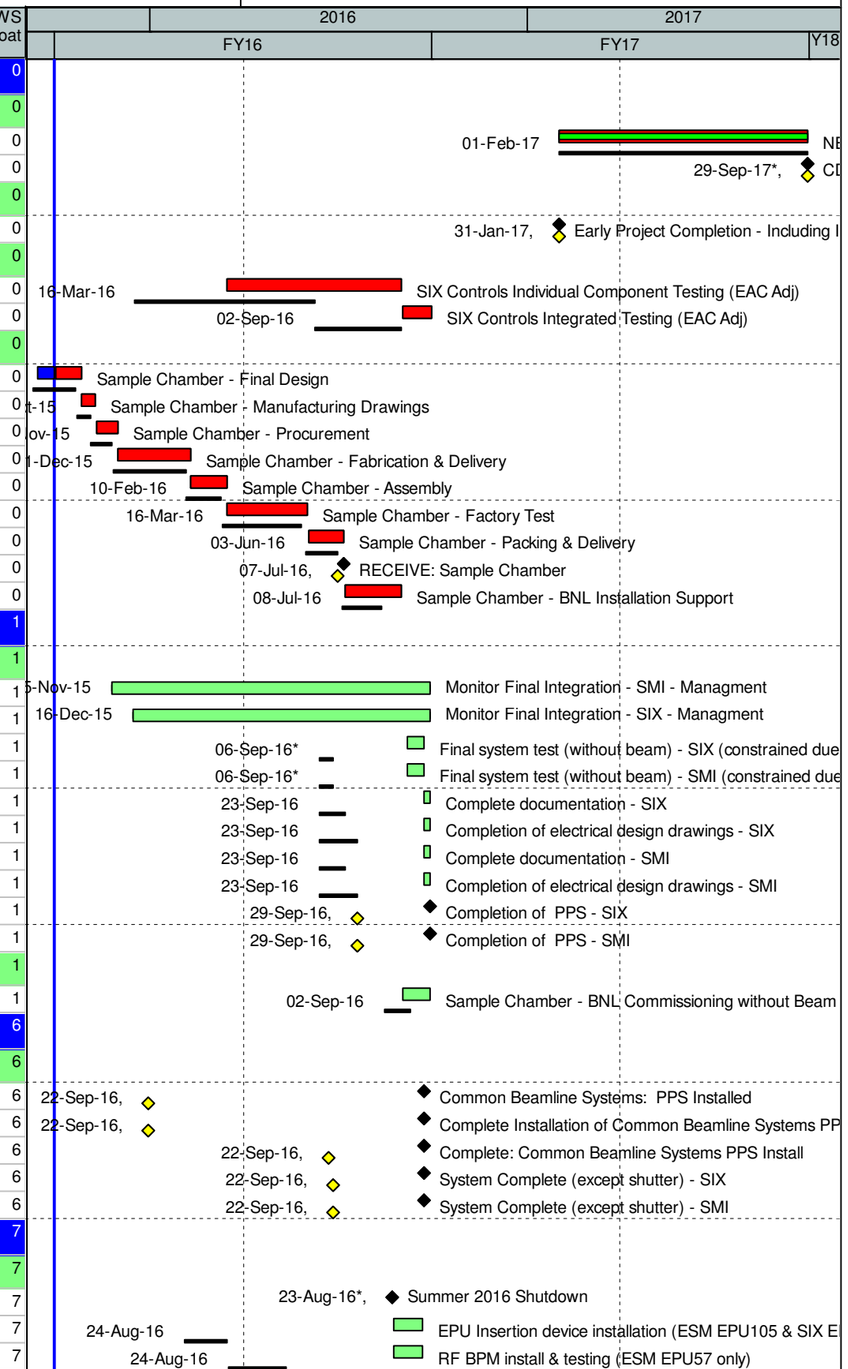
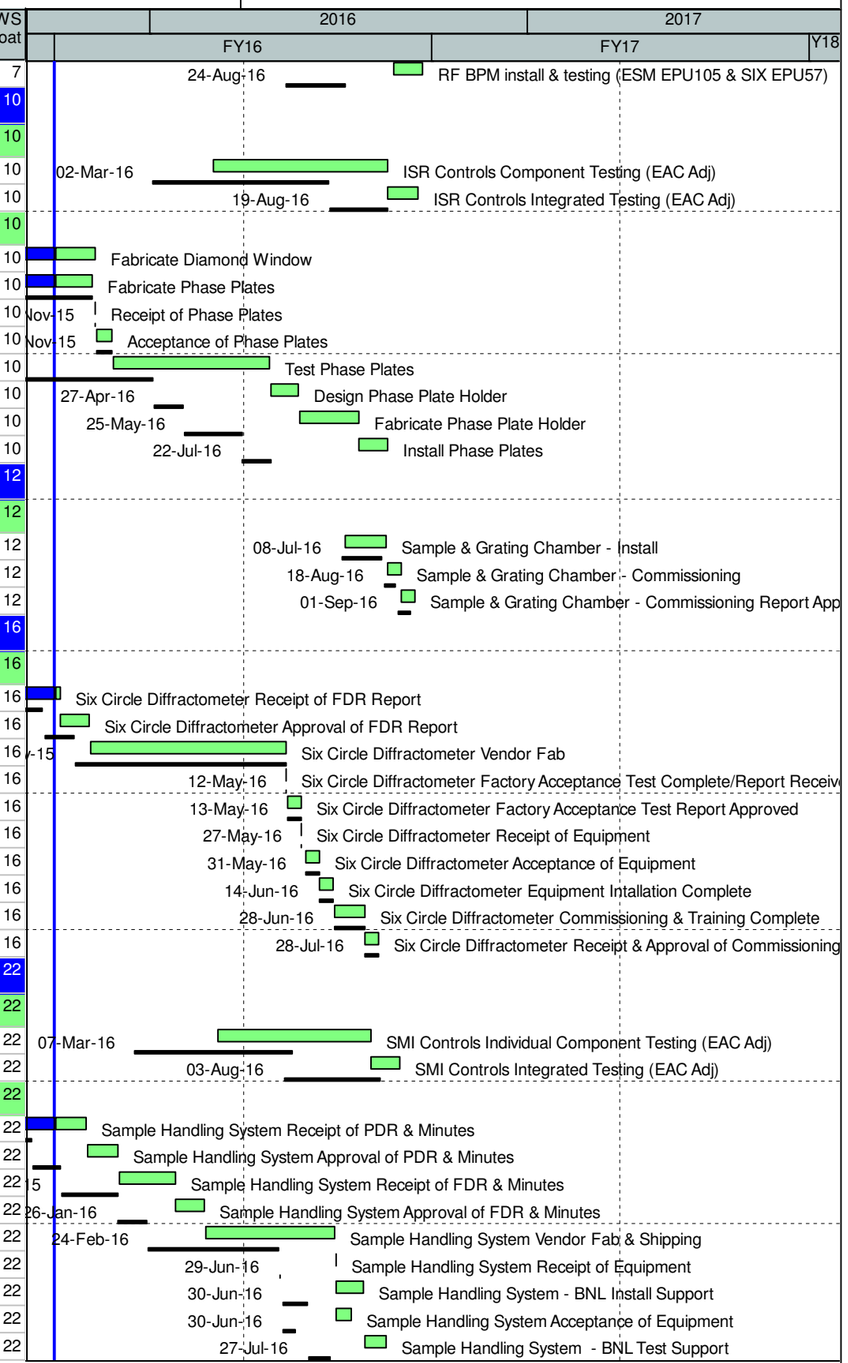
(R) NEXT - Near Critical Path

WBS	Activity ID	Activity Name	WS Dur	WS Start	WS Finish	WS Float
0			514	14-Sep-15 A	29-Sep-17	0
2-W.M.1 Level 1 Milestones			168	01-Feb-17	29-Sep-17	0
2-W.M.1	M1020	NEXT Project - Built-In Float for Schedule Contingency	168	01-Feb-17	29-Sep-17	0
2-W.M.1	M1025	CD-4 Project Completion	0		29-Sep-17*	0
2-W.M.2 Level 2 Milestones			0	31-Jan-17	31-Jan-17	0
2-W.M.2	M2075	Early Project Completion - Including IRR	0		31-Jan-17	0
2-W.04.02.05 SIX Control System Design & Implementation			140	16-Mar-16	30-Sep-16	0
2-W.04.02.05	CON1240	SIX Controls Individual Component Testing (EAC Adj)	120	16-Mar-16	01-Sep-16	0
2-W.04.02.05	CON1250	SIX Controls Integrated Testing (EAC Adj)	20	02-Sep-16	30-Sep-16	0
2-W.09.02.03 Endstation Equipment			245	14-Sep-15 A	01-Sep-16	0
2-W.09.02.03	SIX2296	Sample Chamber - Final Design	30	14-Sep-15 A	26-Oct-15	0
2-W.09.02.03	SIX2297	Sample Chamber - Manufacturing Drawings	10	27-Oct-15	09-Nov-15	0
2-W.09.02.03	SIX2299	Sample Chamber - Procurement	13	10-Nov-15	30-Nov-15	0
2-W.09.02.03	SIX2300	Sample Chamber - Fabrication & Delivery	48	01-Dec-15	09-Feb-16	0
2-W.09.02.03	SIX2301	Sample Chamber - Assembly	24	10-Feb-16	15-Mar-16	0
