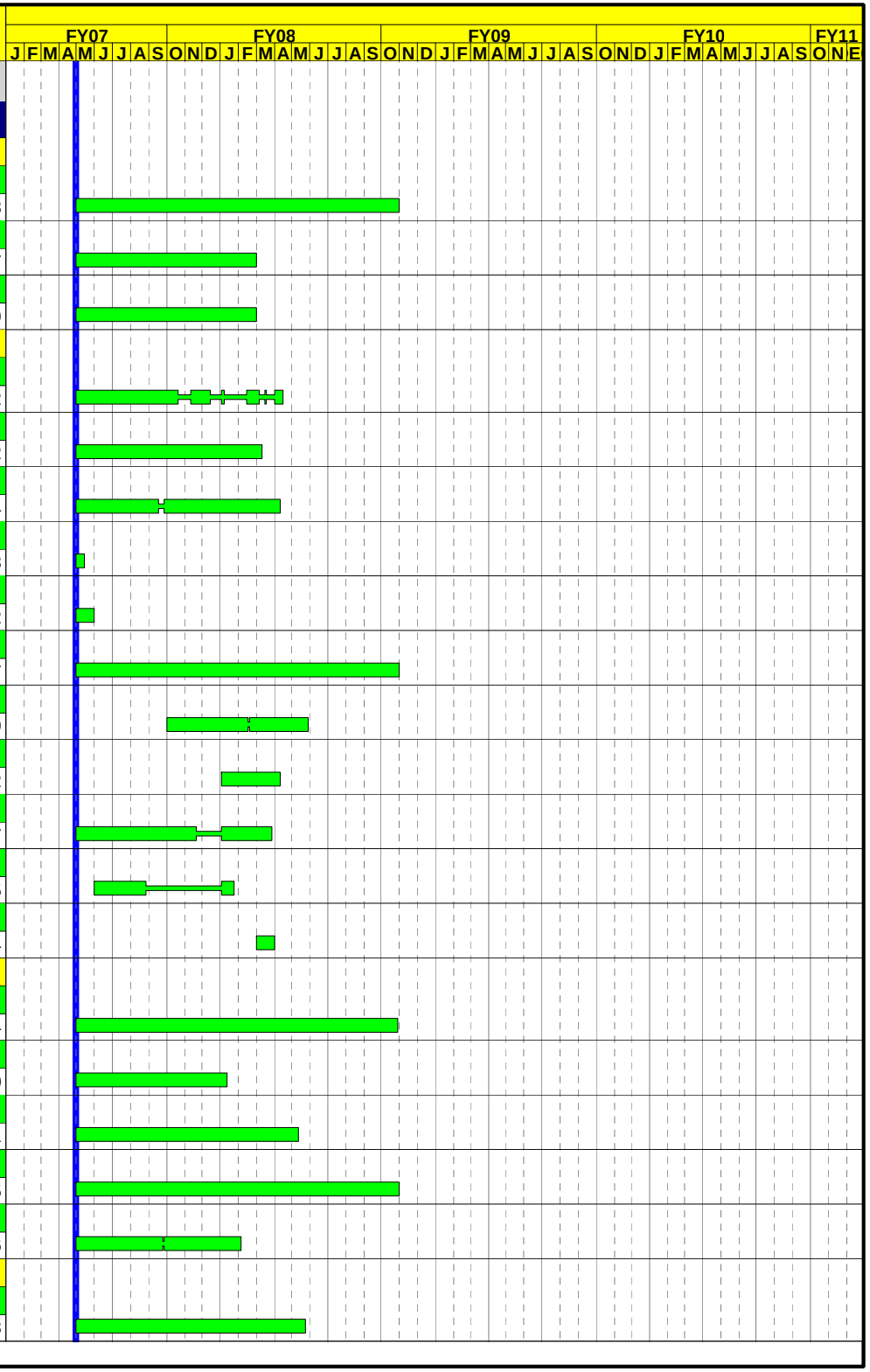
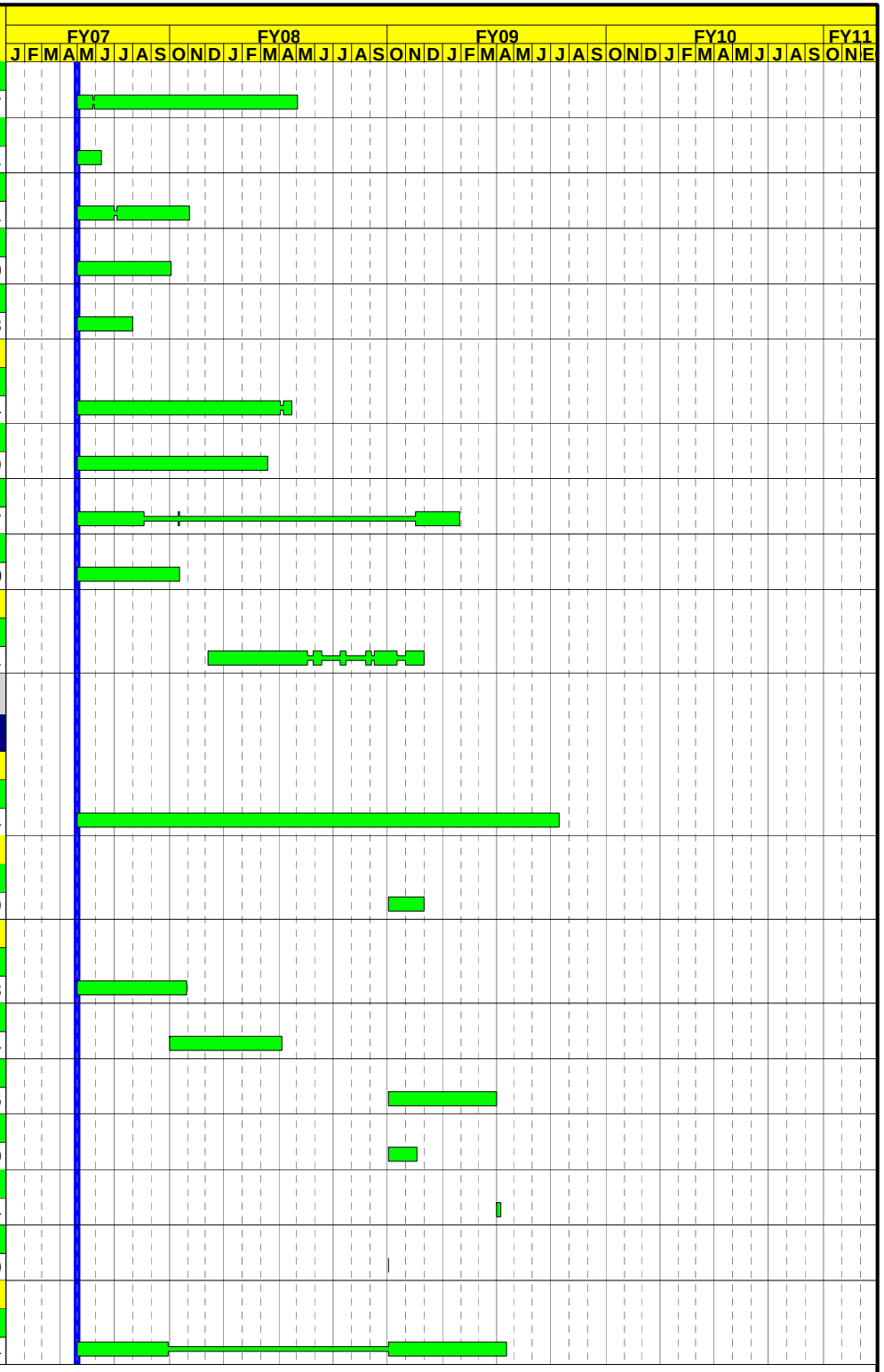
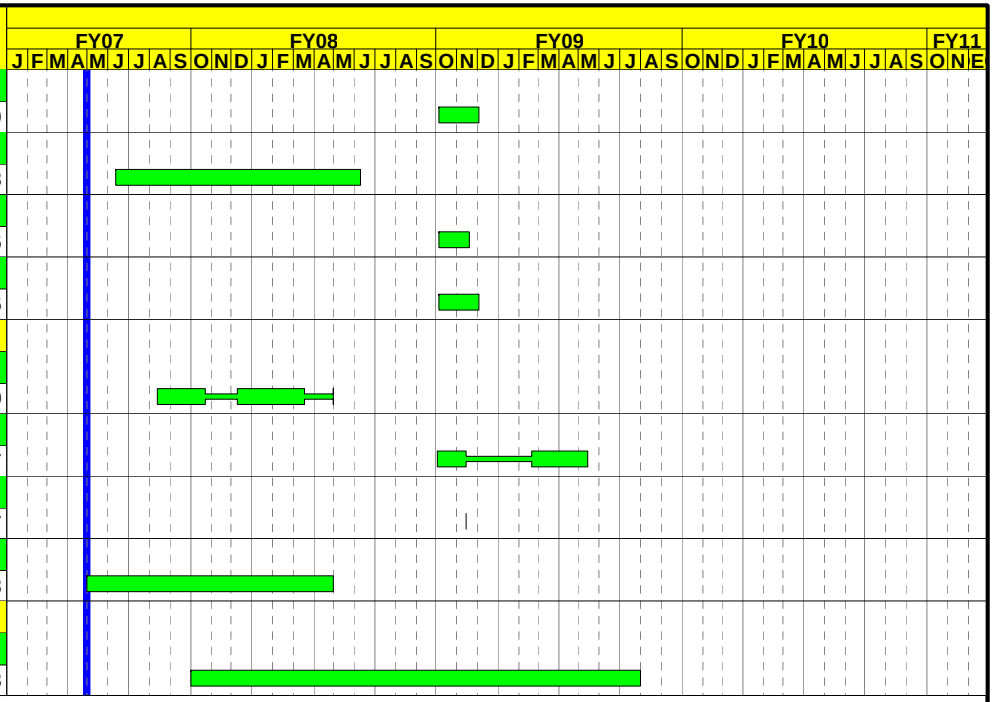
Activity ID	Activity Description	Early Start	Early Finish	Budgeted Cost
1 LCLS PROJECT - PED & CONSTRUCTION				
1.04 UNDULATOR SYSTEM				
1.04.01 Undulator System Management & Integration				
+ 1.04.01.01	Undulator System Management	01MAY07	31OCT08	1,633,818
+ 1.04.01.02	Undulator System Materials & Supplies	01MAY07	29FEB08	157,267
+ 1.04.01.03	Undulator System Reviews and Workshops	01MAY07	29FEB08	4,939
1.04.02 Controls				
+ 1.04.02.08	Undulator Magnet Power Supplies	01MAY07	15APR08	318,302
+ 1.04.02.10	Undulator Control Module	01MAY07	11MAR08	1,186,572
+ 1.04.02.12	Rack and Cable	01MAY07	10APR08	768,284
+ 1.04.02.13	BPM	01MAY07	14MAY07	20,678
+ 1.04.02.14	Long Term Test Prep	01MAY07	29MAY07	42,972
+ 1.04.02.17	Undulator Conrols - Management	01MAY07	29OCT08	231,597
+ 1.04.02.20	Undulator MPS	01OCT07	28MAY08	209,279
+ 1.04.02.21	Undulator Controls - Timing	02JAN08	10APR08	35,242
+ 1.04.02.22	Undulator Controls - BPM	01MAY07	27MAR08	172,597
