAR04
11001160	HDR Title II Progress Review	0		31MAR04



Start Date 27MAR02
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Run Date 14JUL04 12:30

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CENTER FOR FUNCTIONAL NANOMATERIALS (CFN)
Project Schedule

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Critical Activity

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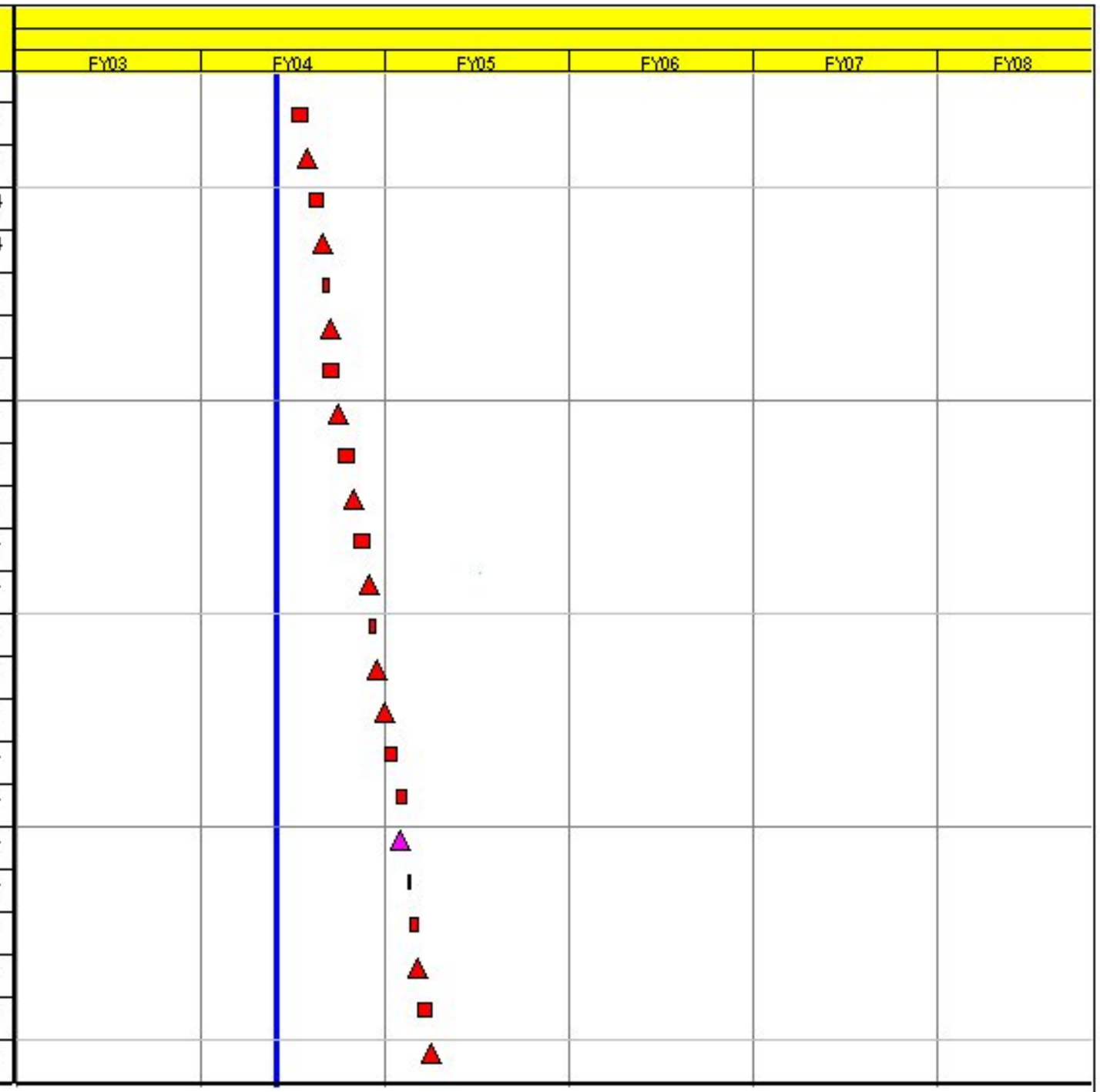
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1. 1.2 .1 .2	PE/AE - Title II			
11001165	HDR Contract Documents Preparation	22	01APR04	30APR04
11001170	HDR Title II Progress Review	0		30APR04
11001175	HDR Contract Documents Preparation	20	03MAY04	28MAY04
11001180	HDR Submit 60% Title II Design	0		28MAY04
11001185	BNL Review 60% Title II Design	9	01JUN04	11JUN04
11001195	BNL Provide Review Comments to HDR	0		14JUN04
11001200	HDR Contract Documents Preparation	22	01JUN04	30JUN04
11001205	HDR Title II Progress Review	0		30JUN04
11001210	HDR Contract Documents Preparation	20	01JUL04	30JUL04
11001215	HDR Title II Progress Review	0		30JUL04
11001220	HDR Contract Documents Preparation	22	02AUG04	31AUG04
11001225	HDR Submit 100% Title II Design	0		31AUG04
11001230	BNL Review 100% Title II Design	7	01SEP04	10SEP04
11001233	BNL Provide Review Comment to HDR	0		13SEP04
11001235	HDR Submit Final 100% Title II Design	0		30SEP04
11001240	BNL Prepare Package for IPR Team to	16	01OCT04	22OCT04
11001245	IPR Team Reviews Document	14	25OCT04	12NOV04
11001250	HDR Leed Registration	0		29OCT04
11001255	On-Site IPR Review	4	15NOV04	18NOV04
11001260	IPR Draft and Final Report	9	19NOV04	03DEC04
11001265	HDR Submit Title II Construction Bid	0		03DEC04
11001270	ESAAB Review Mtg/Briefing & Supporting	19	06DEC04	31DEC04
11001275	CD-3 Approval	0		31DEC04



