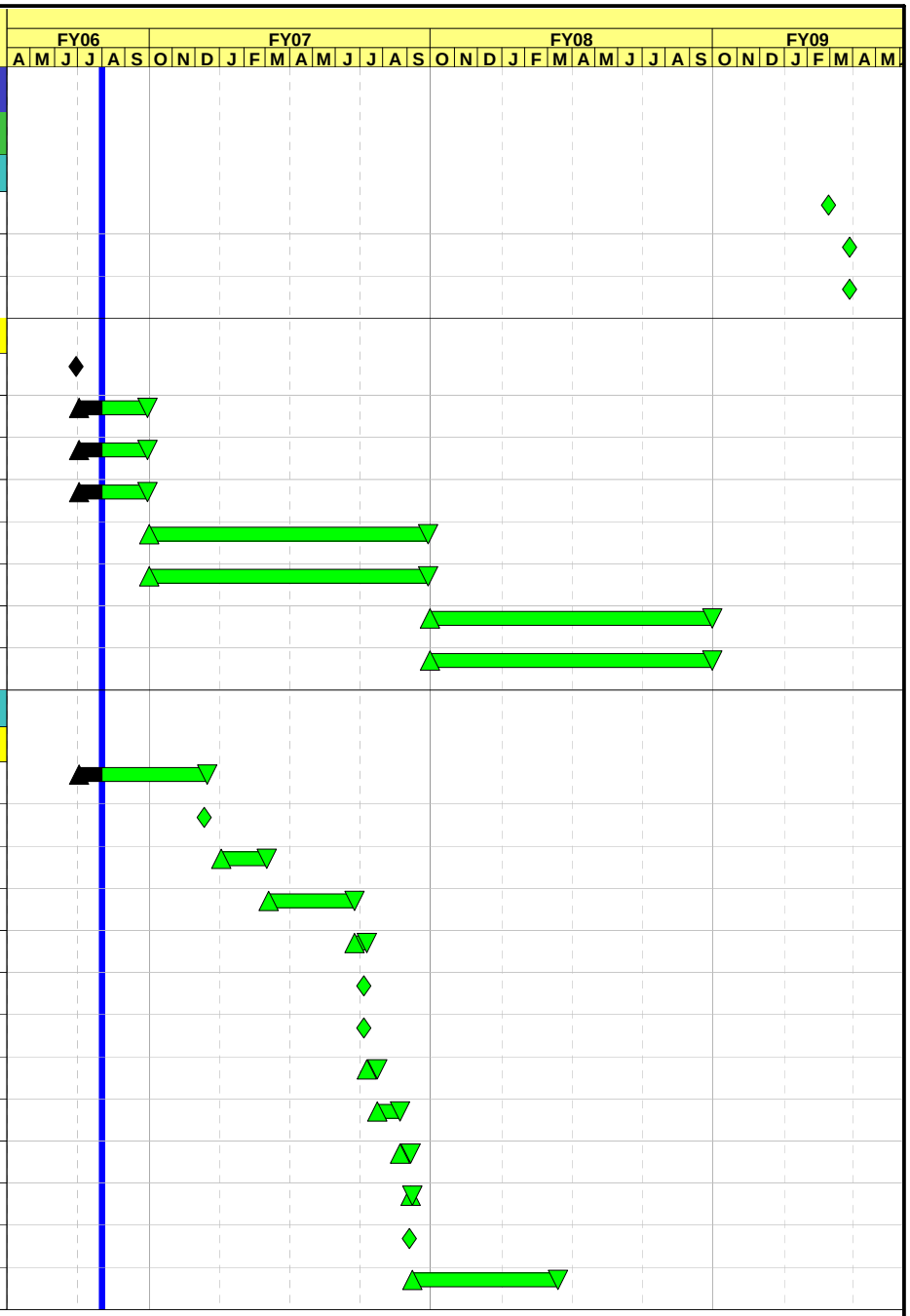
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1 LCLS PROJECT - PED & CONSTRUCTION				
1.06 X-RAY END STATION SYSTEMS				
1.06.01 System Management & Integration				
XE_4457	End Stations Commissioning Complete	0		03/04/09
XE_30	COMP: End Stations Project	0		03/31/09*
XE_LOE	COMP: End Stations LOE Tasks	0		03/31/09*
1.06.01.01 Management				
XE10_ETC	Start of ETC Replan	0	07/03/06A	
XE_033A	Management & Oversight - Jul-Sep06	63*	07/03/06A	09/29/06
XE_0463	Travel - Jul-Sep06	63*	07/03/06A	09/29/06
XE_226	Commission Coordinator - Jul-Sep06	63*	07/03/06A	09/29/06
XE_034	Management & Oversight - FY07	242	10/02/06	09/28/07
XE_0472	Travel - FY07	242	10/02/06	09/28/07
XE_035	Management & Oversight - FY08	243	10/01/07	09/30/08
XE_0482	Travel - FY08	243	10/01/07	09/30/08
1.06.04 Laser Subsystem				
1.06.04.01 XES Laser				
XE_0413	Prep form, Offer, Hire - Laser Scientist	116*	07/03/06A	12/15/06
XE_M15	Hire Laser Scientist	0		12/15/06
XE1410020	Specification - XES Laser	40	01/04/07*	03/02/07
XE1410030	Design - XES Laser	80	03/05/07	06/25/07
XE1410040	Design Review - XES Laser	10	06/26/07	07/10/07
XE1410050	COMP: Design - XES Laser	0		07/10/07
XE1410060	Laser System Final Design Review	0		07/10/07
XE1410070	Prep Bid Pkg - XES Laser	10	07/11/07	07/24/07
XE1410080	Bid Process - XES Laser	20	07/25/07	08/21/07
XE1410090	Evaluation of Proposals - XES Laser	10	08/22/07	09/05/07
XE1410100	AWARD: Contract - XES Laser	1	09/06/07	09/06/07
XE1410110	Award of XES Laser	0		09/06/07
XE1410120	Vendor Fab/Ship - XES Laser	120	09/07/07	03/14/08



Start Date 06/01/01
Finish Date 04/01/09
Data Date 08/01/06

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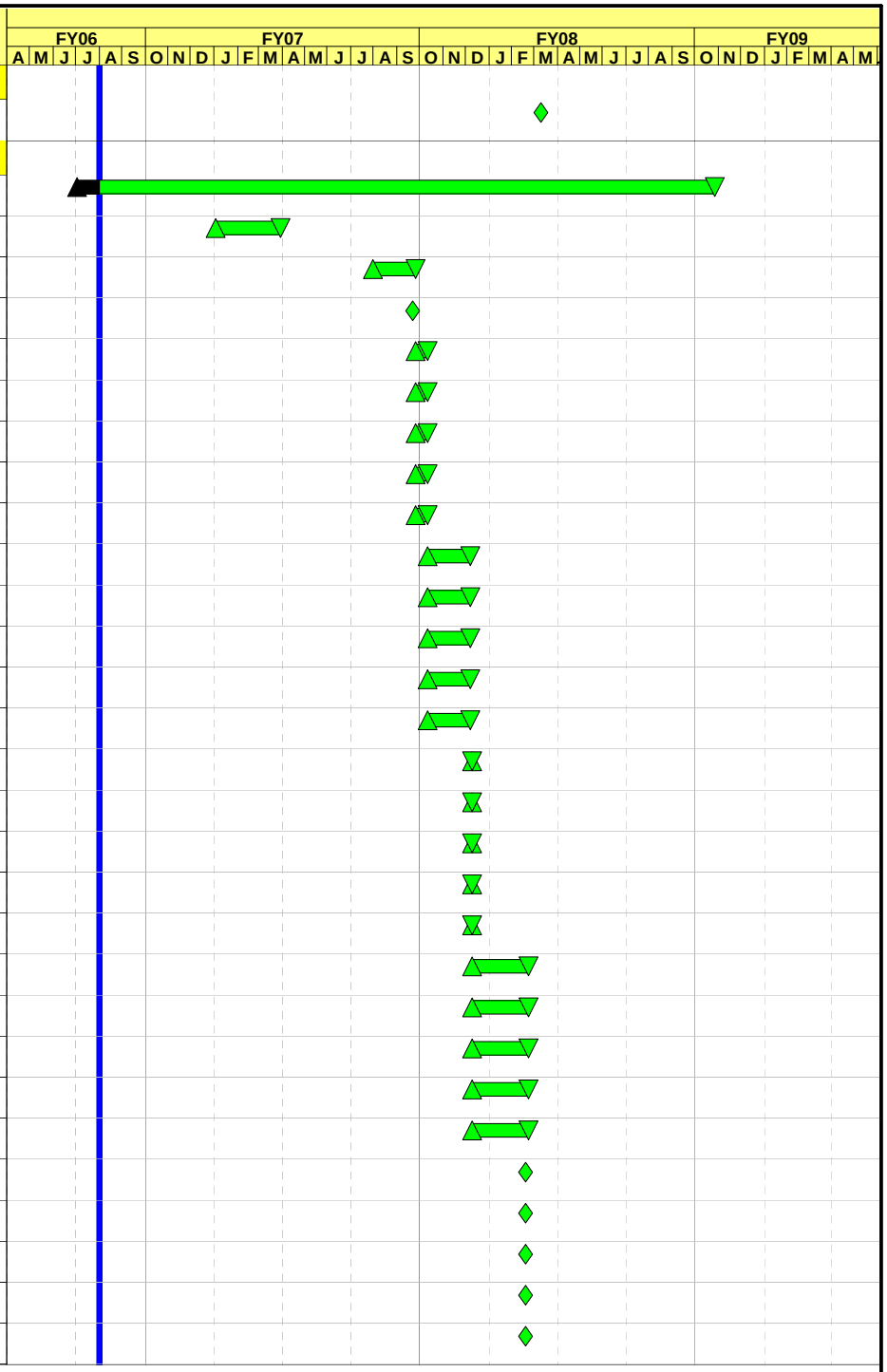
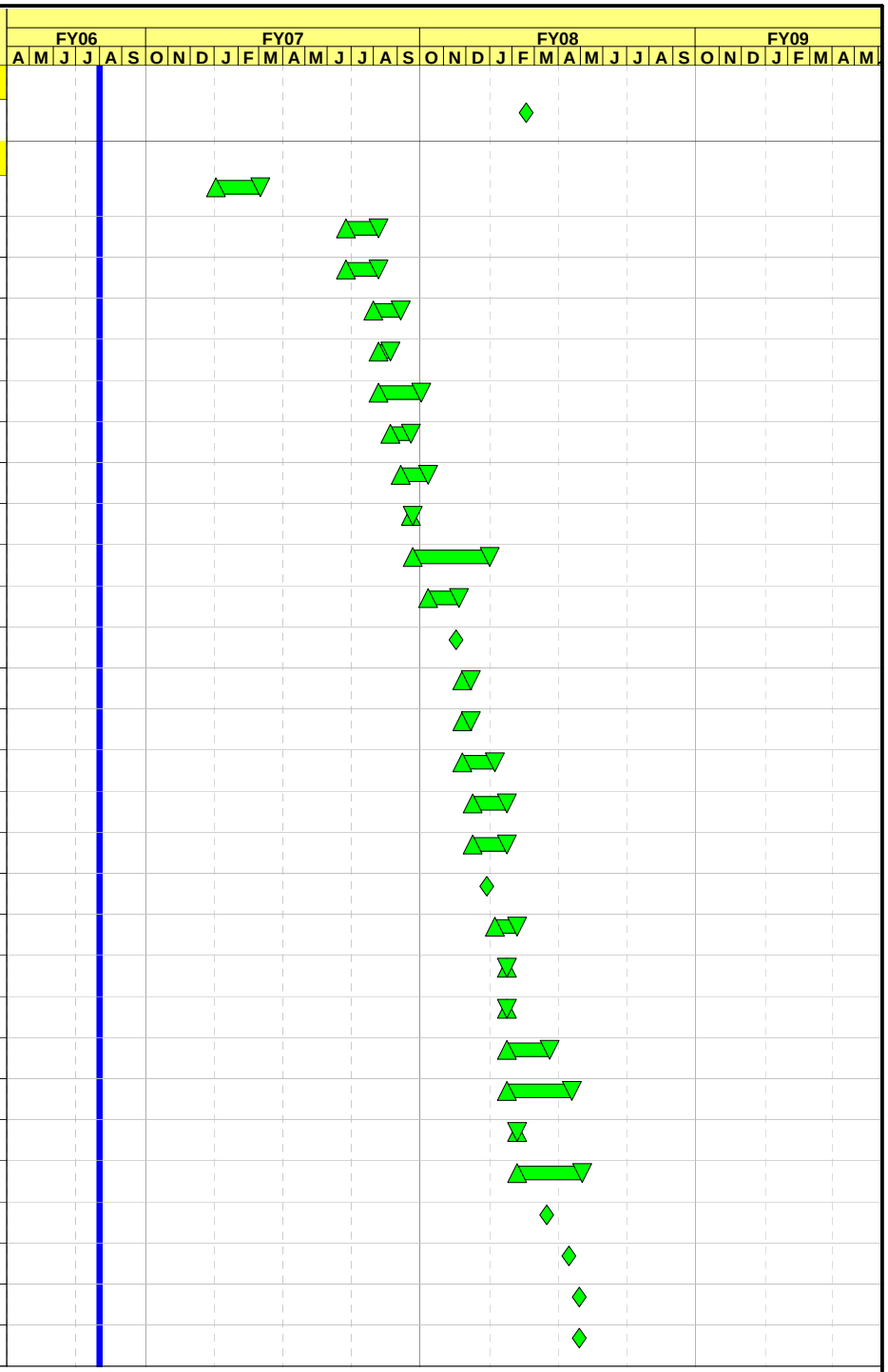
LCLS PROJECT
Integrated Master Schedule
X-Ray Endstation Systems