+ 1.04.02.23	Undulator Controls - Vacuum	01JUN07	23JAN08	184,015
+ 1.04.02.24	Undulator Controls - ADS System	03MAR08	31MAR08	6,574
1.04.03 Undulator Magnet & Support				
+ 1.04.03.03	1st Article Undulators & Long Lead Procurements	01MAY07	27OCT08	883,184
+ 1.04.03.04	Production Undulator Magnet Assembly & Supports	01MAY07	11JAN08	2,711,920
+ 1.04.03.05	Quadrupole Focusing Magnets	01MAY07	12MAY08	412,601
+ 1.04.03.06	Undulator Magnetic Measurement Facility (SLAC)	01MAY07	31OCT08	3,116,385
+ 1.04.03.08	Fixed Supports	01MAY07	04FEB08	782,646
1.04.04 Vacuum System				
+ 1.04.04.02	Undulator Vacuum Chamber Assembly	01MAY07	23MAY08	1,695,323



Activity ID	Activity Description	Early Start	Early Finish	Budgeted Cost
+ 1.04.04.03	Beam-line Bellows Module Assembly			
		01MAY07	01MAY08	270,177
+ 1.04.04.04	Single Undulator Test (SUT) Vacuum			
		01MAY07	08JUN07	431
+ 1.04.04.05	Short Diagnostic Break (SDB) Assembly			
		01MAY07	02NOV07	67,811
+ 1.04.04.06	Long Diagnostic Break (LDB) Assembly			
		01MAY07	03OCT07	71,810