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CENTER FOR FUNCTIONAL NANOMATERIALS (CFN)
Project Schedule

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Critical Activity

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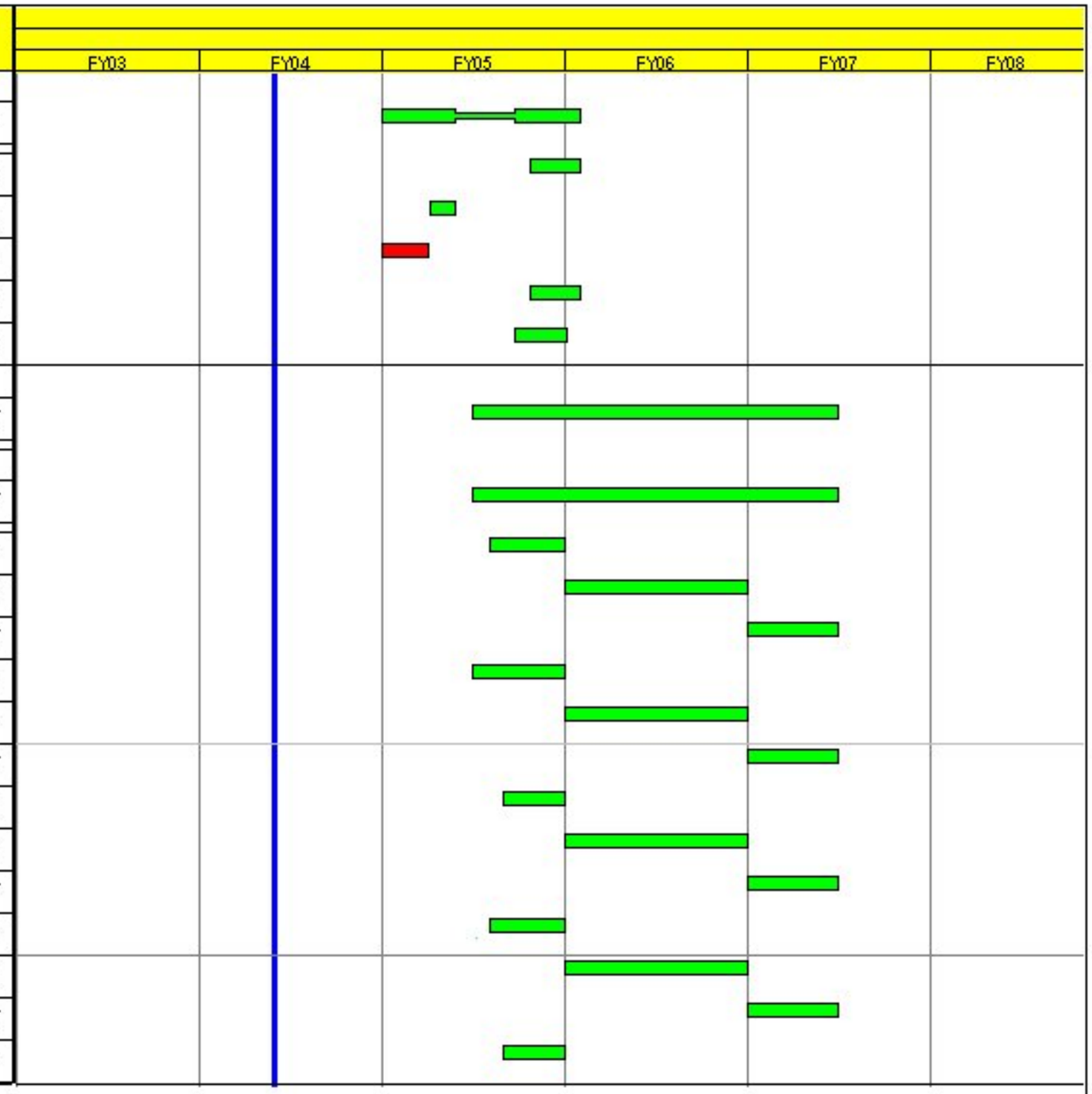
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1. 1.2 .1 .3	PE Technical Design			
Subtotal		272	01OCT04	31OCT05
11001415	Design/Prepare Specs for NP Equipment	70	25JUL05	31OCT05
11001425	Design/Prepare Specs for UF Equipment	35	03JAN05	22FEB05
11001435	Design/Prepare Specs for EM Equipment	62	01OCT04	31DEC04
11001445	Design/Prepare Specs for MS Equipment	70	25JUL05	31OCT05
11001455	Design/Prepare Specs for PP Equipment	70	23JUN05	03OCT05
1. 1.2 .2	Project Engineering - Construction Phase			
Subtotal		500	01APR05	30MAR07
1. 1.2 .2 .1	PE Conventional Construction			
Subtotal		500	01APR05	30MAR07
11001385	BNL Title III Services - EP-Design Group	105	03MAY05	30SEP05
11001386	BNL Title III Services - EP-Design Group	250	03OCT05	29SEP06
11001387	BNL Title III Services - EP-Design Group	123	02OCT06	30MAR07
11001390	HDR Field Engineering FY05	127	01APR05	30SEP05
11001392	HDR Field Engineering FY06	250	03OCT05	29SEP06
11001394	HDR Field Engineering FY07	123	02OCT06	30MAR07
11001395	BNL Title III Services - EP-Constr. Supt.	85	01JUN05	30SEP05
11001396	BNL Title III Services - EP-Constr. Supt.	250	03OCT05	29SEP06
11001398	BNL Title III Services - EP-Constr. Supt.	123	02OCT06	30MAR07
11001400	HDR - Shop Dwg Review FY05	105	03MAY05	30SEP05
11001402	HDR - Shop Dwg Review FY06	250	03OCT05	29SEP06
11001404	HDR - Shop Dwg Review FY07	123	02OCT06	30MAR07
11001405	Commissioning Plan Review FY05	85	01JUN05	30SEP05