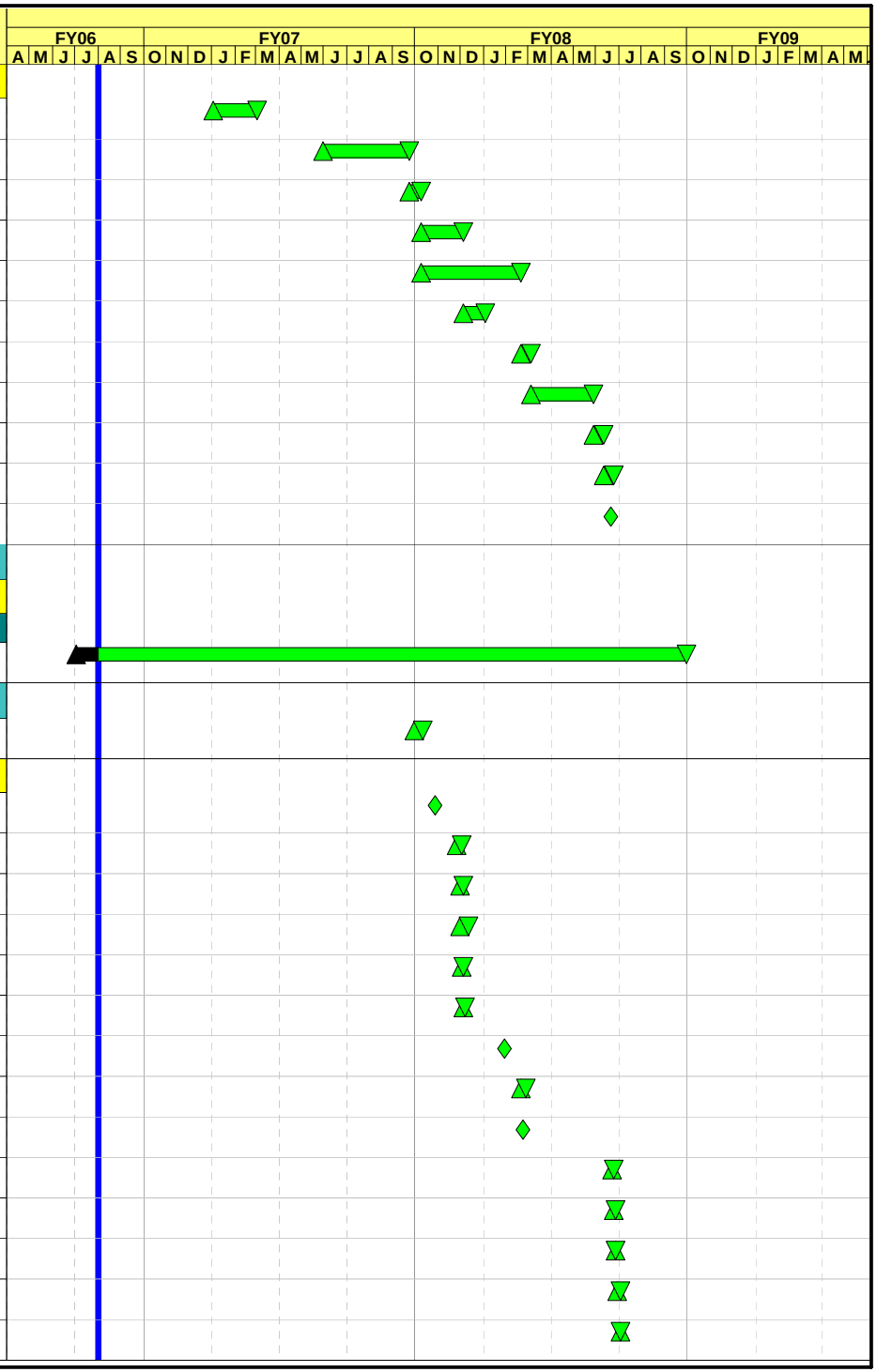
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1.06.04.01 XES Laser				
XE1410130	RECV: XES Laser	0		03/14/08
1.06.04.02 Laser Diagnostics				
XE1420020	Engineering - Laser Diagnostics	568	07/03/06A	10/28/08
XE1420030	Specification - Laser Diagnostics	60	01/04/07*	03/30/07
XE1420040	Design - Laser Diagnostics	40	08/01/07*	09/26/07
XE1420050	COMP: Design - Laser Diagnostics	0		09/26/07
XE1420060	Prep Bid Pkg Energy Sensors - Laser Diagnostics	10	09/27/07	10/10/07
XE1420110	Prep Bid Pkg IR FROG - Laser Diagnostics	10	09/27/07	10/10/07
XE1420160	Prepare Bid Pkg Fast Diodes - Laser Diagnostics	10	09/27/07	10/10/07
XE1420210	Prep Bid Pkg Oscilloscope - Laser Diagnostics	10	09/27/07	10/10/07
XE1420260	Prep Bid Pkg Autocorrelators - Laser Diagnostic	10	09/27/07	10/10/07
XE1420070	Bid Process Energy Sensors - Laser Diagnostics	40	10/11/07	12/07/07
XE1420120	Bid Process IR FROG - Laser Diagnostics	40	10/11/07	12/07/07
XE1420170	Bid Process Fast Diodes - Laser Diagnostics	40	10/11/07	12/07/07
XE1420220	Bid Process Oscilloscope - Laser Diagnostics	40	10/11/07	12/07/07
XE1420270	Bid Process Autocorrelators - Laser Diagnostics	40	10/11/07	12/07/07
XE1420080	AWARD: Energy Sensors - Laser Diagnostics	1	12/10/07	12/10/07
XE1420130	AWARD: Contract - IR FROG - Laser Diagnostics	1	12/10/07	12/10/07
XE1420180	AWARD: Fast Diodes - Laser Diagnostics	1	12/10/07	12/10/07
XE1420230	AWARD: Contract Oscilloscope- Laser Diagnostics	1	12/10/07	12/10/07
XE1420280	AWARD: Autocorrelators - Laser Diagnostics	1	12/10/07	12/10/07
XE1420090	Fab/Ship Energy Sensors - Laser Diagnostics	40	12/11/07	02/22/08
XE1420140	Vendor Ship IR FROG- Laser Diagnostics	40	12/11/07	02/22/08
XE1420190	Vendor Fab/Ship Fast Diodes - Laser Diagnostics	40	12/11/07	02/22/08
XE1420240	Vendor Fab/Ship Oscilloscope - Laser Diagnostics	40	12/11/07	02/22/08
XE1420290	Fab/Ship Autocorrelators - Laser Diagnostics	40	12/11/07	02/22/08
XE1420100	RECV: Energy Sensors - Laser Diagnostics	0		02/22/08
XE1420150	RECV: IR FROG - Laser Diagnostics	0		02/22/08
XE1420200	RECV: Fast Diodes - Laser Diagnostics	0		02/22/08
XE1420250	RECV: Oscilloscope - Laser Diagnostics	0		02/22/08
XE1420300	RECV: Autocorrelators - Laser Diagnostics	0		02/22/08



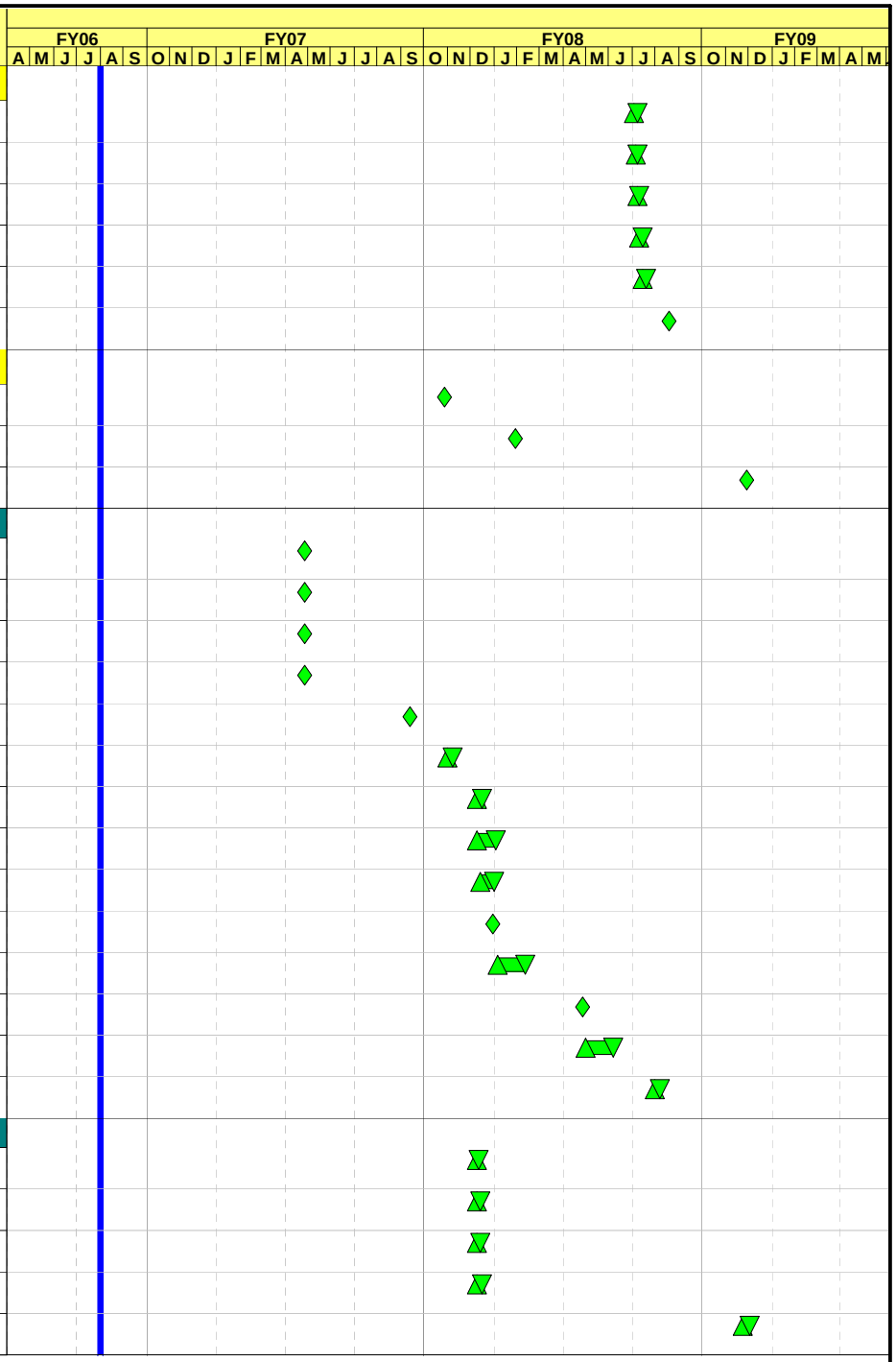
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1.06.04.02 Laser Diagnostics				
XE1420310	AVAIL: Laser Diagnostics	0		02/22/08
1.06.04.03 Laser Optical Transport				
XE1430020	Specification - Laser Optic Transport	40	01/04/07*	03/02/07
XE1430036	Design Earthquake restraints for Optical Tables	30	06/26/07	08/07/07
XE1430038	Design Enclosures for Optical Tables	30	06/26/07	08/07/07
XE1430030	Conceptual Design - Laser Optic Transport	25	08/01/07*	09/05/07
XE1430150	Prep Bid Pkg Optic Tables (4) - Laser Optic Tran	10	08/08/07	08/21/07
XE1430245	Procure Enclosures for Optical Tables	40	08/08/07	10/03/07
XE1430160	Bid Process Optic Tables (4) - Laser Optic Trans	20	08/22/07	09/19/07
XE1430032	Preliminary Design - Laser Optic Transport	25	09/06/07	10/10/07
XE1430170	AWARD: Contract Optic Tables (4) - Laser Optic T	1	09/20/07	09/20/07
XE1430180	Vendor Fab/Ship Optic Tables (4) -Laser Optic Tr	60	09/21/07	01/02/08
XE1430034	Final Design - Laser Optic Transport	30	10/11/07	11/21/07
XE1430040	COMP: Design Laser Optic Transport	0		11/21/07
XE1430050	Prep Bid Pkg Lenses & Mirrors - Laser Optic Tran	10	11/26/07	12/07/07
XE1430200	Prep Bid Pkg Cabinets - Laser Optic Transport	10	11/26/07	12/07/07
XE1430100	Prep Bid Pkg Shielding/Contain - Laser Optic Tra	20	11/26/07	01/08/08
XE1430060	Bid Process Lenses & Mirrors - Laser Optic Trans	20	12/10/07	01/23/08
XE1430210	Bid Process Cabinets - Laser Optic Transport	20	12/10/07	01/23/08
XE1430190	RECV: Optic Tables (4) - Laser Optic Transport	0		01/02/08
XE1430110	Bid Process Shielding/Contain - Laser Optic Tran	20	01/09/08	02/06/08
XE1430070	AWARD: Contract Lenses & Mirrors-Laser Optic Tra	1	01/24/08	01/24/08
XE1430220	AWARD: Contract Cabinets - Laser Optic Transport	1	01/24/08	01/24/08
XE1430230	Vendor Fab/Ship Cabinets -Laser Optic Transport	40	01/25/08	03/21/08
XE1430080	Vendor Fab/Ship Lenses & Mirrors -Laser Optic Tr	60	01/25/08	04/18/08
XE1430120	AWARD: Contract Shielding/Contai - Laser Optic T	1	02/07/08	02/07/08
XE1430130	Vendor Fab/Ship Shielding/Conta -Laser Optic Tra	60	02/08/08	05/02/08
XE1430240	RECV: Cabinets - Laser Optic Transport	0		03/21/08
XE1430090	RECV: Lenses & Mirrors - Laser Optic Transport	0		04/18/08
XE1430140	RECV: Shielding/Contain - Laser Optic Transport	0		05/02/08
XE1430250	AVAIL: Laser Optic Transport	0		05/02/08



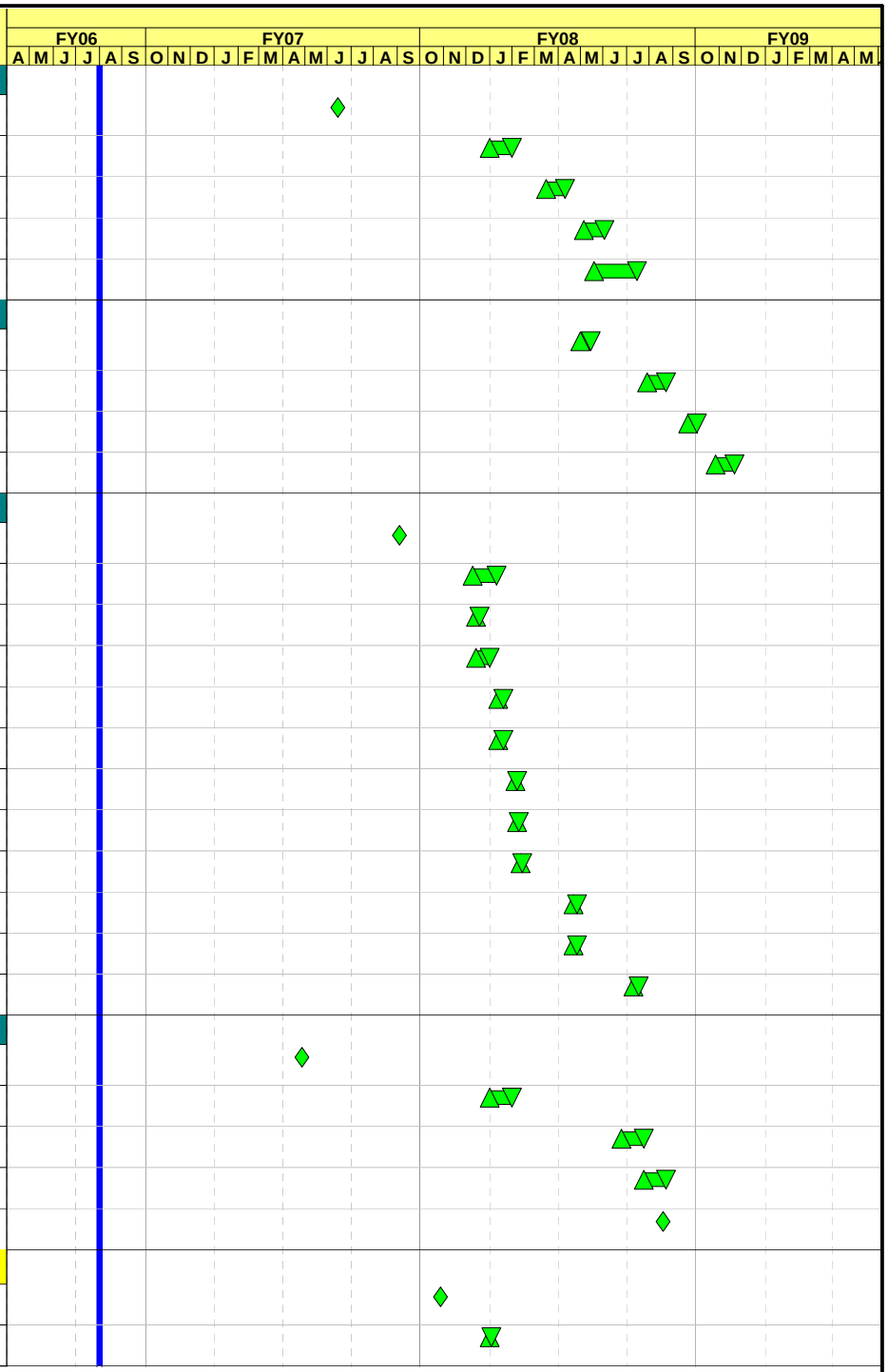
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1.06.04.04 Laser Safety				
XE1450020	Write SOP - Laser Safety	40	01/04/07	03/02/07
XE1450030	Prepare for Laser Safety PDR	80	06/01/07*	09/24/07
XE1450040	Laser Safety PDR	10	09/25/07	10/08/07
XE1450050	Prepare for Laser Safety FDR	40	10/09/07	12/05/07
XE1450045	Prepare for Laser Safety Oversight Comm. Review	80	10/09/07	02/19/08
XE1450060	Laser Safety FDR	10	12/06/07	01/04/08
XE1450047	Laser Safety Oversight Comm. Review	10	02/20/08	03/04/08
XE1450070	Prepare for Laser Safety Committee Review	60	03/05/08	05/28/08
XE1450080	Laser Safety Committee Review	10	05/29/08	06/11/08
XE1450090	Procure Laser PPS	10	06/12/08	06/25/08
XE1450100	RECV: Laser PPS	0		06/25/08
1.06.05 X-Ray Detectors				
1.06.05.04 Detector & Streak Camera				
1.06.05.04.01 X-Ray Detector Management				
XE1541010	Detector Engineering	548*	07/03/06A	09/30/08
1.06.06 System Installation & Alignment				
XE1600050	Install data storage farm in computer bldg.?	10	10/01/07*	10/12/07
1.06.06.01 Front End Install				
XE1610010	REQD: FEE Co-Occupancy	0		11/01/07
XE1610550	Install doors	5	11/27/07	12/03/07
XE1610535	Install FEE BCS BSOIC's, cables, AC	4	11/30/07	12/05/07
XE1610530	Install FEE PPS cable, signs, audio, keybank	8	11/30/07	12/11/07
XE1610560	Test Kirk lock, emergency egress	1	12/04/07	12/04/07
XE1610570	Wire PPS for doors	2	12/05/07	12/06/07
XE1610000	REQD: FEE Beneficial Occupancy	0		02/01/08
XE1610580	Test/Certify FEE HPS	5	02/20/08	02/26/08
XE1610585	COMP: Test/Certify FEE HPS	0		02/26/08
XE1610350	Install SXR stoppers (2)	3	06/23/08	06/25/08
XE1610360	Align SXR stoppers (2)	1	06/26/08	06/26/08
XE1610380	Install SXR stopper collimation	1	06/27/08	06/27/08
XE1610390	Install HXR stoppers	3	06/30/08	07/02/08
XE1610400	Align HXR stoppers	1	07/03/08	07/03/08