+ 1.04.04.09	Baking System			
		01MAY07	30JUL07	103,568
1.04.05	Diagnostics			
+ 1.04.05.05	RFBPM			
		01MAY07	22APR08	1,092,534
+ 1.04.05.06	Beam Finder Wire			
		01MAY07	13MAR08	569,969
+ 1.04.05.08	Beam Loss Monitoring			
		01MAY07	29JAN09	291,947
+ 1.04.05.11	Supplemental Shielding			
		01MAY07	18OCT07	0
1.04.06	Undulator System Installation and Alignment			
+ 1.04.06.06	2008 Undulator System Installation			
		05DEC07	01DEC08	995,611
2	**LCLS PROJECT - R&D, SPARES, COMMISSIONING**			
2.04	**UNDULATOR SYSTEM (OPC)**			
2.04.01	Undulator System Management & Integration			
+ 2.04.01.01	Undulator System Mgmt & Integration			
		01MAY07	15JUL09	1,687,394
2.04.02	Controls			
+ 2.04.02.01	Controls Management and Integration			
		02OCT08	01DEC08	96,189
2.04.03	Undulator Magnet & Support			
+ 2.04.03.01	Und Magnet & Support-Mgmt & Integration			
		01MAY07	29OCT07	87,403
+ 2.04.03.03	1st Article Undulators & Long Lead Procurements			
		01OCT07	07APR08	21,044
+ 2.04.03.04	Production Undulator			
		02OCT08	31MAR09	2,498,836
+ 2.04.03.05	Focusing Magnets			