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Project Schedule

Early Bar
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Critical Activity

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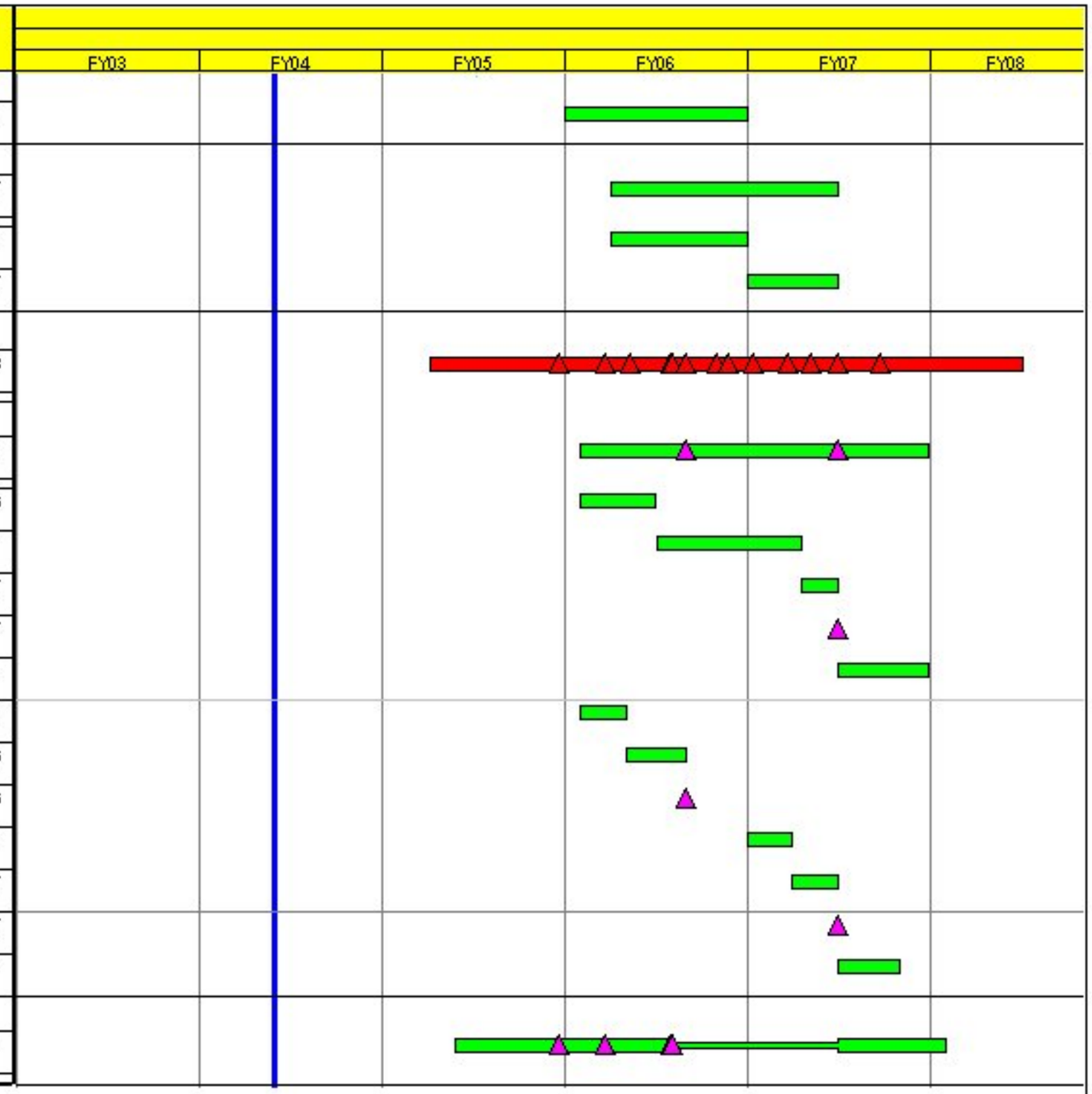
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1. 1.2 .2 .1	PE Conventional Construction			
11001407	Commissioning Plan Review FY06	250	03OCT05	29SEP06
1. 1.2 .2 .2	PE Technical Equipment			
Subtotal		312	02JAN06	30MAR07
11001410	Provide Tech. Supt. during Lab	189	02JAN06	29SEP06
11001412	Provide Tech. Supt. during Lab	123	02OCT06	30MAR07
1. 2 Technical Equipment				
Subtotal		813	03JAN05	31MAR08
1. 2. 1 Nanopatterning [N P]				
Subtotal		478	01NOV05	28SEP07
12100010	FY06 Procurement of EB Lithography	103	01NOV05	31MAR06
12100015	EB Lithography Assembly	200	03APR06	18JAN07
12100017	Ship from Vendor	49	19JAN07	30MAR07
12100020	Delivery EB Lithography	0		30MAR07
12100025	Installation & Testing of EB Lithography	126	02APR07	28SEP07
12100030	FY06 Procurement Additional NP	63	01NOV05	02FEB06
12100035	FY06 Assembly of Additional NP Equip.	81	03FEB06	30MAY06
12100040	FY06 Delivery Additional NP Equip	0		30MAY06
12100042	FY07 Procurement Additional NP	60	02OCT06	28DEC06
12100043	FY07 Assembly of Additional NP Equip	63	29DEC06	30MAR07
12100044	FY07 Delivery Additional NP Equip	0		30MAR07
12100045	Installation & Testing Additional NP	84	02APR07	31JUL07
1. 2. 2 Ultrafast Optical Sources [U F]				
Subtotal		676	23FEB05	31OCT07