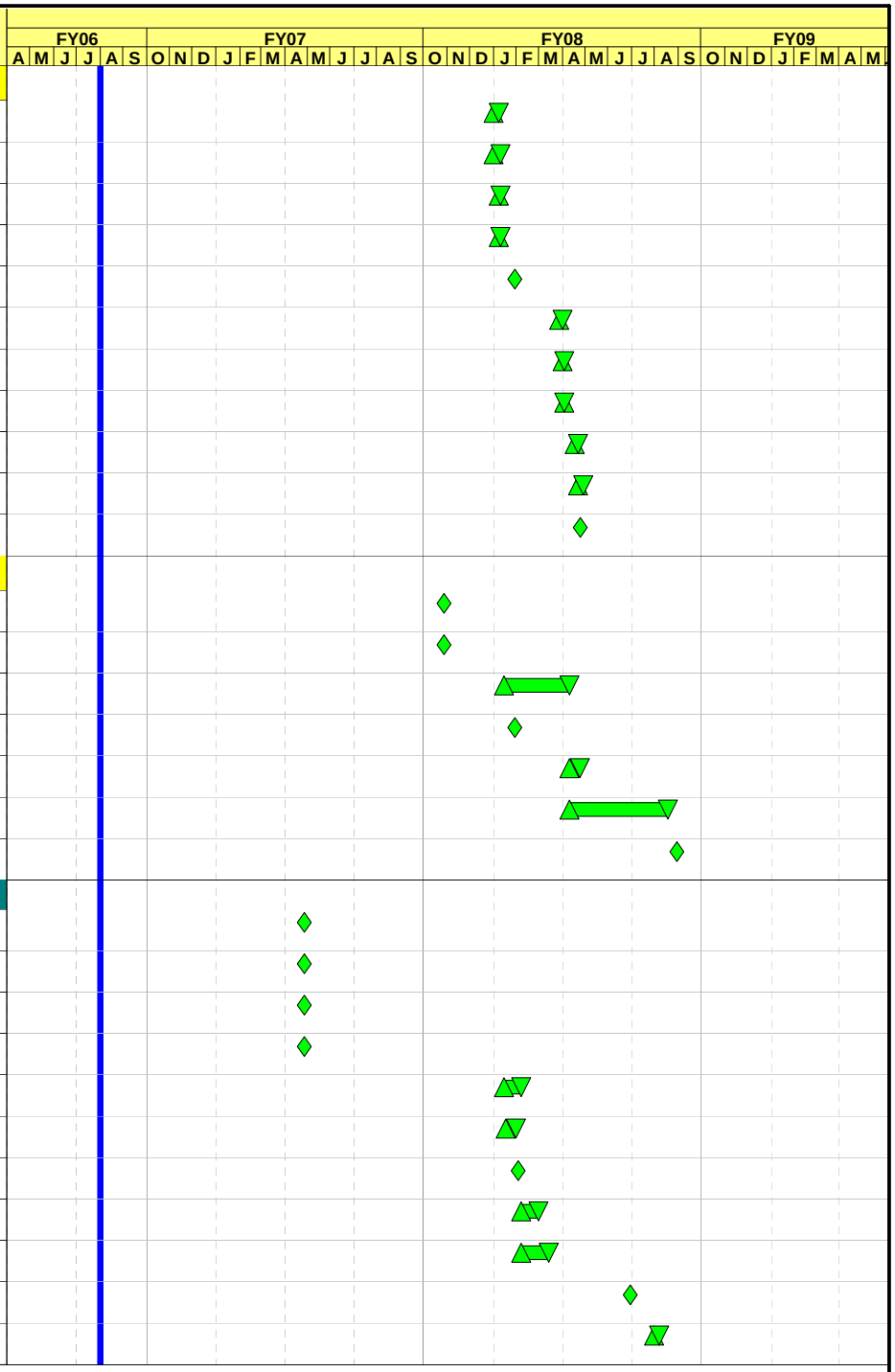
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1.06.06.01 Front End Install				
XE1610590	Wire SXR and HXR stoppers	3	07/03/08	07/08/08
XE1610410	Install HXR stopper collimation	1	07/07/08	07/07/08
XE1610600	Plumb (air and water) stoppers	2	07/09/08	07/10/08
XE1610415	Test SXR/HXR Stoppers	2	07/11/08	07/14/08
XE1610595	Shield penetration tubes (3)	3	07/16/08	07/18/08
XE1610610	COMP: FEE Installation	0		08/21/08
1.06.06.02 Near Hall Install				
XE1620010	REQD: NEH Co-Occupancy	0		11/01/07
XE1620000	REQD: NEH Beneficial Occupancy	0		02/01/08
XE1620410	COMP: NEH Installation	0		12/02/08
1.06.06.02.01 Near Hall Install Global Controls				
XE1620205	REQD: NEH Cables/Racks	0		05/01/07
XE1620254	REQD: NEH MPS	0		05/01/07
XE1620388	REQD: NEH Timing System	0		05/01/07
XE1620398	REQD: NEH Network	0		05/01/07
XE1620256	REQD: NEH User Safeguards	0		09/17/07
XE1620257	Install/Test NEH Occupancy Safeguards	4	11/02/07	11/07/07
XE1620210	Install NEH racks	5	12/11/07	12/17/07
XE1620400	Install/test ethernet network	15	12/11/07	01/04/08
XE1620258	Install NEH MPS, cables	10	12/14/07	01/02/08
XE1620405	COMP: Network Installed in NEH	0		01/04/08
XE1620390	Install/test NEH controls timing system	25	01/07/08	02/11/08
XE1620393	REQD: NEH Laser Timing System	0		04/30/08
XE1620395	Install/test global timing system (LBL)	25	05/01/08	06/05/08
XE1620365	Test/Certify MPS	5	07/31/08	08/06/08
1.06.06.02.02 Near Hall Install Mech/Vac				
XE1620240	Install AMO house air stubs	2	12/11/07	12/12/07
XE1620195	Install NEH cable tray stubs	3	12/11/07	12/13/07
XE1620370	Install NEH cooling water stubs	3	12/11/07	12/13/07
XE1620200	Install NEH N2 purge lines	5	12/11/07	12/17/07
XE1622005	Install vacuum cable plant	5	11/24/08	12/02/08



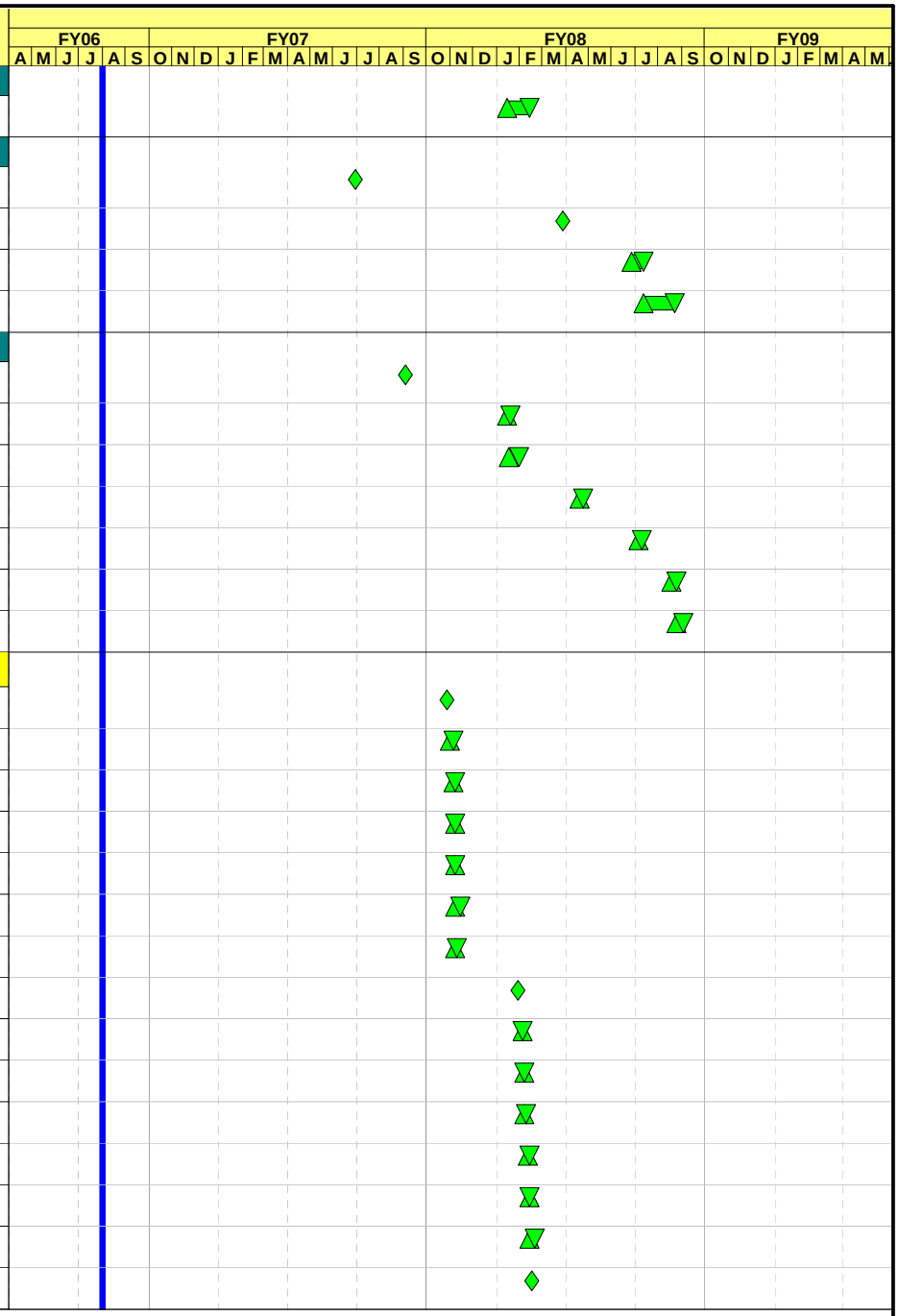
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1.06.06.02.03	**Near Hall Install Laser**			
XE1620042	REQD: Laser Controls System	0		06/18/07
XE1620030	Install Laser Tables & Enclosures	20	01/03/08	01/31/08
XE1620032	Install Laser	20	03/17/08	04/11/08
XE1620038	Install Laser Diagnostics & Optic Transport	20	05/05/08	06/02/08
XE1620283	Install/Test Laser Controls	40	05/19/08	07/15/08
1.06.06.02.05	**Near Hall Install Atomic Physics**			
XE1622020	Install Refocus Optics	10	05/01/08	05/14/08
XE1622010	Install High Field Physics Experiment	20	07/28/08	08/22/08
XE1622030	Install AMO Diagnostic Equipment	10	09/22/08	10/03/08
XE1640300	Install Particle Imaging Experiment	20	10/27/08	11/21/08
1.06.06.02.06	**Near Hall Install PPS System**			
XE1620253	REQD: Controls PPS	0		09/06/07
XE1620270	Mount sliding doors	20	12/11/07	01/11/08
XE1620255	Install NEH BCS BSOIC's, cables, AC	4	12/14/07	12/19/07
XE1620250	Install NEH PPS cables, chassis, lights	10	12/14/07	01/02/08
XE1620280	Test Kirk lock, emergency egress	5	01/14/08	01/18/08
XE1620290	Wire hutch doors	5	01/14/08	01/18/08
XE1620380	Install/wire/plumb Tunnel Stoppers	4	02/04/08	02/07/08
XE1620420	Align Tunnel Stoppers/Collimator	1	02/08/08	02/08/08
XE1620430	Shield penetration tube (NEH-TUN)	1	02/12/08	02/12/08
XE1620230	Shield hutch penetrations	3	04/23/08	04/25/08
XE1620350	Shield beam pipe	3	04/23/08	04/25/08
XE1620360	Test/Certify hutch HPS	5	07/11/08	07/17/08
1.06.06.02.07	**Near Hall Install Laser PPS**			
XE1620279	REQD: Controls Laser PPS	0		05/01/07
XE1620281A	Install Laser PPS Preparation	20	01/03/08	01/31/08
XE1620281	Install Laser PPS Finish	20	06/26/08	07/24/08
XE1620282	Test/Certify Laser PPS	20	07/25/08	08/21/08
XE1620284	AVAIL: XES Laser to AMO Hutch	0		08/21/08
1.06.06.03	**Tunnel Install**			
XE1630010	REQD: Tunnel Co-Occupancy	0		11/01/07
XE1630215	Install Tunnel BCS BSOIC's, cables, AC	3	01/02/08	01/04/08