2-W.09.02.03	SIX2303	Sample Chamber - Factory Test	56	16-Mar-16	02-Jun-16	0
2-W.09.02.03	SIX2305	Sample Chamber - Packing & Delivery	24	03-Jun-16	07-Jul-16	0
2-W.09.02.03	SIX2310	RECEIVE: Sample Chamber	0		07-Jul-16	0
2-W.09.02.03	SIX2330	Sample Chamber - BNL Installation Support	40	08-Jul-16	01-Sep-16	0
1			215	25-Nov-15	29-Sep-16	1
2-W.03.02 Personnel Protection System (PPS)			215	25-Nov-15	29-Sep-16	1
2-W.03.02	CMPPS1700	Monitor Final Integration - SMI - Managment	215	25-Nov-15	29-Sep-16	1
2-W.03.02	CMPPS1300	Monitor Final Integration - SIX - Managment	200	16-Dec-15	29-Sep-16	1
2-W.03.02	CMPPS1370	Final system test (without beam) - SIX (constrained due to shutdown)	13	06-Sep-16*	22-Sep-16	1
2-W.03.02	CMPPS1770	Final system test (without beam) - SMI (constrained due to shutdown)	13	06-Sep-16*	22-Sep-16	1
2-W.03.02	CMPPS1390	Complete documentation - SIX	5	23-Sep-16	29-Sep-16	1
2-W.03.02	CMPPS1400	Completion of electrical design drawings - SIX	5	23-Sep-16	29-Sep-16	1
2-W.03.02	CMPPS1790	Complete documentation - SMI	5	23-Sep-16	29-Sep-16	1
2-W.03.02	CMPPS1800	Completion of electrical design drawings - SMI	5	23-Sep-16	29-Sep-16	1
2-W.03.02	CMPPS1410	Completion of PPS - SIX	0		29-Sep-16	1
2-W.03.02	CMPPS1810	Completion of PPS - SMI	0		29-Sep-16	1
2-W.09.02.03 Endstation Equipment			19	02-Sep-16	29-Sep-16	1