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Critical Activity

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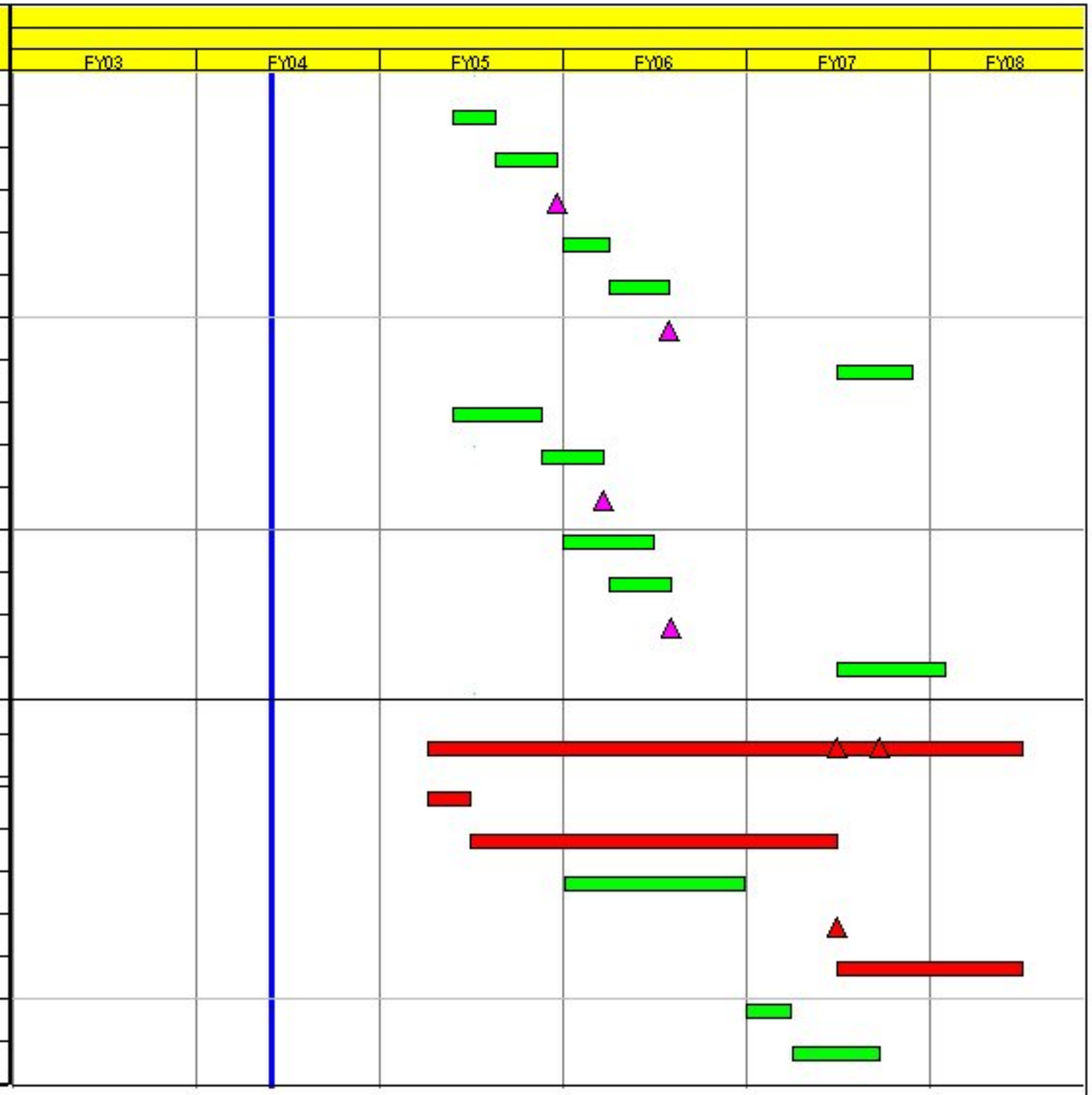
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1. 2. 2 Ultrafast Optical Sources [U F]				
1200010	FY05 Procurement of Laser System	62	23FEB05	19MAY05
1200012	Assembly of Laser System	83	20MAY05	19SEP05
1200014	Delivery	0		19SEP05
1200016	FY06 Procurement of Laser System	62	03OCT05	02JAN06
1200018	Assembly of Laser System	83	03JAN06	01MAY06
1200020	Delivery	0		01MAY06
1200025	Installation & Testing of Laser System	105	02APR07	29AUG07
1200032	FY05 Procurement of Additional UF	123	23FEB05	17AUG05
1200034	Assembly of Additional FY05 UF	84	18AUG05	19DEC05
1200036	Delivery	0		19DEC05
1200038	FY06 Procurement of Additional UF	123	03OCT05	30MAR06
1200042	Assembly of Additional FY06 UF	84	03JAN06	02MAY06
1200044	Delivery	0		02MAY06
1200046	Installation & Testing of UF Additional	149	02APR07	31OCT07
1. 2. 3 Electron Microscopy [E M]				
Subtotal		813	03JAN05	31MAR08
1300020	FY05 Procurement of STEM	62	03JAN05	31MAR05
1300025	Assembly of STEM at Factory and Ship	500	01APR05	30MAR07
1300027	BNL Vendor Support	245	06OCT05	27SEP06
1300030	Delivery of STEM	0		30MAR07
1300035	Installation & Testing of STEM	251	02APR07	31MAR08
1300065	FY07 Procurement of Additional EM	61	02OCT06	29DEC06
1300070	Assembly of Additional FY07 EM	120	02JAN07	21JUN07