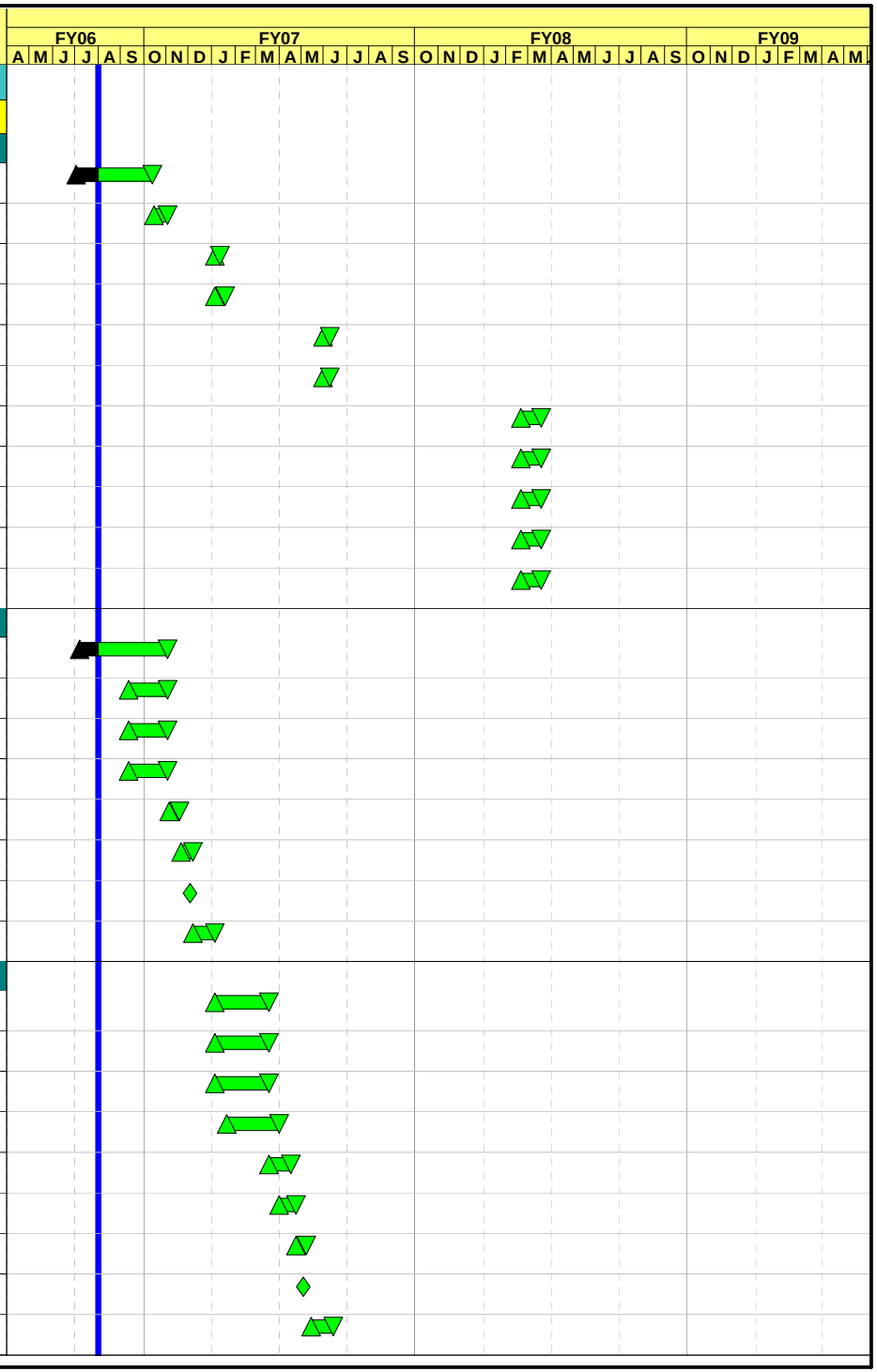
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1.06.06.03 Tunnel Install				
XE1630250	Mount doors (CF?)	5	01/02/08	01/08/08
XE1630210	Install Tunnel PPS cables, chassis, keybank	8	01/02/08	01/11/08
XE1630260	Test Kirk lock, emergency egress	1	01/09/08	01/09/08
XE1630270	Wire Tunnel doors	2	01/09/08	01/10/08
XE1630000	REQD: Tunnel Beneficial Occupancy	0		02/01/08
XE1630120	Install stopper tank	3	03/28/08	04/01/08
XE1630300	Wire Tunnel stoppers	1	04/02/08	04/02/08
XE1630310	Plumb (air & water) stoppers	2	04/03/08	04/04/08
XE1630320	Install penetration shielding	2	04/18/08	04/21/08
XE1630290	Test/Certify Tunnel HPS	5	04/22/08	04/28/08
XE1630330	COMP: Tunnel Installation	0		04/28/08
1.06.06.04 Far Hall Install				
XE1640010	REQD: FEH Co-Occupancy	0		11/01/07
XE1640005	Start Installation in Far Hall	0	11/02/07	
XE1660010	Construct experimental hutches (no budget)	60	01/16/08	04/10/08
XE1640000	REQD: FEH Beneficial Occupancy	0		02/01/08
XE1660020	Install hutch ventilation (no budget)	10	04/11/08	04/24/08
XE1660030	Install hutch experiments (LUSI)	90	04/11/08	08/18/08
XE1640320	COMP: FEH Installation	0		09/02/08
1.06.06.04.01 Far Hall Install Global Controls				
XE1640951	REQD: FEH Cables/Racks	0		05/01/07
XE1640953	REQD: FEH MPS	0		05/01/07
XE1640954	REQD: FEH Network	0		05/01/07
XE1640955	REQD: FEH Timing System	0		05/01/07
XE1640260	Install/test ethernet network	15	01/16/08	02/06/08
XE1640125	Install FEH MPS, cables	10	01/17/08	01/31/08
XE1640265	COMP: Network Installed in FEH	0		02/06/08
XE1640185	Install/test FEH controls timing system	15	02/07/08	02/28/08
XE1640250	Install/test global timing system (LBL)	25	02/07/08	03/13/08
XE1640956	REQD: FEH User Safeguards	0		07/03/08
XE1640127	Test/Certify MPS	5	08/01/08	08/07/08



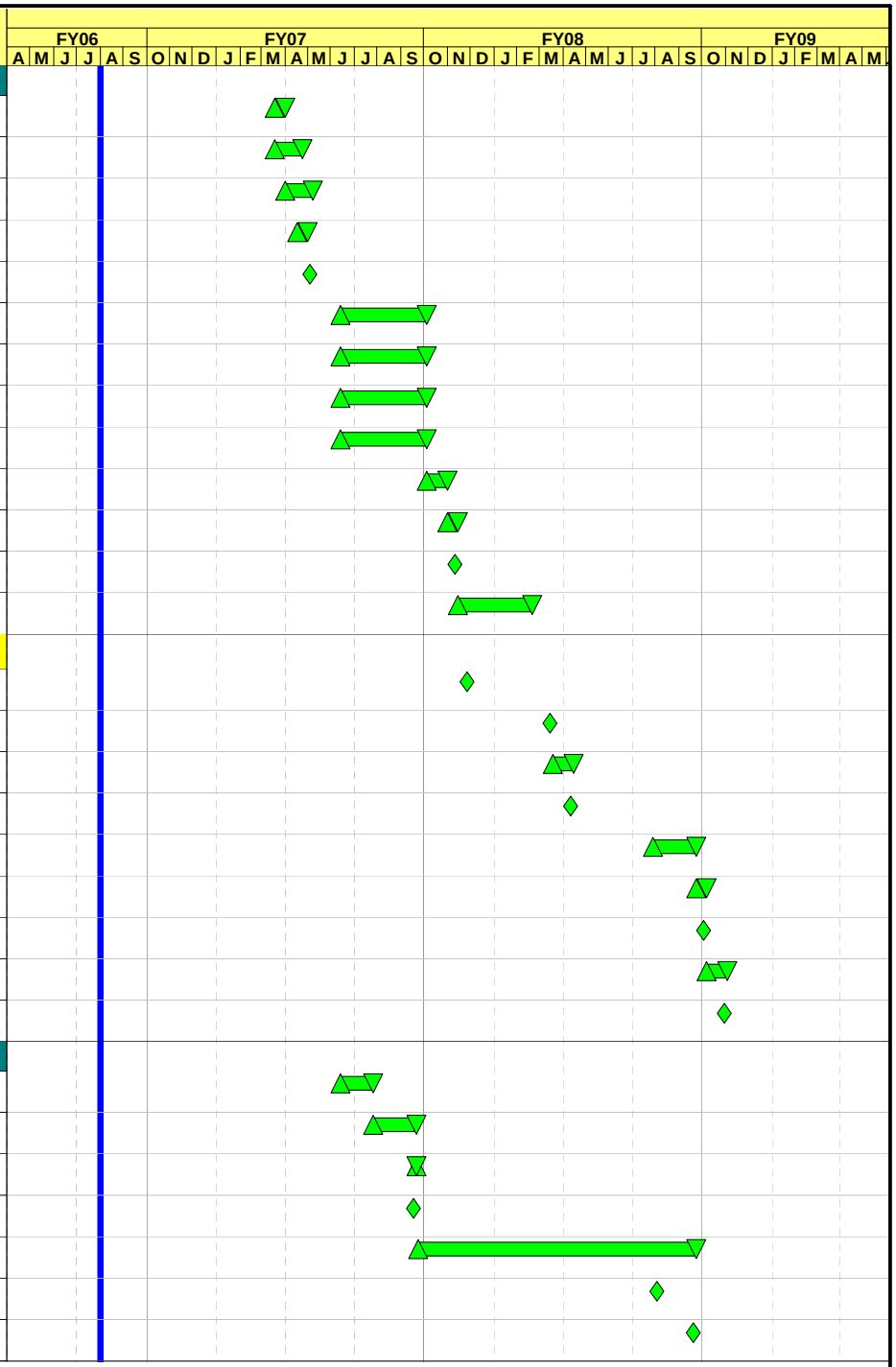
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1.06.06.04.02 Far Hall Install Mech/Vac				
XE1640030	Install AC distribution (CF?)	20	01/16/08	02/13/08
1.06.06.04.04 Far Hall Install Detectors				
XE1644025	REQD: DAQ System (Rel 1)	0		07/02/07
XE1644020	REQD: Detector Control System (Prototype)	0		04/01/08
XE1644000	Ship final Detector to SLAC	10	06/27/08	07/11/08
XE1644010	Install final Detector at SLAC	30	07/14/08	08/22/08
1.06.06.04.05 Far Hall Install PPS System				
XE1640223	REQD: Controls PPS	0		09/06/07
XE1640225	Install FEH BCS BSOIC's, cables, AC	3	01/16/08	01/18/08
XE1640203	Install FEH PPS cables, chassis, lights	10	01/17/08	01/31/08
XE1640230	Shield Vacuum Spools	3	04/21/08	04/23/08
XE1641010	Install/Test FEH Occupancy Safeguards	4	07/07/08	07/10/08
XE1640205	Wire hutch doors	5	08/19/08	08/25/08
XE1640500	Test/Certify FEH hutch HPS	5	08/26/08	09/02/08
1.06.06.05 Electron Dump Enclosure Install				
XE1650010	REQD: Electron Dump Enclosure CO	0		11/01/07
XE1650020	Establish monuments (by 1.04)	3	11/02/07	11/06/07
XE1650030	Mark floor for drilling	1	11/07/07	11/07/07
XE1650040	Install EDE cable tray stubs	1	11/08/07	11/08/07
XE1650060	Install floor anchors	1	11/08/07	11/08/07
XE1650050	Install PPS cable	5	11/08/07	11/14/07
XE1650080	Install support stands	1	11/09/07	11/09/07
XE1650000	REQD: Electron Dump Enclosure BO	0		02/01/08
XE1650090	Install stopper tank/collimator/fast valve	2	02/04/08	02/05/08
XE1650110	Align stopper tank/collimator/fast valve	1	02/07/08	02/07/08
XE1650130	Grout support stands	1	02/08/08	02/08/08
XE1650140	Plumb (air & water) EDE stoppers/fast valve	2	02/11/08	02/12/08
XE1650150	Wire EDE stoppers	2	02/13/08	02/14/08
XE1650155	Test EDE stoppers	2	02/15/08	02/19/08
XE1650160	COMP: EDE Installation	0		02/19/08



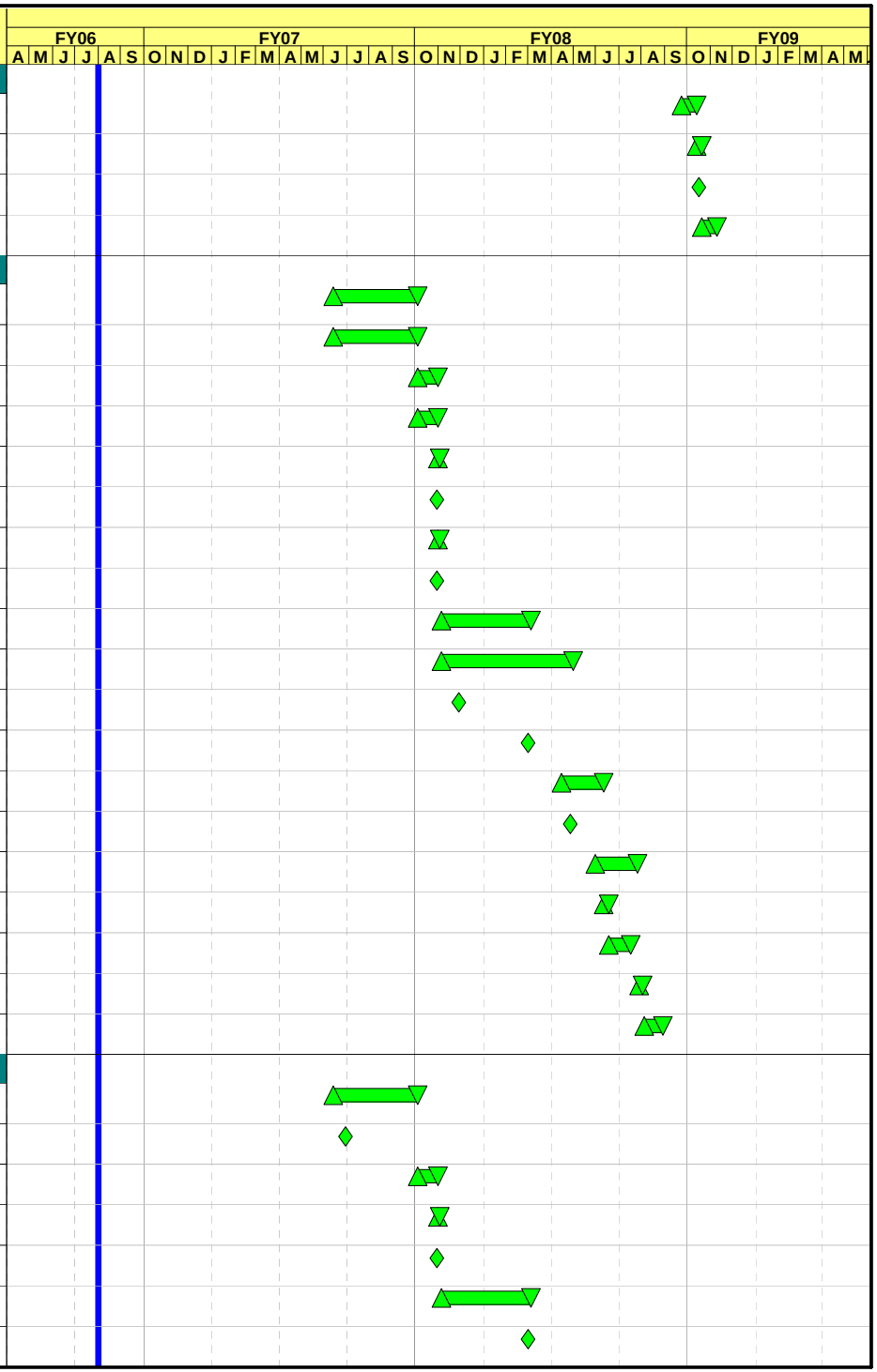
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1.06.07 Atomic Physics				
1.06.07.01 AMO Exp - Management & Design				
1.06.07.01.01 Management				
XE1711071	PRD draft	73*	07/03/06A	10/13/06
XE1711080	PRD reviews and finalization	15	10/16/06	11/03/06
XE1711100	ICD between components	5	01/05/07	01/11/07
XE1711110	ICD to controls	10	01/05/07	01/19/07
XE1711090	ICD to conventional facilities	5	06/01/07*	06/07/07
XE1711120	ICD to LCLS	5	06/01/07*	06/07/07
XE1711170	Plan assembly/installation X1-high field physics	20	02/20/08	03/18/08
XE1711180	Plan assembly/installation of refocus optics	20	02/20/08	03/18/08
XE1711190	Plan assembly/installation of diagnostics	20	02/20/08	03/18/08
XE1711200	Plan assembly/installation X2 - particle imaging	20	02/20/08	03/18/08
XE1711210	Plan commissioning	20	02/20/08	03/18/08
1.06.07.01.02 Conceptual Design				
XE1712010	Conceptual Engr. - X1 High Field Physics	85*	07/07/06A	11/03/06
XE1712020	Conceptual Engr. - Refocus Optics	40	09/11/06*	11/03/06
XE1712030	Conceptual Engr. - Diagnostics	40	09/11/06*	11/03/06
XE1712040	Conceptual Engr. - X2 Particle Imaging	40	09/11/06*	11/03/06
XE1712045	SCR Safety Review	10	11/06/06	11/17/06
XE1712050	Prepare/Hold SCR	10	11/20/06	12/05/06
XE1712055	COMP: System Concept Review Meeting	0		12/05/06
XE1712060	System concept review (SCR)	20	12/06/06	01/04/07
1.06.07.01.03 Preliminary Design				
XE1713020	Preliminary design - Refocus optics	50	01/05/07	03/19/07
XE1713040	Preliminary design - Diagnostics	50	01/05/07	03/19/07
XE1713050	Preliminary design - X2 Particle Imaging	50	01/05/07	03/19/07
XE1713010	Preliminary design - X1 High Field Physics	50	01/22/07	04/02/07
XE1713030	Contract development - Refocus optics	20	03/20/07	04/16/07
XE1713055	PDR Safety Review	15	04/03/07	04/23/07
XE1713060	Prepare/Hold PDR	10	04/24/07	05/07/07
XE1713065	COMP: Preliminary Design Review Meeting	0		05/07/07
XE1713070	Preliminary design review (PDR)	20	05/15/07	06/12/07