2-W.09.02.03	SIX2340	Sample Chamber - BNL Commissioning without Beam Support	19	02-Sep-16	29-Sep-16	1
6			0	22-Sep-16	22-Sep-16	6
2-W.03.02 Personnel Protection System (PPS)			0	22-Sep-16	22-Sep-16	6
2-W.03.02	M3010	Common Beamline Systems: PPS Installed	0		22-Sep-16	6
2-W.03.02	M2065	Complete Installation of Common Beamline Systems PPS	0		22-Sep-16	6
2-W.03.02	MCM260	Complete: Common Beamline Systems PPS Install	0		22-Sep-16	6
2-W.03.02	CMPPS1380	System Complete (except shutter) - SIX	0		22-Sep-16	6
2-W.03.02	CMPPS1780	System Complete (except shutter) - SMI	0		22-Sep-16	6
7			20	23-Aug-16	21-Sep-16	7
2-W.12.02 ID Installation & Testing			20	23-Aug-16	21-Sep-16	7
2-W.12.02	IDIS1038	Summer 2016 Shutdown	0		23-Aug-16*	7
2-W.12.02	IDIS10355	EPU Insertion device installation (ESM EPU105 & SIX EPU57)	20	24-Aug-16	21-Sep-16	7
2-W.12.02	IDIS10356	RF BPM install & testing (ESM EPU57 only)	20	24-Aug-16	21-Sep-16	7



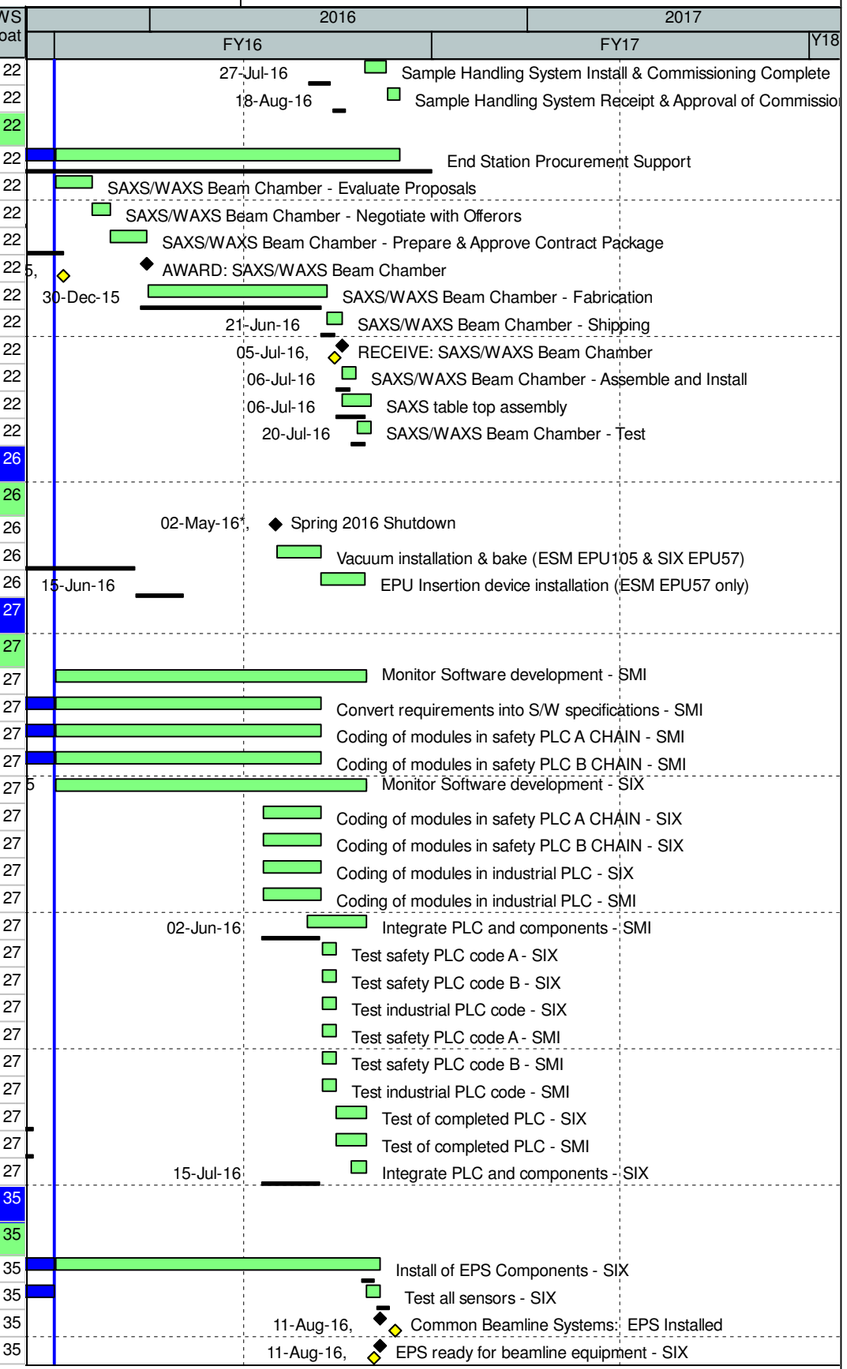
(R) NEXT - Near Critical Path

WBS	Activity ID	Activity Name	WS Dur	WS Start	WS Finish	WS Float
2-W.12.02	IDIS10357	RF BPM install & testing (ESM EPU105 & SIX EPU57)	20	24-Aug-16	21-Sep-16	7
10			361	14-Apr-15 A	16-Sep-16	10
2-W.04.02.03 ISR Control System Design & Implementation			140	02-Mar-16	16-Sep-16	10