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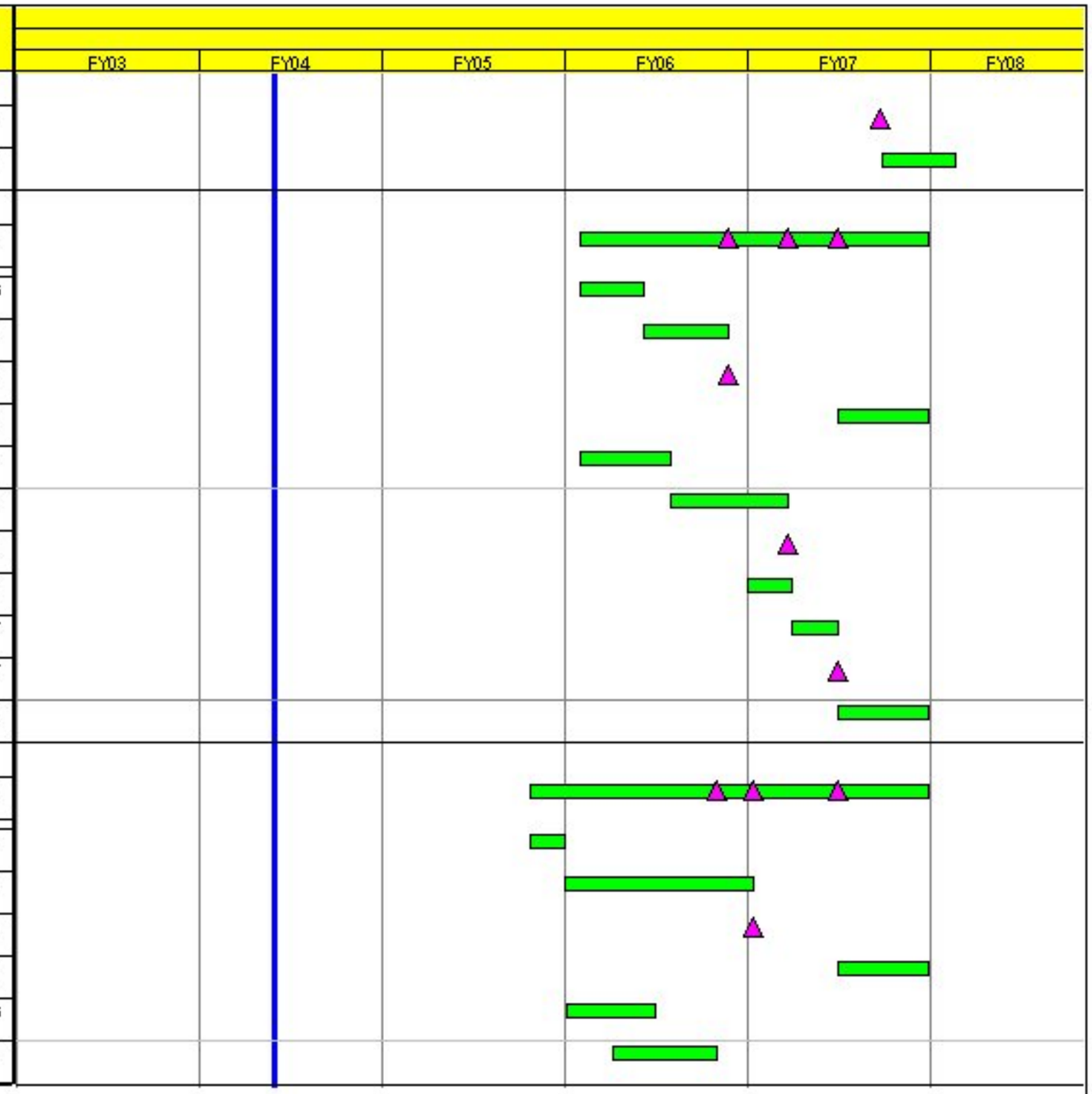
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1. 2. 3 Electron Microscopy [E M]				
12300075	Delivery	0		21JUN07
12300080	Installation & Testing of Additional EM	103	26JUN07	21NOV07
1. 2. 4 Material Synthesis [MS]				
Subtotal		478	01NOV05	28SEP07
12400010	FY06 Procurement of MBE	84	01NOV05	06MAR06
12400015	Assembly of MBE	120	07MAR06	24AUG06
12400020	Delivery of MBE	0		24AUG06
12400025	Installation & Testing of MBE	126	02APR07	28SEP07
12400030	FY06 Procurement of Additional	123	01NOV05	28APR06
12400032	Assembly of Addit. FY06 Equipment	160	01MAY06	19DEC06
12400034	Delivery	0		19DEC06
12400040	FY07 Procurement of Additional	60	02OCT06	28DEC06
12400042	Assembly of Addit. FY07 Equipment	63	29DEC06	30MAR07
12400044	Delivery	0		30MAR07
12400050	Installation & Testing of Additional MS	126	02APR07	28SEP07
1. 2. 5 Proximal Probes [P P]				
Subtotal		548	25JUL05	28SEP07
12500010	FY05 Procurement of LEEM &	49	25JUL05	30SEP05
12500020	Vendor Assembly & Ship	260	03OCT05	13OCT06
12500025	Delivery	0		13OCT06
12500030	Installation & Testing	126	02APR07	28SEP07
12500035	FY06 Procurement of Additional PP	123	04OCT05	31MAR06
12500040	Vendor Assembly & Ship FY06 Add. PP	144	04JAN06	31JUL06