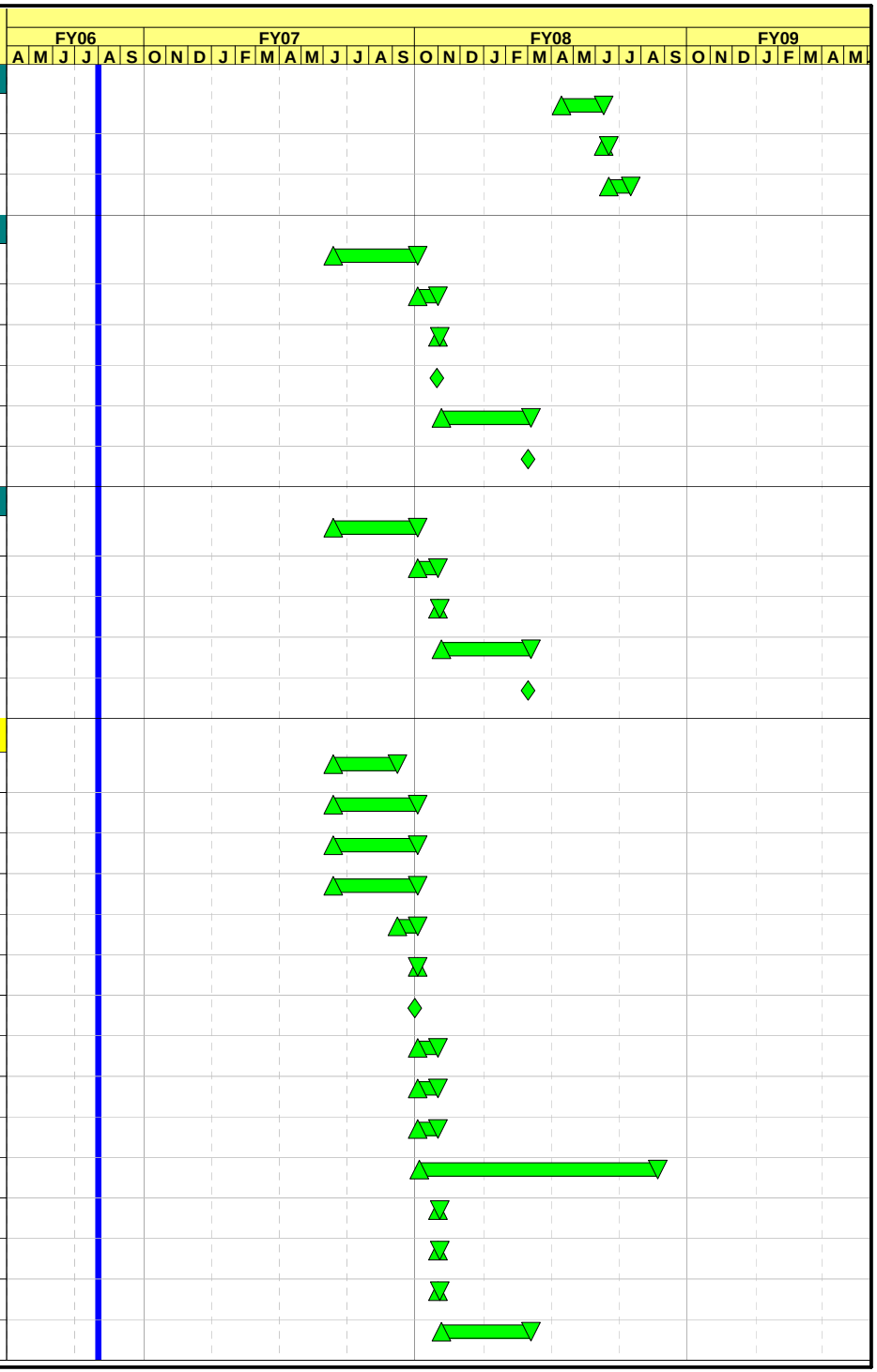
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1.06.07.01.04	**Final Design**			
XE1714050	Specify components - Diagnostics	10	03/20/07	04/02/07
XE1714070	Specify components - X2 Particle Imaging	25	03/20/07	04/23/07
XE1714010	Specify components - X1 High Field Physics	25	04/03/07	05/07/07
XE1714030	Specify components - Refocus optics	10	04/17/07*	04/30/07
XE1714005	AVAIL: Detailed Device Desc/Cnt for Controls	0		05/07/07
XE1714020	Final design - X1 High Field Physics	80	06/13/07	10/04/07
XE1714040	Final design - Refocus optics	80	06/13/07	10/04/07
XE1714060	Final design - Diagnostics	80	06/13/07	10/04/07
XE1714080	Final design - X2 Particle Imaging	80	06/13/07	10/04/07
XE1714085	FDR Safety Review	20	10/05/07	11/01/07
XE1714090	Prepare/Hold FDR	10	11/02/07	11/15/07
XE1714095	COMP: Final Design Review Meeting	0		11/15/07
XE1714100	Final design review (FDR)	60	11/16/07	02/19/08
1.06.07.02	**AMO Exp - High Field Physics**			
XE1720518	REQD: Controls Vac & Mech Exp 1	0		11/30/07
XE1720495	Ready for Installation in Near Hall	0		03/18/08
XE1720498	Assemble - X1 Vacuum/Mechanical	10	03/19/08	04/15/08
XE1720505	AMO Mech/Vac Installation Complete	0		04/15/08
XE1720500	Assemble - X1 High Field Physics	40	07/28/08	09/22/08
XE1720510	Readiness/Safety Review - X1 High Field Physics	10	09/23/08	10/06/08
XE1720515	COMP: Readiness/Safety Review Mtg-X1 Hi Fld Phy	0		10/06/08
XE1720520	Testing - X1 High Field Physics	20	10/07/08	11/03/08
XE1720525	AMO Experimental Control Complete	0		11/03/08
1.06.07.02.01	**X-Ray Fluorescence Detector**			
XE1721010	Bid/Evaluate/RFP - X-Ray Fluor. Detector	80	06/13/07	07/25/07
XE1721020	Prepare PO - X-Ray Fluor. Detector	40	07/26/07	09/20/07
XE1721030	AWARD: X-Ray Fluor. Detector	1	09/21/07	09/21/07
XE1721035	COMP: Award of X-Ray Fluor. Detector	0		09/21/07
XE1721040	Fab/Deliver - X-Ray Fluor. Detector	250	09/24/07	09/22/08
XE1721078	REQD: Controls X-Ray Fluorescence Detector	0		08/07/08
XE1721050	RCV: X-Ray Fluor. Detector	0		09/22/08



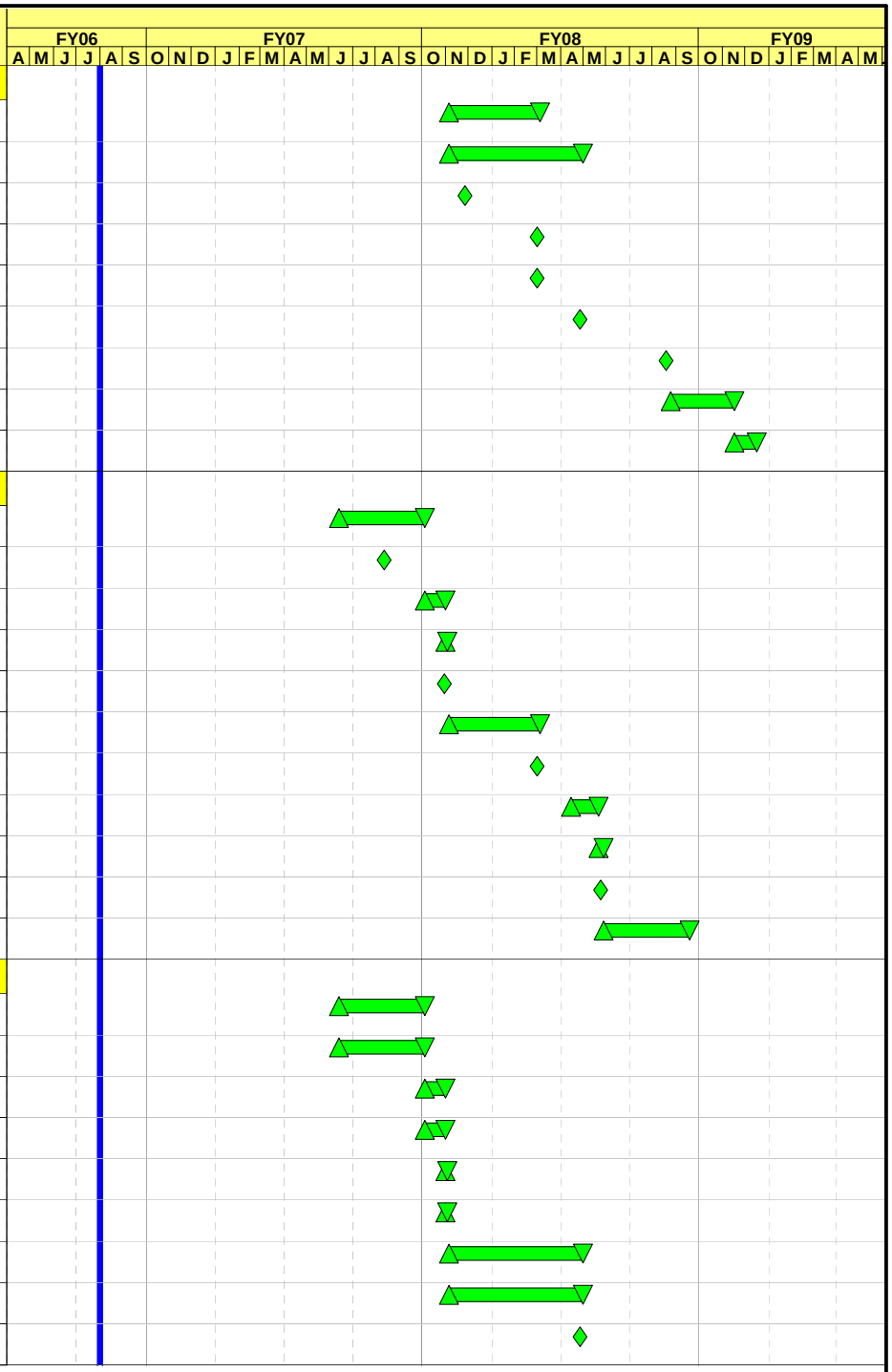
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1.06.07.02.01 X-Ray Fluorescence Detector				
XE1721060	Assemble - X-Ray Fluor. Detector	15	09/23/08	10/13/08
XE1721070	Readiness/Safety Review - X-Ray Fluor. Detector	5	10/14/08	10/20/08
XE1721075	COMP: X-Ray Fluor. Detector Readiness/Safety Rev	0		10/20/08
XE1721080	Testing - X-Ray Fluor. Detector	15	10/21/08	11/10/08
1.06.07.02.02 Ion Imaging & Electron TOF Detectors				
XE1722010	Bid/Evaluate/RFP - Elect. TOF Detector	80	06/13/07	10/04/07
XE1722060	Bid/Evaluate/RFP - Ion Imaging Detector	80	06/13/07	10/04/07
XE1722020	Prepare PO - Elect. TOF Detector	20	10/05/07	11/01/07
XE1722070	Prepare PO - Ion Imaging Detector	20	10/05/07	11/01/07
XE1722030	AWARD: Elect. TOF Detector	1	11/02/07	11/02/07
XE1722035	COMP: Award Elect. TOF Detector	0		11/02/07
XE1722080	AWARD: Ion Imaging Detector	1	11/02/07	11/02/07
XE1722085	COMP: Award Ion Imaging Detector	0		11/02/07
XE1722040	Fab/Deliver - Elect. TOF Detector	80	11/05/07	03/05/08
XE1722090	Fab/Deliver - Ion Imaging Detector	120	11/05/07	04/30/08
XE1722568	REQD: Controls Ion Imaging & Electron TOF Detect	0		12/03/07
XE1722050	RCV: Elect. TOF Detector	0		03/05/08
XE1722500	Assemble - TOF Detector	40	04/16/08	06/11/08
XE1722100	RCV: Ion Imaging Detector	0		04/30/08
XE1722550	Assemble - Ion Imaging Detector	40	05/30/08	07/25/08
XE1722510	Readiness/Safety Review - TOF Detector	5	06/12/08	06/18/08
XE1722520	Testing - TOF Detector	20	06/19/08	07/17/08
XE1722560	Readiness/Safety Review - Ion Imaging Detector	5	07/28/08	08/01/08
XE1722570	Testing - Ion Imaging Detector	20	08/04/08	08/29/08
1.06.07.02.03 Sample Source				
XE1723010	Bid/Evaluate/RFP - X1 Sample Source	80	06/13/07	10/04/07
XE1723518	REQD: Controls Sample Source	0		07/03/07
XE1723020	Prepare PO - X1 Sample Source	20	10/05/07	11/01/07
XE1723030	AWARD: X1 Sample Source	1	11/02/07	11/02/07
XE1723035	COMP: Award X1 Sample Source	0		11/02/07
XE1723040	Fab/Deliver - X1 Sample Source	80	11/05/07	03/05/08
XE1723050	RCV: X1 Sample Source	0		03/05/08