2-W.04.02.03	CON0760	ISR Controls Component Testing (EAC Adj)	120	02-Mar-16	18-Aug-16	10
2-W.04.02.03	CON0770	ISR Controls Integrated Testing (EAC Adj)	20	19-Aug-16	16-Sep-16	10
2-W.07.02.01 Photon Delivery System			341	14-Apr-15 A	18-Aug-16	10
2-W.07.02.01	ISR1315	Fabricate Diamond Window	146	14-Apr-15 A	09-Nov-15	10
2-W.07.02.01	ISR1321	Fabricate Phase Plates	145	14-Apr-15 A	06-Nov-15	10
2-W.07.02.01	ISR1322	Receipt of Phase Plates	1	09-Nov-15	09-Nov-15	10
2-W.07.02.01	ISR1323	Acceptance of Phase Plates	10	10-Nov-15	25-Nov-15	10
2-W.07.02.01	ISR1325	Test Phase Plates	105	26-Nov-15	26-Apr-16	10
2-W.07.02.01	ISR1330	Design Phase Plate Holder	20	27-Apr-16	24-May-16	10
2-W.07.02.01	ISR1335	Fabricate Phase Plate Holder	40	25-May-16	21-Jul-16	10
2-W.07.02.01	ISR1340	Install Phase Plates	20	22-Jul-16	18-Aug-16	10
12			48	08-Jul-16	14-Sep-16	12
2-W.09.02.03 Endstation Equipment			48	08-Jul-16	14-Sep-16	12
2-W.09.02.03	SIX2312	Sample & Grating Chamber - Install	29	08-Jul-16	17-Aug-16	12
2-W.09.02.03	SIX2335	Sample & Grating Chamber - Commissioning	10	18-Aug-16	31-Aug-16	12
2-W.09.02.03	SIX2345	Sample & Grating Chamber - Commissioning Report Approval	9	01-Sep-16	14-Sep-16	12
16			276	08-Jul-15 A	10-Aug-16	16
2-W.07.02.03 Endstation Equipment			276	08-Jul-15 A	10-Aug-16	16