		02OCT08	17NOV08	28,700
+ 2.04.03.06	Undulator Magnetic Measurement Facility (SLAC)			
		01APR09	07APR09	289,244
+ 2.04.03.08	Fixed Supports			
		02OCT08	02OCT08	80,000
2.04.04	Vacuum System			
+ 2.04.04.02	Undulator Vacuum Chamber Assembly			
		01MAY07	17APR09	326,414



Activity ID	Activity Description	Early Start	Early Finish	Budgeted Cost
+ 2.04.04.03	Beam-line Bellows Module Assembly			
		06OCT08	02DEC08	15,019
+ 2.04.04.04	Single Undulator Test(SUV) Vacuum			
		11JUN07	09JUN08	4,048
+ 2.04.04.05	Short Diagnostic Break (SDB) Assembly			
		06OCT08	17NOV08	1,276
+ 2.04.04.06	Long Diagnostic Break (LDB) Assembly			
		06OCT08	02DEC08	6,056
2.04.05	Undulator System Diagnostics [OPC]			
+ 2.04.05.05	RFBPM			
		13AUG07	30APR08	73,500
+ 2.04.05.06	Beam Finder Wire			
		03OCT08	14MAY09	33,277
+ 2.04.05.08	Beam Loss Monitoring			
		14NOV08	14NOV08	16,667
+ 2.04.05.10	SIngle Undulator Test (SUT)-Diagnostics			
		01MAY07	29APR08	4,038
2.04.06	LTU/Undulator/Dump Commissioning			
+ 2.04.06.01	LTU/Undulator/Dump Commissioning			
		02OCT07	31JUL09	3,723,213