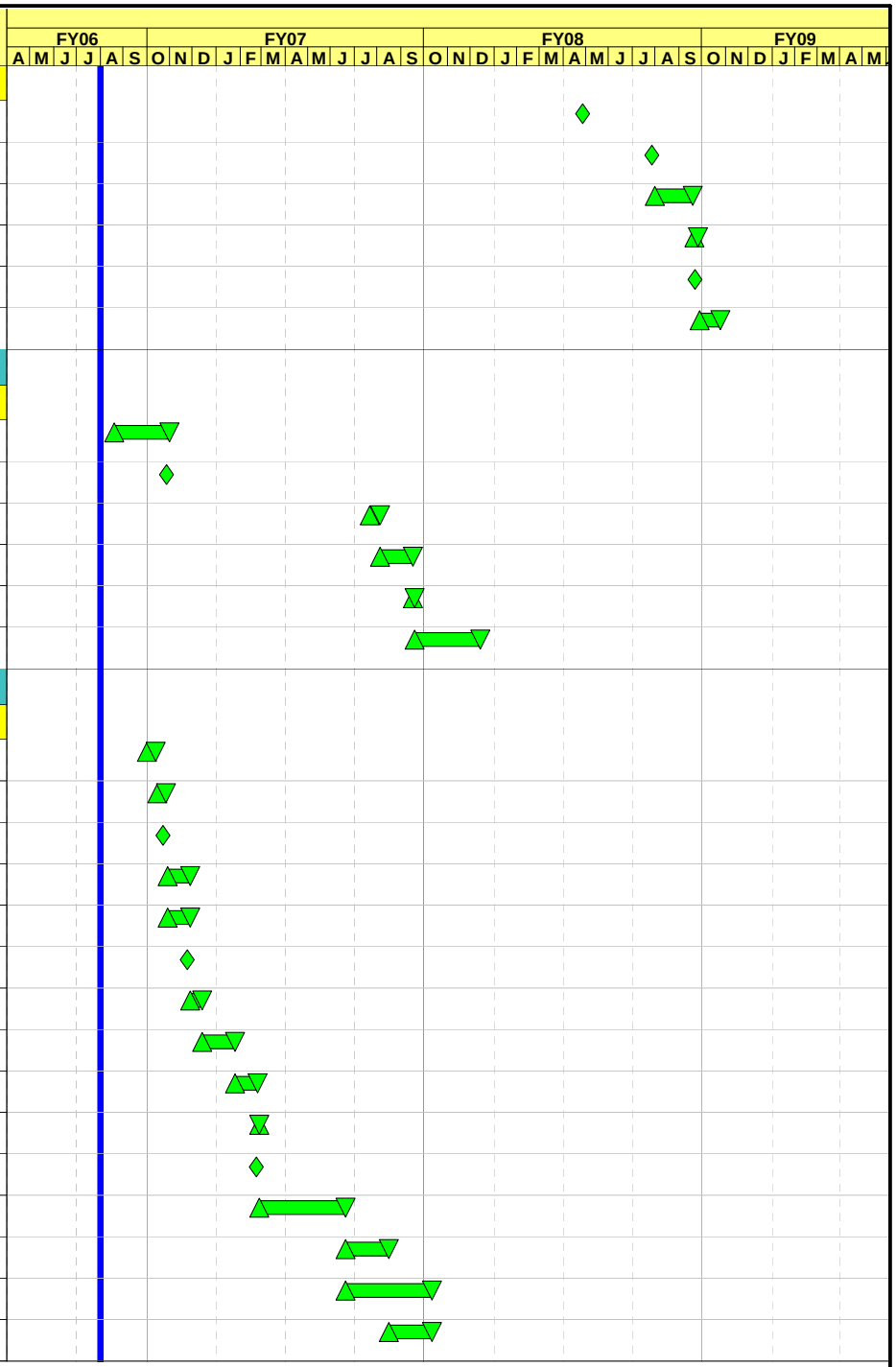
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1.06.07.02.03 Sample Source				
XE1723500	Assemble - X1 Sample Source	40	04/16/08	06/11/08
XE1723510	Readiness/Safety Review - X1 Sample Source	5	06/12/08	06/18/08
XE1723520	Testing - X1 Sample Source	20	06/19/08	07/17/08
1.06.07.02.04 Vacuum System				
XE1724010	Bid/Evaluate/RFP - X1 Vacuum System	80	06/13/07	10/04/07
XE1724020	Prepare PO - X1 Vacuum System	20	10/05/07	11/01/07
XE1724030	AWARD: X1 Vacuum System	1	11/02/07	11/02/07
XE1724035	COMP: Award X1 Vacuum System	0		11/02/07
XE1724040	Fab/Deliver - X1 Vacuum System	80	11/05/07	03/05/08
XE1724050	RCV: X1 Vacuum System	0		03/05/08
1.06.07.02.05 Differential Pumping				
XE1725010	Bid/Evaluate/RFP - Differential Pumping	80	06/13/07	10/04/07
XE1725020	Prepare POs - Differential Pumping	20	10/05/07	11/01/07
XE1725030	AWARD: Differential Pumping	1	11/02/07	11/02/07
XE1725040	Fab/Deliver - Differential Pumping	80	11/05/07	03/05/08
XE1725050	RCV: Differential Pumping	0		03/05/08
1.06.07.03 AMO Exp - Refocus Optics				
XE1730010	Bid/Evaluate/RFP - Optics Assembly	60	06/13/07	09/06/07
XE1730060	Bid/Evaluate/RFP - Optics Chamber	80	06/13/07	10/04/07
XE1730110	Bid/Evaluate/RFP - Focus Verification	80	06/13/07	10/04/07
XE1730160	Bid/Evaluate/RFP - RO Stand	80	06/13/07	10/04/07
XE1730020	Prepare PO - Optics Assembly	20	09/07/07	10/04/07
XE1730030	AWARD: Optics Assembly	1	10/05/07	10/05/07
XE1730035	COMP: Award Optics Assembly	0		10/05/07
XE1730070	Prepare PO - Optics Chamber	20	10/05/07	11/01/07
XE1730120	Prepare PO - Focus Verification	20	10/05/07	11/01/07
XE1730170	Prepare PO - RO Stand	20	10/05/07	11/01/07
XE1730040	Fab/Deliver - Optics Assembly	220	10/08/07	08/22/08
XE1730080	AWARD: Optics Chamber	1	11/02/07	11/02/07
XE1730130	AWARD: Focus Verification	1	11/02/07	11/02/07
XE1730180	AWARD: RO Stand	1	11/02/07	11/02/07
XE1730140	Fab/Deliver - Focus Verification	80	11/05/07	03/05/08



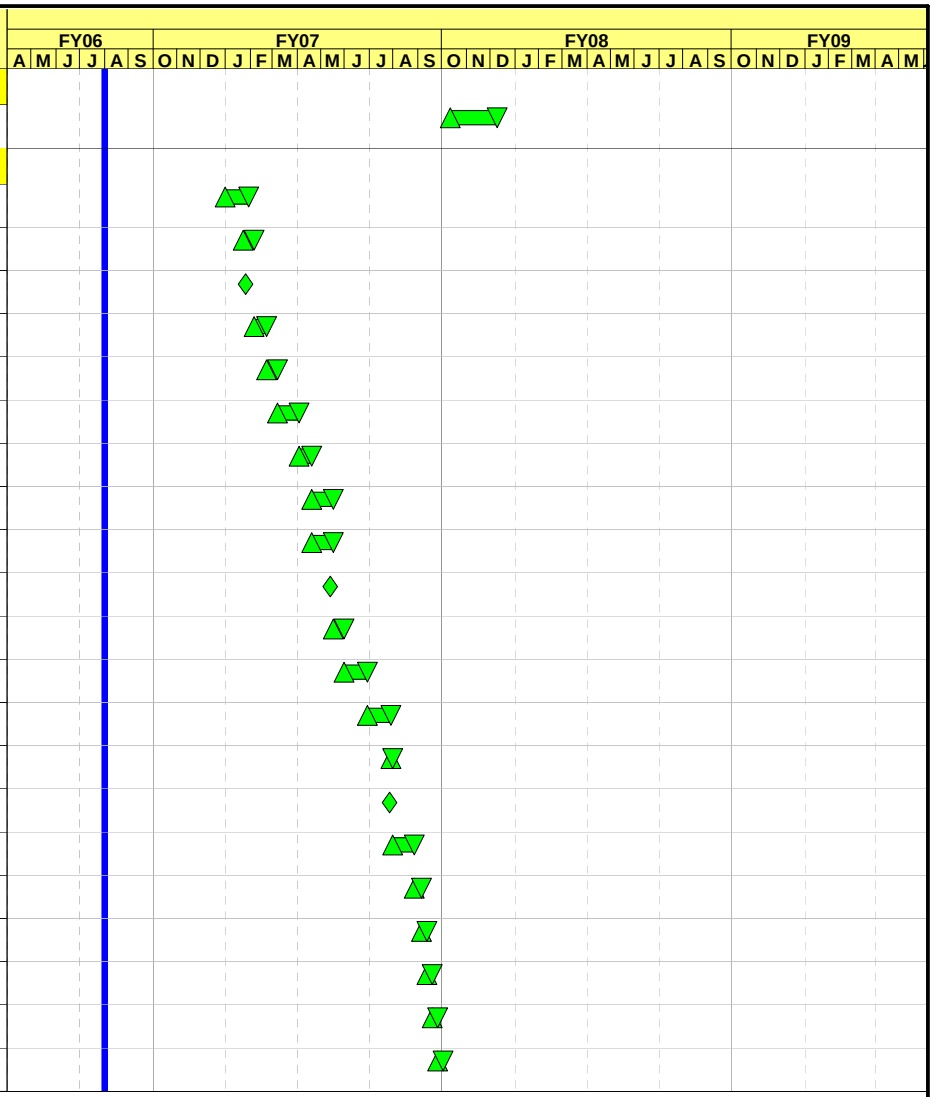
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1.06.07.03 AMO Exp - Refocus Optics				
XE1730190	Fab/Deliver - RO Stand	80	11/05/07	03/05/08
XE1730090	Fab/Deliver - Optics Chamber	120	11/05/07	04/30/08
XE1730498	REQD: Controls Refocus Optics	0		11/30/07
XE1730150	RCV: Focus Verification	0		03/05/08
XE1730200	RCV: RO Stand	0		03/05/08
XE1730100	RCV: Optics Chamber	0		04/30/08
XE1730050	RCV: Optics Assembly	0		08/22/08
XE1730055	Optics Metrology	60	08/25/08	11/17/08
XE1730500	Assemble - Refocus Optics	20	11/18/08	12/17/08
1.06.07.04 AMO Exp - Diagnostics				
XE1740060	Bid/Evaluate/RFP - Diagnostic Equipment	80	06/13/07	10/04/07
XE1740518	REQD: Controls Diagnostics	0		08/15/07
XE1740070	Prepare PO - Diagnostic Equipment	20	10/05/07	11/01/07
XE1740080	AWARD: Diagnostic Equipment	1	11/02/07	11/02/07
XE1740085	COMP: Award Diagnostic Equipment	0		11/02/07
XE1740090	Fab/Deliver - Diagnostic Equipment	80	11/05/07	03/05/08
XE1740100	RCV: Diagnostic Equipment	0		03/05/08
XE1740500	Assemble - Diagnostic Equipment	25	04/16/08	05/20/08
XE1740510	Readiness/Safety Review - Diagnostic Equipment	5	05/21/08	05/28/08
XE1740515	COMP: Readiness/Safety Review Mtg - Diag Equip	0		05/28/08
XE1740520	Testing - Diagnostic Equipment	80	05/29/08	09/19/08
1.06.07.05 AMO Exp - Particle Imaging				
XE1750010	Bid/Evaluate/RFP -X2 Large Area Detector Support	80	06/13/07	10/04/07
XE1750060	Bid/Evaluate/RFP - X2 Vacuum Equipment Support	80	06/13/07	10/04/07
XE1750020	Prepare PO - X2 Large Area Detector Support	20	10/05/07	11/01/07
XE1750070	Prepare PO - X2 Vacuum Equipment	20	10/05/07	11/01/07
XE1750030	AWARD: X2 Large Area Detector	1	11/02/07	11/02/07
XE1750080	AWARD: X2 Vacuum Equipment	1	11/02/07	11/02/07
XE1750040	Fab/Deliver - X2 Large Area Detector Support	120	11/05/07	04/30/08
XE1750090	Fab/Deliver - X2 Vacuum Equipment	120	11/05/07	04/30/08
XE1750050	RCV: X2 Large Area Detector Support	0		04/30/08