2-W.07.02.03	ISR2445	Six Circle Diffractometer Receipt of FDR Report	63	08-Jul-15 A	05-Oct-15	16
2-W.07.02.03	ISR2450	Six Circle Diffractometer Approval of FDR Report	20	06-Oct-15	03-Nov-15	16
2-W.07.02.03	ISR2455	Six Circle Diffractometer Vendor Fab	130	04-Nov-15	11-May-16	16
2-W.07.02.03	ISR2456	Six Circle Diffractometer Factory Acceptance Test Complete/Report Received	1	12-May-16	12-May-16	16
2-W.07.02.03	ISR2510	Six Circle Diffractometer Factory Acceptance Test Report Approved	10	13-May-16	26-May-16	16
2-W.07.02.03	ISR2515	Six Circle Diffractometer Receipt of Equipment	1	27-May-16	27-May-16	16
2-W.07.02.03	ISR2520	Six Circle Diffractometer Acceptance of Equipment	10	31-May-16	13-Jun-16	16
2-W.07.02.03	ISR2525	Six Circle Diffractometer Equipment Intallation Complete	10	14-Jun-16	27-Jun-16	16
2-W.07.02.03	ISR2530	Six Circle Diffractometer Commissioning & Training Complete	21	28-Jun-16	27-Jul-16	16
2-W.07.02.03	ISR2535	Six Circle Diffractometer Receipt & Approval of Commissioning Report	10	28-Jul-16	10-Aug-16	16
22			480	01-Oct-14 A	30-Aug-16	22
2-W.04.02.06 SMI Control System Design & Implementation			125	07-Mar-16	30-Aug-16	22
2-W.04.02.06	CON1480	SMI Controls Individual Component Testing (EAC Adj)	105	07-Mar-16	02-Aug-16	22