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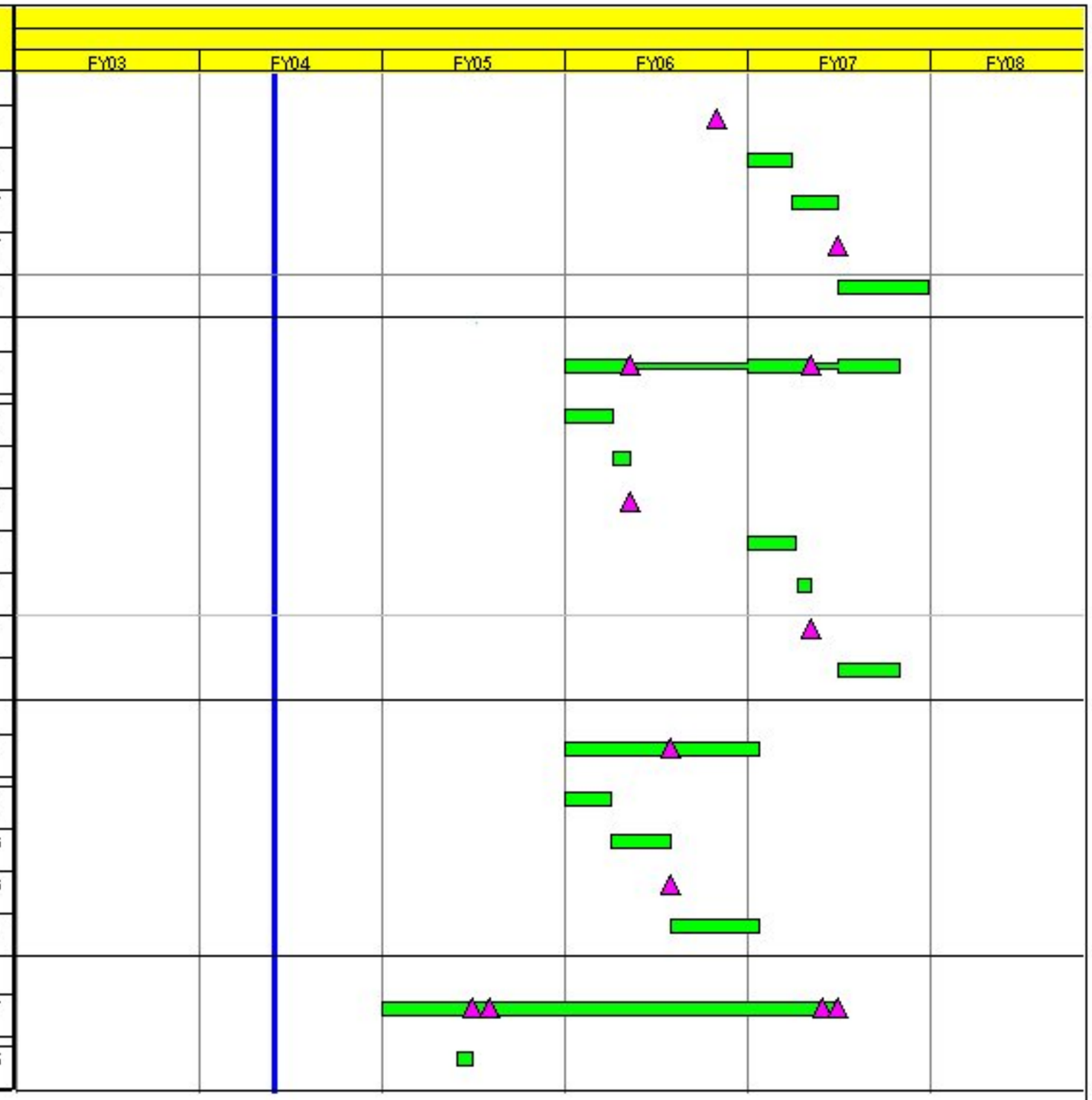
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1. 2. 5 Proximal Probes [P P]				
12500045	Delivery	0		31JUL06
12500050	FY07 Procurement of Additional PP	60	02OCT06	28DEC06
12500055	Vendor Assembly & Ship FY07 Add PP	63	29DEC06	30MAR07
12500060	Delivery	0		30MAR07
12500065	Installation & Testing Additional PP	126	02APR07	28SEP07
1. 2. 6 Theory & Computation [T & C]				
Subtotal		457	03OCT05	31JUL07
12600010	FY06 Procurement of T&C Equipment	65	03OCT05	05JAN06
12600020	Assembly of T&C Equipment	21	06JAN06	06FEB06
12600025	Delivery	0		06FEB06
12600035	FY 07 Procurement of Addit. T&C	65	02OCT06	05JAN07
12600040	Assembly of Additional T&C Equipment	21	08JAN07	06FEB07
12600045	Delivery	0		06FEB07
12600050	Installation & Testing T&C Equipment	84	02APR07	31JUL07
1. 2. 7 CFN End Stations at NSLS				
Subtotal		268	03OCT05	25OCT06
12700010	FY06 Procurement of Equipment	61	03OCT05	30DEC05
12700015	Lead Time to Delivery	84	02JAN06	01MAY06
12700020	Delivery	0		01MAY06
12700025	Installation & Testing CFN End Stations	123	02MAY06	25OCT06
1. 3 Conventional Construction				
Subtotal		624	01OCT04	30MAR07
13000051	Demo/Relocate Teachers Federal Credit	23	01MAR05*	31MAR05