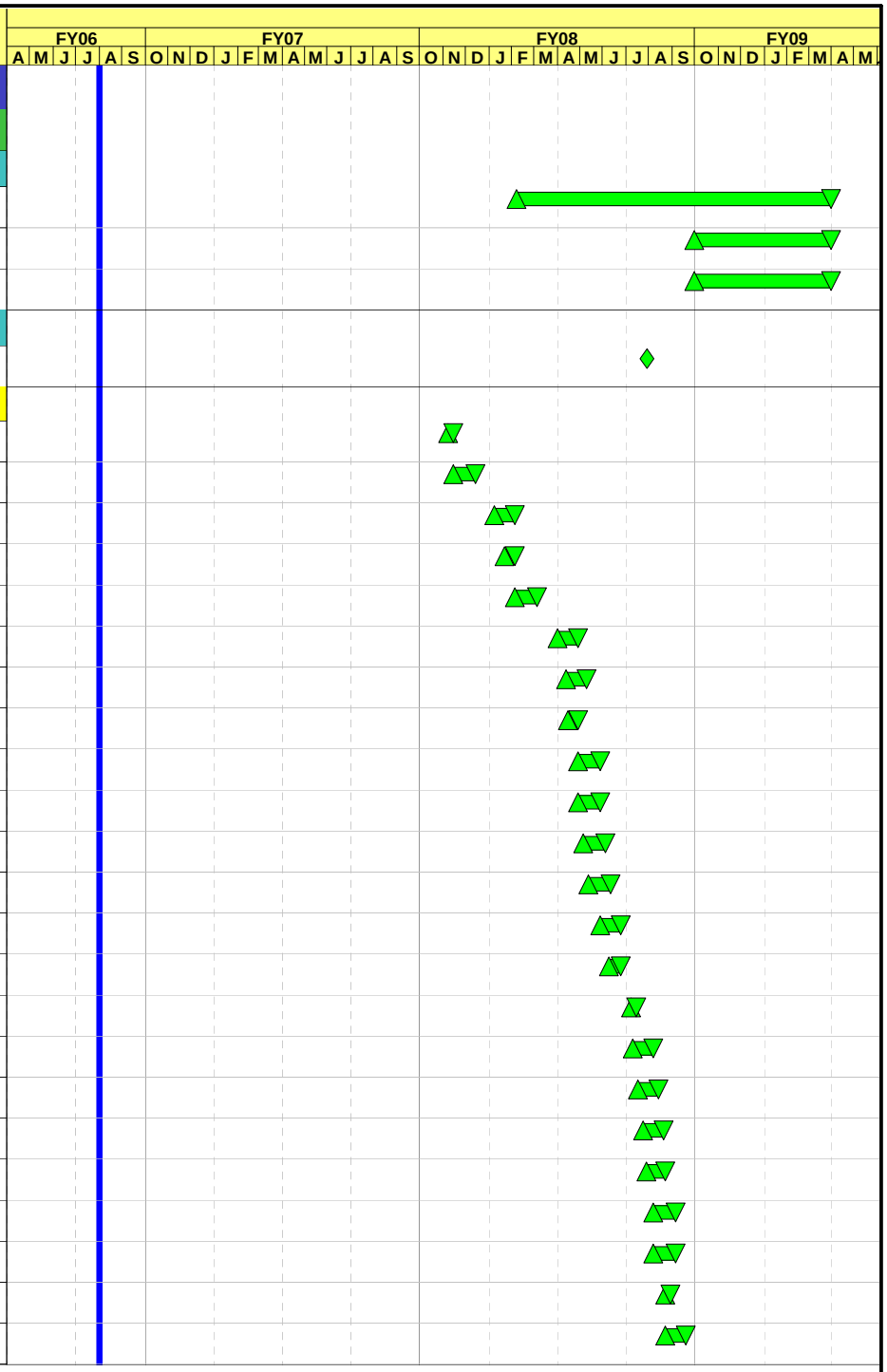
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1.06.07.05 AMO Exp - Particle Imaging				
XE1750100	RCV: X2 Vacuum Equipment	0		04/30/08
XE1750518	REQD: Controls Particle Imaging Exp 2	0		07/31/08
XE1750500	Assemble - X2 Particle Imaging	35	08/01/08*	09/19/08
XE1750510	Readiness/Safety Review - X2 Particle Imaging	5	09/22/08*	09/26/08
XE1750515	COMP: Readiness/Safety Review Mtg-X2 Partcl Imag	0		09/26/08
XE1750520	Testing - X2 Particle Imaging	20	09/29/08	10/24/08
1.06.08 K Measurement Spectrometer				
1.06.08.01 K Measurement Spectrometer				
XE1810010	Prepare PRD - K Meas.	51	08/21/06*	10/31/06
XE1810020	COMP: PRD - K Meas.	0		10/31/06
XE1810160	Prepare Bid Docs - Si Crystal (2)	10	07/23/07	08/03/07
XE1810170	Bid and Award - Si Crystal (2)	30	08/06/07	09/17/07
XE1810180	AWARD: Si Crystal (2)	1	09/18/07	09/18/07
XE1810190	Fab and Deliver - Si Crystal (2)	60	09/19/07	12/13/07
1.06.09 Mechanical Systems				
1.06.09.01 PPS Stoppers				
XE1920010	Prepare PRD - PPS Beam Stop Hardware	10	10/02/06*	10/13/06
XE1920020	PRD Review - PPS Beam Stop Hardware	10	10/16/06	10/27/06
XE1920030	COMP: PRD Review - PPS Beam Stop Hardware	0		10/27/06
XE1920070	Prepare Final Design - PPS Beam Stop Hardware	20	10/30/06	11/28/06
XE1920090	Prepare for Safety Review - PPS Beam Stop Hardwa	20	10/30/06	11/28/06
XE1920075	Ready for FDR - PPS Beam Stop Hardware	0		11/28/06
XE1920080	Final Design Review - PPS Beam Stop Hardware	10	11/29/06	12/12/06
XE1920100	Prep Bid Pkg - PPS Beam Stop Hardware	20	12/13/06	01/25/07
XE1920110	Bid Process - PPS Beam Stop Hardware	20	01/26/07	02/23/07
XE1920120	AWARD: - PPS Beam Stop Hardware	1	02/26/07	02/26/07
XE1920130	COMP: AWARD: - PPS Beam Stop Hardware	0		02/26/07
XE1920140	Vendor Fab/Ship - PPS Stoppers	80	02/27/07	06/19/07
XE1920220	Assemble EDE - PPS Beam Stop Hardware	40	06/20/07	08/15/07
XE1920180	Assemble FEE - PPS Beam Stop Hardware (2)	80	06/20/07	10/11/07
XE1920190	Assemble NH - PPS Beam Stop Hardware	40	08/16/07	10/11/07



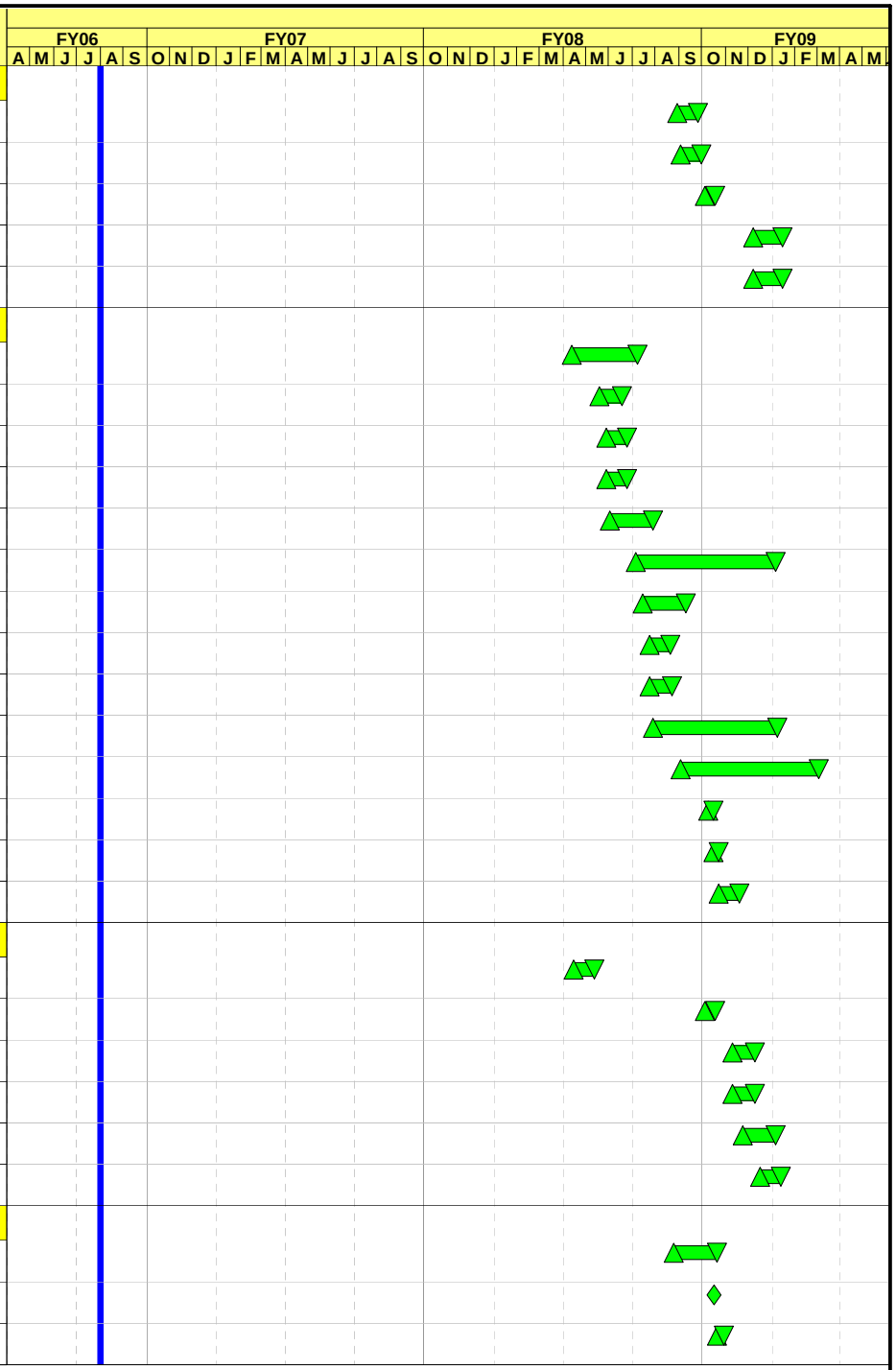
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
1.06.09.01 PPS Stoppers				
XE1920200	Assemble Tunnel - PPS Beam Stop Hardware	40	10/12/07	12/10/07
1.06.09.02 PPS Shielding				
XE1922020	Develop RP Reqmnts - PPS Shielding & Supports	20	01/02/07*	01/30/07
XE1922010	Prepare Specification - PPS Shielding & Supports	10	01/24/07	02/06/07
XE1922025	COMP: RP Reqmnts - PPS Shielding & Supports	0		01/30/07
XE1922030	Prepare Conceptual Design - PPS Shielding & Supp	10	02/07/07	02/21/07
XE1922040	Conceptual Design Review - PPS Shielding & Supp	10	02/22/07	03/07/07
XE1922050	Prepare Preliminary Design - PPS Shielding/Supp	20	03/08/07	04/04/07
XE1922060	Preliminary Design Review - PPS Shielding/Supp	10	04/05/07	04/18/07
XE1922070	Prepare Final Design - PPS Shielding & Supports	20	04/19/07	05/16/07
XE1922080	Prepare for Safety/RP Review - Shielding & Suppt	20	04/19/07	05/16/07
XE1922075	Ready for FDR - PPS Shielding & Supports	0		05/16/07
XE1922090	Final Design Review - PPS Shielding & Supports	10	05/17/07	05/31/07
XE1922100	Prep Bid Pkg - PPS Shielding & Supports	20	06/01/07	06/28/07
XE1922110	Bid Process - PPS Shielding & Supports	20	06/29/07	07/27/07
XE1922120	AWARD: - PPS Shielding & Supports	1	07/30/07	07/30/07
XE1922125	COMP: AWARD: - PPS Shielding & Supports	0		07/30/07
XE1922130	Deliver/Ship - PPS Shielding & Supports	20	07/31/07	08/27/07
XE1922150	Fab/Assemble EDE - PPS Shielding & Supports	5	08/28/07	09/04/07
XE1922160	Fab/Assemble FEE - PPS Shielding & Supports	5	09/05/07	09/11/07
XE1922170	Fab/Assemble NH - PPS Shielding & Supports	5	09/12/07	09/18/07
XE1922180	Fab/Assemble Tunnel - PPS Shielding & Supports	5	09/19/07	09/25/07
XE1922190	Fab/Assemble FH - PPS Shielding & Supports	5	09/26/07	10/02/07



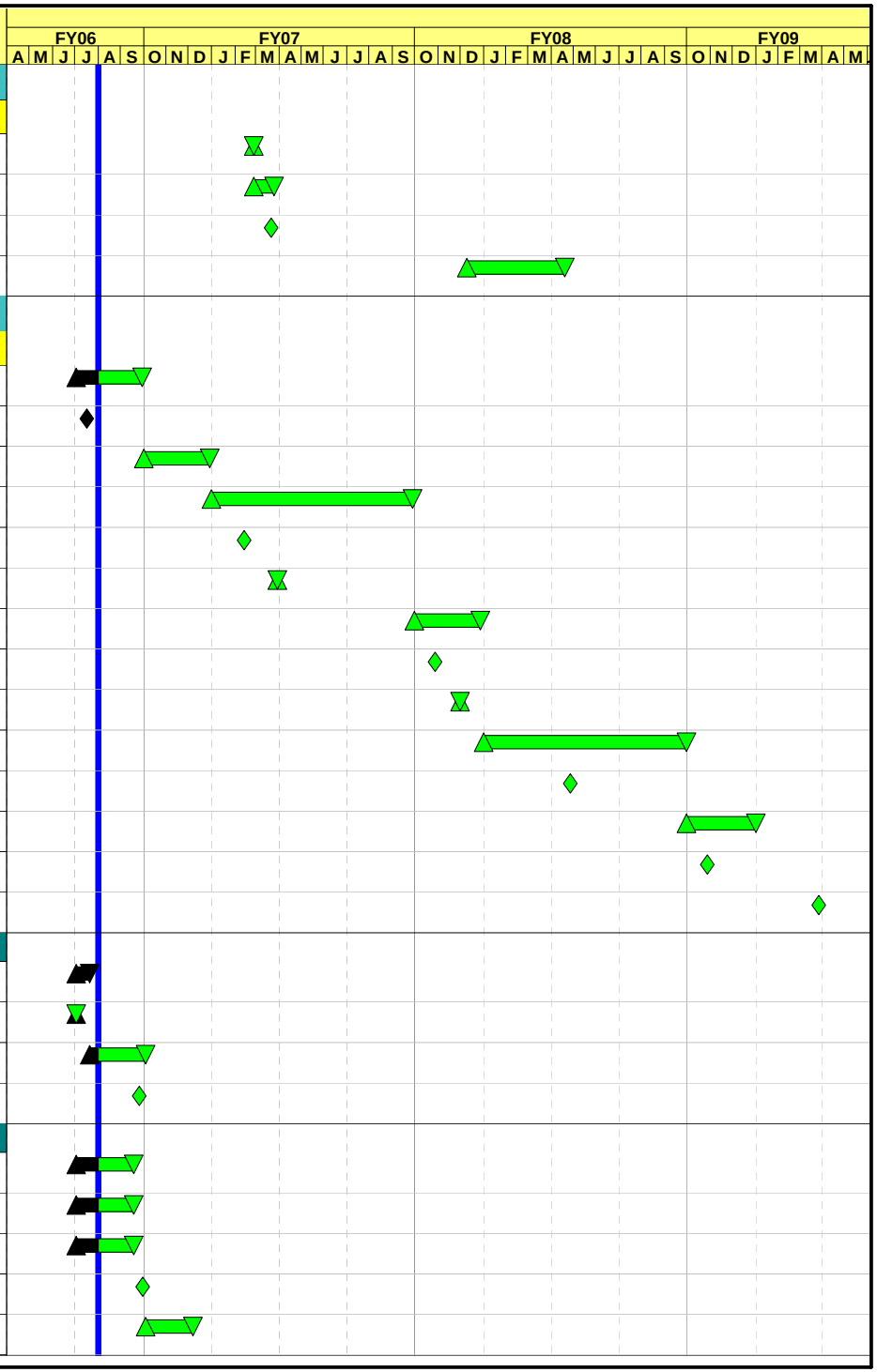
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
2 LCLS PROJECT - R&D, SPARES, COMMISSIONING				
2.06 X-RAY END STATION SYSTEMS (OPC)				
2.06.01 XE System Mgmt & Integration				
XEOPS_0000	X-Ray End Stations Pre-Operations	283	02/08/08*	03/31/09
XE_036	Management & Oversight - FY09	119	10/01/08	03/31/09
XE_0491	Travel FY-09	119	10/01/08	03/31/09
2.06.03 Commissioning				
XE27330035	Start XES Commissioning	0		08/01/08
2.06.03.01 Commissioning - Controls				
XE_923	Test Near Hall - User Safeguards	5	11/08/07*	11/14/07
XE_934	Commission Near Hall - User Safeguards	20	11/15/07	12/14/07
XE_5421	Commission Far Hall - Laser PPS	20	01/08/08*	02/05/08
XE_0341	Test Near Hall - Cabling	10	01/22/08*	02/04/08
XE_0461	Commission Near Hall - Cabling	20	02/05/08	03/04/08
XE_7040	Integrate with Controls	20	04/01/08*	04/28/08
XE_2635	Commission - Beamline Control	20	04/14/08*	05/09/08
XE_2280	Test Near Hall - PC Support	10	04/15/08*	04/28/08
XE_463	Commission Tunnel - X-Ray PPS	20	04/29/08*	05/27/08
XE_5101	Commission Tunnel - X-Ray MPS	20	04/29/08*	05/27/08
XE_108	Commission FEE - X-Ray PPS	20	05/06/08*	06/03/08
XE_0291	Commission Tunnel - Cabling	20	05/13/08*	06/10/08
XE_0451	Commission FEE - Cabling	20	05/28/08*	06/24/08
XE_2224	Test Near Hall - Network	10	06/10/08*	06/23/08
XE_2227	Test Tunnel - Network	5	07/09/08*	07/15/08
XE_884	Commission Far Hall - User Safeguards	20	07/11/08*	08/07/08
XE_3033	Commission Near Hall - X-Ray PPS	20	07/18/08	08/14/08
XE_2294	Commission - PC Support	20	07/24/08*	08/20/08
XE_0241	Commission Far Hall - Cabling	20	07/28/08*	08/22/08
XE_5097	Commission Near Hall - X-Ray MPS	20	08/07/08*	09/04/08
XE_5125	Commission Far Hall - X-Ray MPS	20	08/08/08*	09/05/08
XE_2723	Test Near Hall - Laser PPS	5	08/22/08*	08/28/08
XE_5132	Commission FEE - X-Ray MPS	20	08/22/08*	09/19/08