2-W.04.02.06	CON1490	SMI Controls Integrated Testing (EAC Adj)	20	03-Aug-16	30-Aug-16	22
2-W.08.02.03 Endstation Equipment			251	01-Sep-15 A	30-Aug-16	22
2-W.08.02.03	ISS0647	Sample Handling System Receipt of PDR & Minutes	42	01-Sep-15 A	30-Oct-15	22
2-W.08.02.03	ISS0648	Sample Handling System Approval of PDR & Minutes	20	02-Nov-15	01-Dec-15	22
2-W.08.02.03	ISS0653	Sample Handling System Receipt of FDR & Minutes	36	02-Dec-15	25-Jan-16	22
2-W.08.02.03	ISS0654	Sample Handling System Approval of FDR & Minutes	20	26-Jan-16	23-Feb-16	22
2-W.08.02.03	ISS0655	Sample Handling System Vendor Fab & Shipping	89	24-Feb-16	28-Jun-16	22
2-W.08.02.03	ISS0656	Sample Handling System Receipt of Equipment	1	29-Jun-16	29-Jun-16	22
2-W.08.02.03	ISS0685	Sample Handling System - BNL Install Support	18	30-Jun-16	26-Jul-16	22
2-W.08.02.03	ISS0657	Sample Handling System Acceptance of Equipment	10	30-Jun-16	14-Jul-16	22
2-W.08.02.03	ISS0695	Sample Handling System - BNL Test Support	16	27-Jul-16	17-Aug-16	22



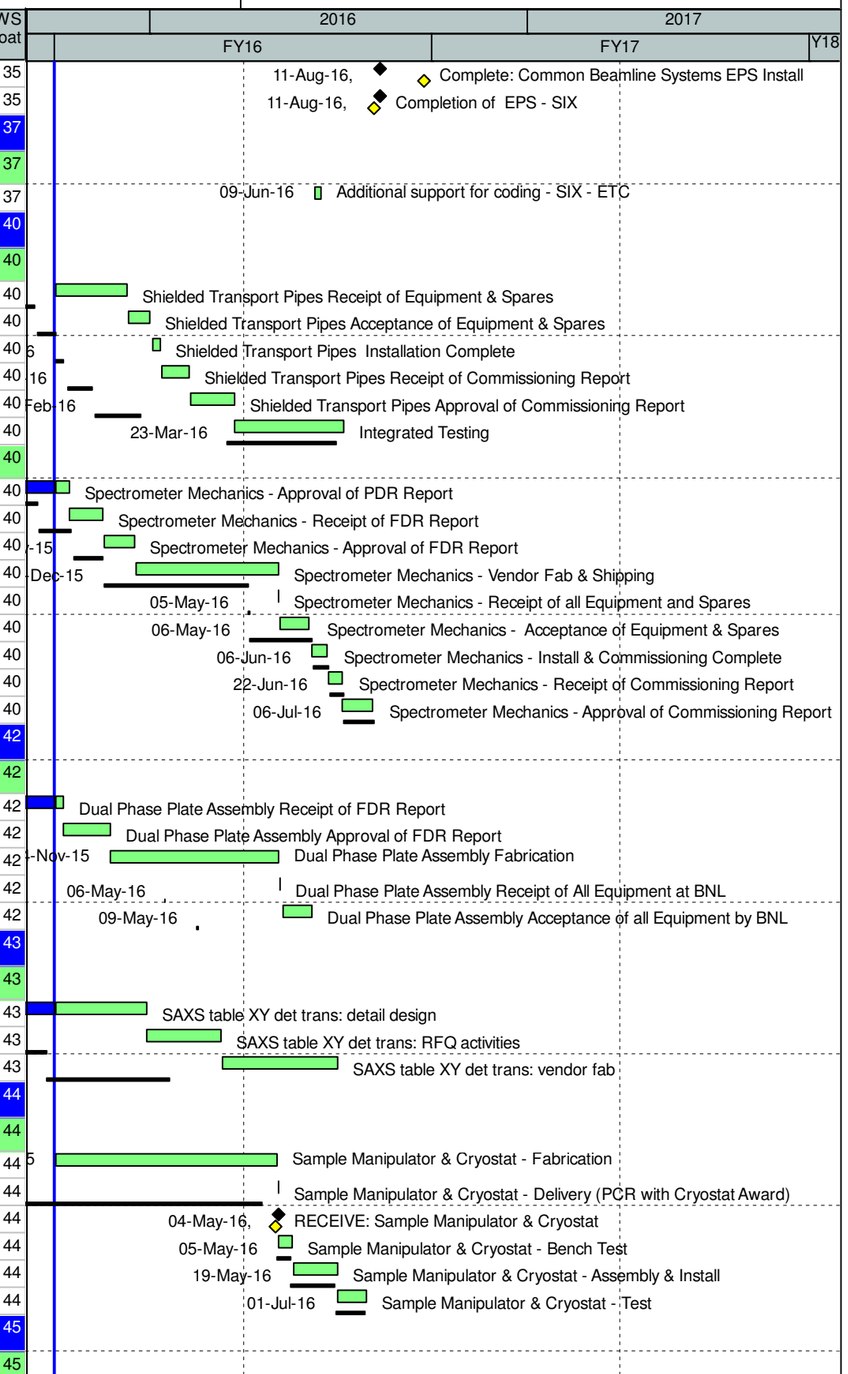
(R) NEXT - Near Critical Path

WBS	Activity ID	Activity Name	WS Dur	WS Start	WS Finish	WS Float
2-W.08.02.03	ISS0686	Sample Handling System Install & Commissioning Complete	16	27-Jul-16	17-Aug-16	22