Start Date 27MAR02
Finish Date 30APR08
Data Date 01MAR04
Run Date 14JUL04 12:30

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CENTER FOR FUNCTIONAL NANOMATERIALS (CFN)
Project Schedule

Early Bar
Progress Bar
Critical Activity

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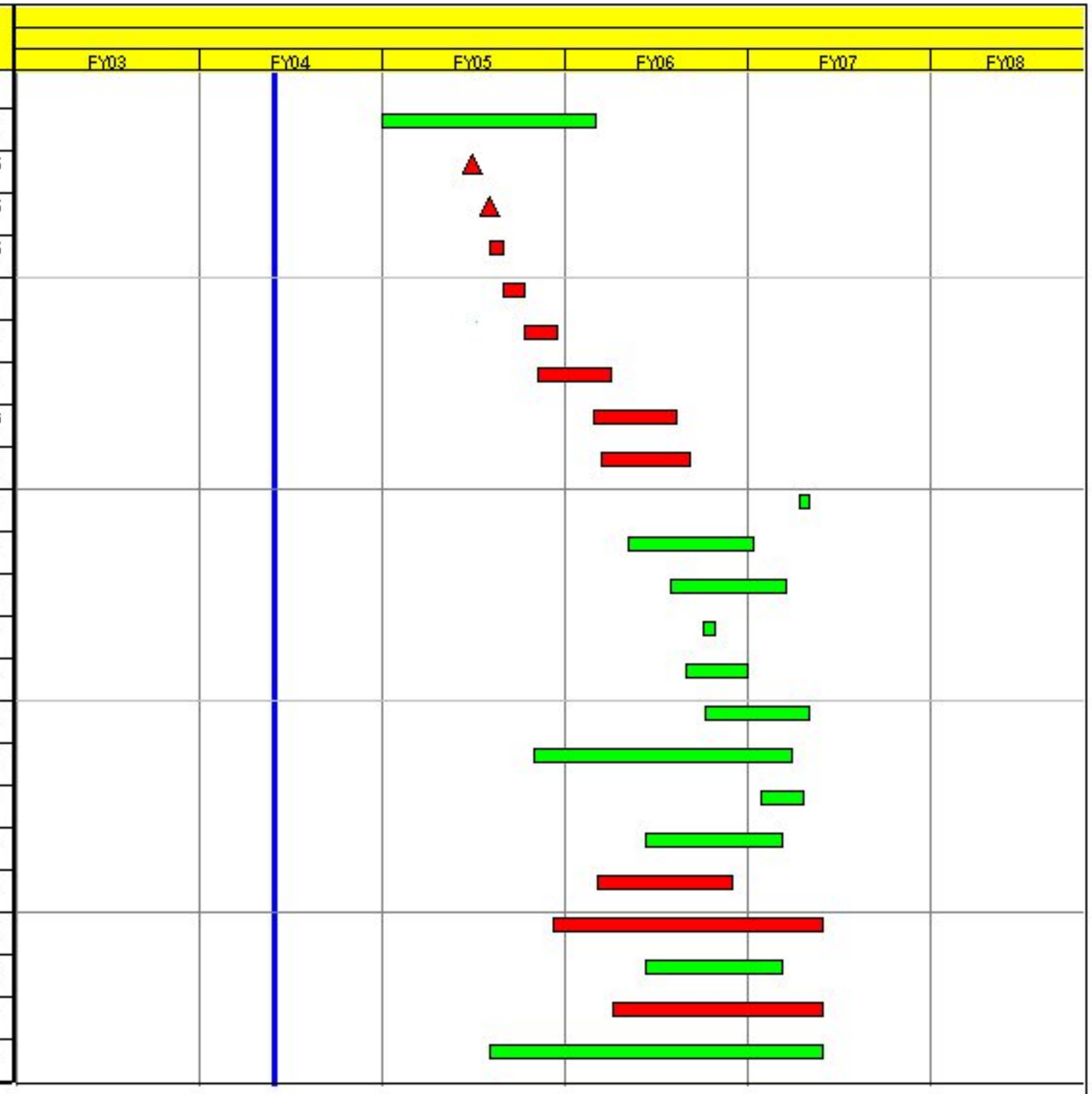
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1. 3 Conventional Construction				
13000052	Satelite Chilled Water Plant Installation	291	01OCT04*	30NOV05
13000053	CONSTRUCTION CONTRACT AWARD	0		31MAR05
13000054	CONSTRUCTION - NOTICE TO PROCEED	0		02MAY05
13000070	Mobilize	20	03MAY05	31MAY05
13000072	Site Work	28	01JUN05	12JUL05
13000075	Sub structure	45	13JUL05	14SEP05
13000080	Super Structure	100	08AUG05	30DEC05
13000085	Exterior Closure	116	28NOV05	11MAY06
13000090	Roofing	126	12DEC05	09JUN06
13000092	Conveying Systems	13	12JAN07	31JAN07
13000095	Interior Construction	175	06FEB06	13OCT06
13000100	Interior Finishes	158	01MAY06	15DEC06
13000105	Building Specialities	17	05JUL06	27JUL06
13000110	Equipment	86	30MAY06	29SEP06
13000115	Special Construction	141	07JUL06	30JAN07
13000117	Remaining Site Work	355	01AUG05	29DEC06
13000120	Furnishings	55	30OCT06	19JAN07
13000130	Plumbing & Waste Water Systems	188	13MAR06	08DEC06
13000135	Fire Protection	189	05DEC05	01SEP06
13000140	H.V.A.C.	369	07SEP05	28FEB07
13000143	Process Systems	188	13MAR06	08DEC06
13000145	Electrical/Life Safety/Telecomm	288	04JAN06	28FEB07
13000155	General Conditions, Fee, and Bonds	456	03MAY05	28FEB07