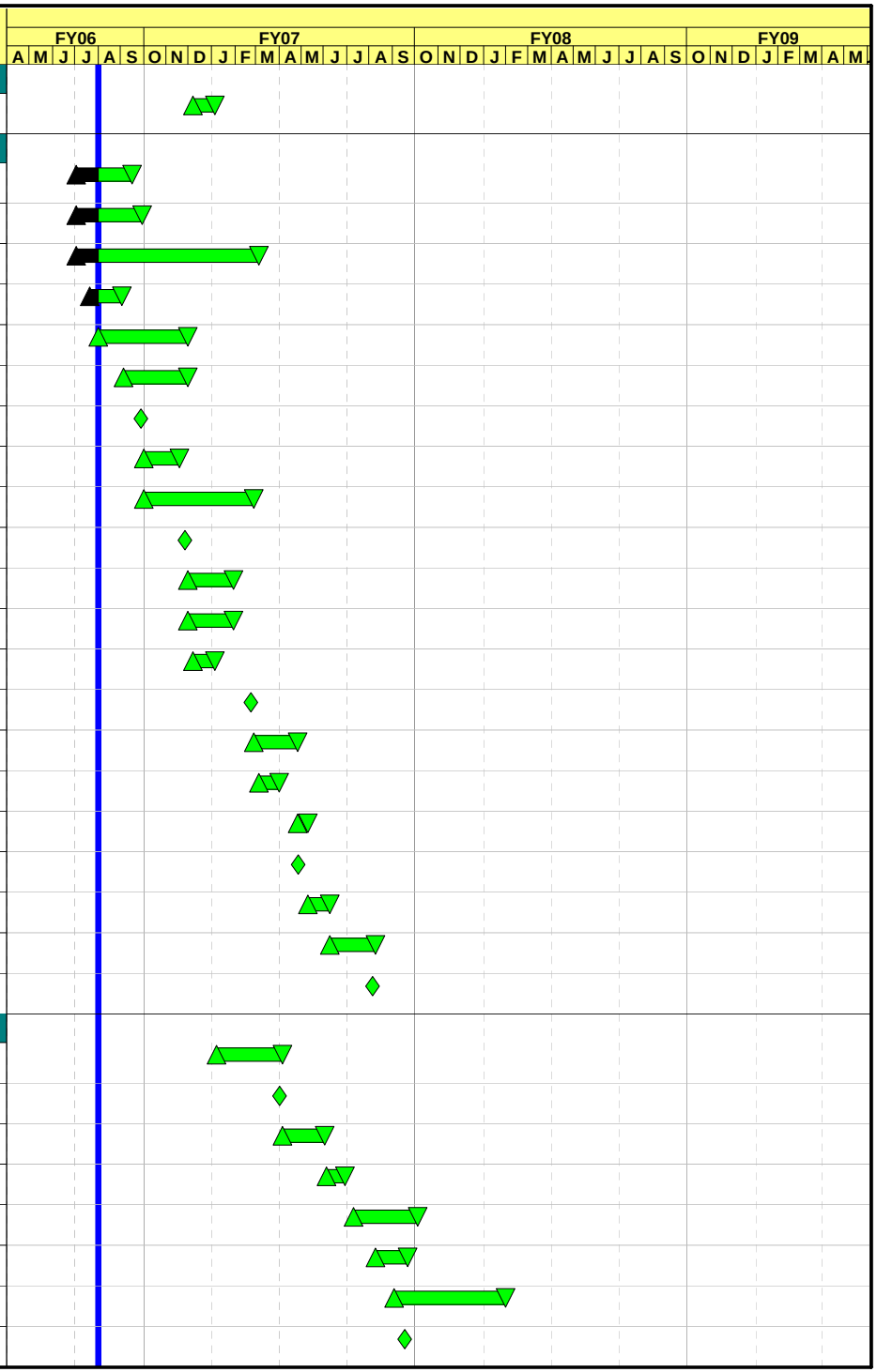
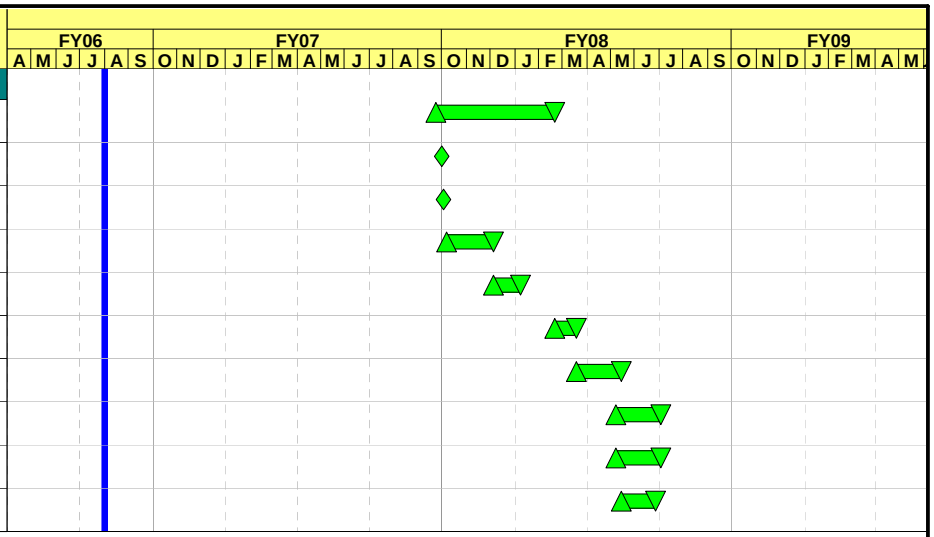
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
2.06.03.01 Commissioning - Controls				
XE_2734	Commission Near Hall - Laser PPS	20	08/29/08	09/26/08
XE_458	Commission Far Hall X-Ray PPS	20	09/03/08*	09/30/08
XE_2624	Test Near Hall - Beamline Control	10	10/06/08*	10/17/08
XE_2234	Commission - Network	20	12/08/08*	01/15/09
XE_4404	Commission - Network	20	12/08/08*	01/15/09
2.06.03.02 Commissioning - XES Laser				
XE_56	Commission - Laser Diagnostics	60	04/14/08*	07/08/08
XE_2986	Commission Turbo Pump - Vacuum	20	05/20/08*	06/17/08
XE_2978	Commission Ion Pump - Vacuum	20	05/28/08*	06/24/08
XE_2818	Commission Valves - Vacuum	20	05/29/08*	06/25/08
XE1620039	Integrate/Test Diagnostics & Optic Transport	40	06/03/08	07/29/08
XE_59	Commission Near Hall - Laser Amplifiers	120	07/07/08*	01/06/09
XE1620034	Integrate/Test Laser	40	07/16/08	09/10/08
XE_828	Commission Gauges - Vacuum	20	07/24/08*	08/20/08
XE_57	Commission - Optic Transport	20	07/25/08*	08/21/08
XE2410010	Commission - Laser/Diagnostics/Optical Transport	105	07/30/08	01/08/09
XE_58	Commission Far Hall - Laser Timing	120	09/03/08*	03/04/09
XE_712	Final Check Near Hall - Oscillator Laser/Pump	5	10/09/08*	10/15/08
XE_700	Test Near Hall - Oscillator Laser/Pum	5	10/16/08*	10/22/08
XE_7144	Commission Near Hall - Oscillator Laser/Pump	20	10/23/08	11/19/08
2.06.03.03 Commissioning - AMO Exp.				
XE_2979	Commission Far Hall Experiment Chamber - Vacuum	20	04/15/08*	05/12/08
XE27330030	Commission Diagnostic Equipment	10	10/06/08*	10/17/08
XE27330010	Commission X1 - High Field Physics Experiment	20	11/11/08	12/10/08
XE_5313	Commission Near Hall Experiment Chamber - Vacuum	20	11/11/08	12/10/08
XE27330040	Commission X2 Particle Imaging Experiment	20	11/24/08	01/05/09
XE27330020	Commission Refocus Optics	10	12/18/08	01/13/09
2.06.03.05 Commissioning - 2D X-Ray Detector				
XE1644030	Final Acceptance Test of final Detector @SLAC	40	08/25/08	10/20/08
XE1644040	COMP: Acceptance Tests for X-Ray Detector	0		10/20/08
XE_62	Commission - 2-D X-Ray Detector	7	10/21/08	10/29/08



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
2.06.04 Spares				
2.06.04.01 Spares - PPS Stoppers				
XE2410050	AWARD: - Spare PPS Beam Stop Hardware	1	02/26/07	02/26/07
XE2410060	Vendor Fab/Ship - Spare PPS Stoppers	20	02/27/07	03/26/07
XE2410070	RECV: Spare PPS Beam Stop Hardware	0		03/26/07
XE2410080	Assemble - Spare PPS Beam Stop Hardware (2)	80	12/11/07	04/18/08
2.06.05 X-Ray Detectors				
2.06.05.02 2-D X-Ray Detector				
XE2520051	Cornell Labor/Materials Jul-Sep2006	63*	07/03/06A	09/29/06
XE2520110	COMP: LDAC Review Jul2006	0		07/21/06A
XE2520060	Cornell Labor/Materials Q4 CY06	62	10/02/06	12/29/06
XE2520070	Cornell Labor/Materials Q1-Q3 CY07	189	01/02/07	09/28/07
XE2520120	COMP: LDAC Mid-Project Review	0		02/16/07*
XE2520020	AWARD: Cornell Contract - CY07	1	03/30/07*	03/30/07
XE2520080	Cornell Labor/Materials Q4 CY07	61	10/01/07	12/27/07
XE2520130	COMP: LDAC Review Oct2007	0		10/31/07*
XE2520030	AWARD: Cornell Contract - CY08	1	11/30/07*	11/30/07
XE2520090	Cornell Labor/Materials Q1-Q3 CY08	190	01/02/08	09/30/08
XE2520140	COMP: LDAC Review Apr2008	0		04/30/08*
XE2520100	Cornell Labor/Materials Q4 CY08	63	10/01/08	12/31/08
XE2520150	COMP: LDAC Review Oct2008	0		10/31/08*
XE2520160	COMP: LDAC Review Mar2009	0		03/31/09*
2.06.05.02.01 Proto 2 ASIC				
XE2521041	Design/fabricate test electronics for Proto 2	0	07/03/06A	07/20/06A
XE2521071	Fabrication of Proto 2 ASIC	0	07/03/06A	07/31/06
XE2521080	Eval of Proto 2 ASIC	53*	07/21/06A	10/04/06
XE2521050	AVAIL: Detector Description for Controls	0		09/29/06*
2.06.05.02.02 Proto 3 ASIC				
XE2522010	Design simulate Proto 3 ASIC (small scale pixel)	54	07/03/06A	09/18/06
XE2522020	Layout Proto 3 ASIC (small scale pixel)	54*	07/03/06A	09/18/06
XE2522030	Identify areas for improvement	54	07/03/06A	09/18/06
XE2522040	Proto 3 ASIC submission	0		10/04/06
XE2522050	Fabrication of Proto 3 ASIC	42	10/05/06	12/05/06



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
2.06.05.02.02	**Proto 3 ASIC**			
XE2522060	Test of Proto 3 ASIC	21	12/06/06	01/05/07
2.06.05.02.03	**Full Lot Prototype**			
XE2523021	Begin large scale layout infrastructure	53*	07/03/06A	09/15/06
XE2523081	Layout of detector diode for full-lot submission	63	07/03/06A	09/29/06
XE2523061	Design physical layout of hybrid	168*	07/03/06A	03/05/07
XE2523110	Design full-lot read-out circuitry	31	07/21/06A	09/01/06
XE2523031	Define interface to EPICs	85*	08/01/06	11/30/06
XE2523120	Data compression architecture	60	09/05/06	11/29/06
XE2523090	Submission Detector Diode	0	10/02/06	
XE2523150	Work on single module detector housing	35	10/02/06*	11/17/06
XE2523100	Fabricate Detector Diode	100	10/02/06	02/26/07
XE2523040	AVAIL: Detailed Controls Device Desc/Cnt	0		11/30/06
XE2523130	High speed data transfer and storage	40	11/30/06	01/29/07
XE2523050	Fabricate interface to EPICs	40	12/01/06	01/30/07
XE2523140	Modification of pixel electronics	21	12/06/06	01/05/07
XE2523160	Full-lot submission	0		02/26/07*
XE2523170	Fabricate Full Lot ASIC	42	02/27/07	04/25/07
XE2523070	Fabricate hybrid	20	03/06/07	04/02/07
XE2523180	Screen ASICs for bump bonding	10	04/26/07	05/09/07
XE2523200	REQD: EPICS control system	0		05/01/07*
XE2523190	Bump Bond & Assemble Prototype Detector	20	05/10/07	06/07/07
XE2523210	Test of Full Lot Prototype Detector	44	06/08/07	08/09/07
XE2523220	COMP: Delivery at SLAC of Full Lot Proto Detecto	0		08/09/07
2.06.05.02.04	**500px Detector**			
XE2524010	Design and layout Proto 4 ASIC	62	01/08/07	04/05/07
XE2524020	COMP: Submission Proto 4 ASIC	0		04/05/07
XE2524030	Fabricate Proto 4 ASIC	40	04/06/07	06/01/07
XE2524040	Test Proto 4 ASIC	20	06/04/07	06/29/07
XE2524050	Design and layout of final detector ASIC	62	07/11/07	10/05/07
XE2524100	Layout of final Detector Diode	30	08/10/07	09/21/07
XE2524130	Design PCB and Interface for final Detector	100	09/04/07*	01/30/08
XE2524110	COMP: Submission final Detector Diode	0		09/21/07



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
2.06.05.02.04	**500px Detector**			
XE2524120	Fabricate final Detector Diode	100	09/24/07	02/20/08
XE2524060	COMP: Submission final detector ASIC	0		10/05/07
XE2524080	START: 2-D Pixel Detector Production	0	10/08/07	
XE2524070	Fabricate final detector ASIC	40	10/08/07	12/04/07
XE2524090	Test & Calibrate final detector ASIC	20	12/05/07	01/07/08
XE2524140	Bump Bond ASIC to final Detector	20	02/21/08	03/19/08
XE2524150	Assembly of final Detector	40	03/20/08	05/14/08
XE2524170	Prepare Test and Calibration Procedures Report	40	05/08/08	07/03/08
XE2524180	Prepare Safety Document	40	05/08/08	07/03/08
XE2524160	Test and calibrate final Detector	30	05/15/08	06/26/08