2-W.08.02.03	ISS0696	Sample Handling System Receipt & Approval of Commissioning Report	9	18-Aug-16	30-Aug-16	22
2-W.10.02.03 Endstation Equipment			480	01-Oct-14 A	30-Aug-16	22
2-W.10.02.03	SMI4100	End Station Procurement Support	480	01-Oct-14 A	30-Aug-16	22
2-W.10.02.03	SMI1980	SAXS/WAXS Beam Chamber - Evaluate Proposals	25	01-Oct-15	05-Nov-15	22
2-W.10.02.03	SMI1985	SAXS/WAXS Beam Chamber - Negotiate with Offerors	10	06-Nov-15	23-Nov-15	22
2-W.10.02.03	SMI1990	SAXS/WAXS Beam Chamber - Prepare & Approve Contract Package	25	24-Nov-15	29-Dec-15	22
2-W.10.02.03	SMI2000	AWARD: SAXS/WAXS Beam Chamber	0		29-Dec-15	22
2-W.10.02.03	SMI2020	SAXS/WAXS Beam Chamber - Fabrication	120	30-Dec-15	20-Jun-16	22
2-W.10.02.03	SMI2040	SAXS/WAXS Beam Chamber - Shipping	10	21-Jun-16	05-Jul-16	22
2-W.10.02.03	SMI2050	RECEIVE: SAXS/WAXS Beam Chamber	0		05-Jul-16	22
2-W.10.02.03	SMI2060	SAXS/WAXS Beam Chamber - Assemble and Install	10	06-Jul-16	19-Jul-16	22
2-W.10.02.03	SMI6230	SAXS table top assembly	20	06-Jul-16	02-Aug-16	22
2-W.10.02.03	SMI2070	SAXS/WAXS Beam Chamber - Test	10	20-Jul-16	02-Aug-16	22
26			60	02-May-16	27-Jul-16	26
2-W.12.02 ID Installation & Testing			60	02-May-16	27-Jul-16	26
2-W.12.02	IDIS1037	Spring 2016 Shutdown	0		02-May-16*	26
2-W.12.02	IDIS10353	Vacuum installation & bake (ESM EPU105 & SIX EPU57)	30	03-May-16	14-Jun-16	26