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CENTER FOR FUNCTIONAL NANOMATERIALS (CFN)
Project Schedule

Early Bar
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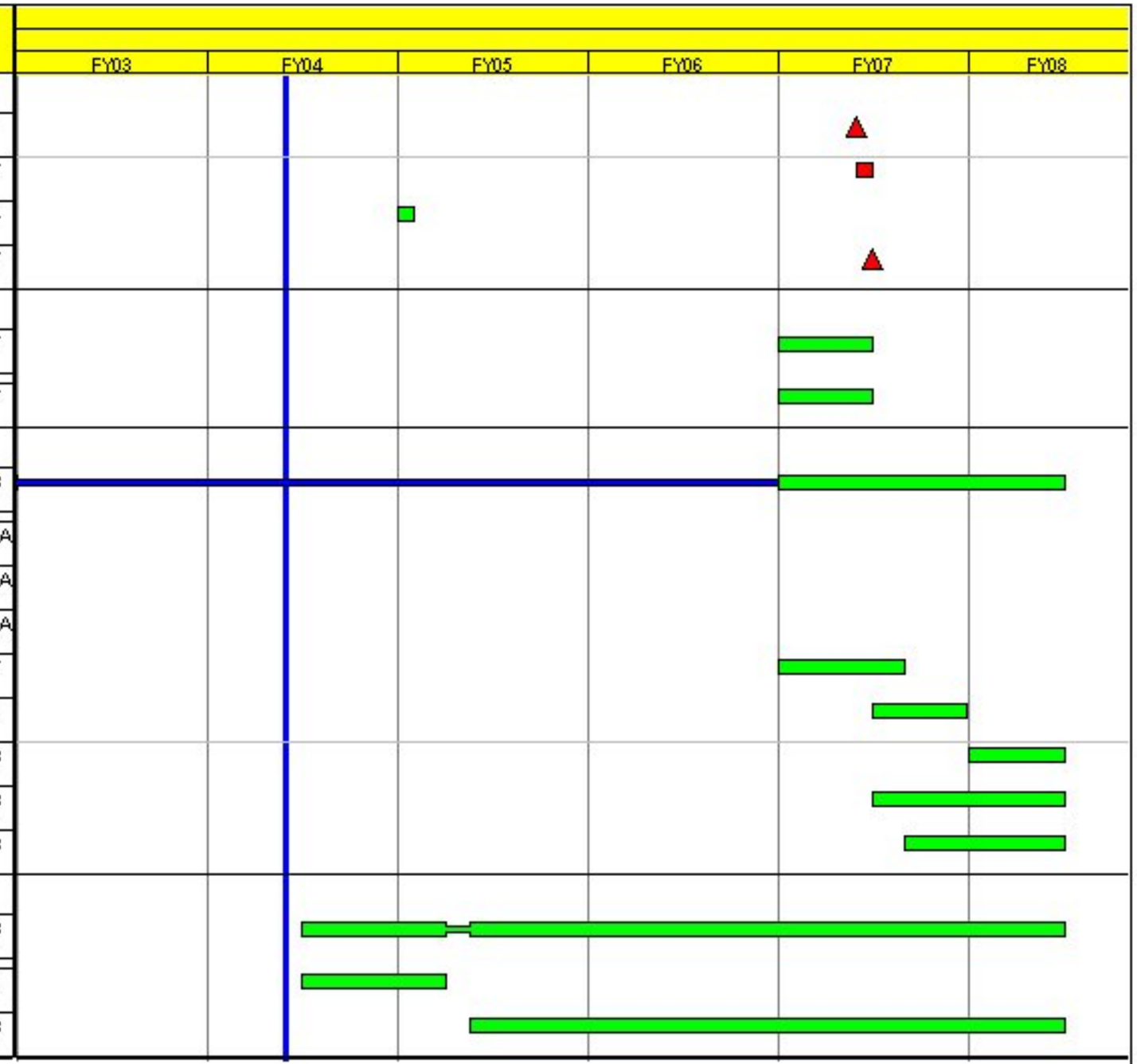
Critical Activity

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1. 3 Conventional Construction				
13000165	Substantial Completion (ORE)	0		28FEB07
13000185	Contractor Completes final Punchlist Items	22	01MAR07	30MAR07
13000193	Design Contingency	21	01OCT04	29OCT04
13000195	Construction Complete	0		30MAR07
1. 4 Standard Equipment				
Subtotal		123	02OCT06	30MAR07
14001000	PROCUREMENT, DELIVERY &	123	02OCT06	30MAR07
1. 5 Other Project Costs				
Subtotal		1,451	13JUN02A	31MAR08
14001010	Conceptual Design Report	1	13JUN02A	30SEP02A
14001015	NEPA Documentation	1	13JUN02A	30SEP02A
14001020	Hazards Analysis	1	01JUL02A	30SEP02A
14001025	Building/LEED Commissioning	166	02OCT06	31MAY07
14001030	Final Hook-Up & Testing FY07	126	02APR07	28SEP07
14001031	Final Hook-Up & Testing FY08	125	01OCT07	31MAR08
14001034	User Move-in Costs	251	02APR07	31MAR08
14001035	Other Project Related Costs	208	01JUN07	31MAR08
1. 6 Contingency				
Subtotal		1,002	01APR04	31MAR08
14001005	Design Phase	189	01APR04	31DEC04
14001040	Construction Phase	780	18FEB05	31MAR08



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