2-W.12.02	IDIS10354	EPU Insertion device installation (ESM EPU57 only)	30	15-Jun-16	27-Jul-16	26
27			409	11-Dec-14 A	28-Jul-16	27
2-W.03.02 Personnel Protection System (PPS)			409	11-Dec-14 A	28-Jul-16	27
2-W.03.02	CMPPS1610	Monitor Software development - SMI	409	11-Dec-14 A	28-Jul-16	27
2-W.03.02	CMPPS1620	Convert requirements into S/W specifications - SMI	379	11-Dec-14 A	15-Jun-16	27
2-W.03.02	CMPPS1630	Coding of modules in safety PLC A CHAIN - SMI	379	11-Dec-14 A	15-Jun-16	27
2-W.03.02	CMPPS1640	Coding of modules in safety PLC B CHAIN - SMI	379	11-Dec-14 A	15-Jun-16	27
2-W.03.02	CMPPS1210	Monitor Software development - SIX	206	02-Oct-15	28-Jul-16	27
2-W.03.02	CMPPS1230	Coding of modules in safety PLC A CHAIN - SIX	40	20-Apr-16	15-Jun-16	27
2-W.03.02	CMPPS1240	Coding of modules in safety PLC B CHAIN - SIX	40	20-Apr-16	15-Jun-16	27
2-W.03.02	CMPPS1250	Coding of modules in industrial PLC - SIX	40	20-Apr-16	15-Jun-16	27
2-W.03.02	CMPPS1650	Coding of modules in industrial PLC - SMI	40	20-Apr-16	15-Jun-16	27
2-W.03.02	CMPPS1760	Integrate PLC and components - SMI	40	02-Jun-16	28-Jul-16	27
2-W.03.02	CMPPS1260	Test safety PLC code A - SIX	10	16-Jun-16	29-Jun-16	27
2-W.03.02	CMPPS1270	Test safety PLC code B - SIX	10	16-Jun-16	29-Jun-16	27
2-W.03.02	CMPPS1280	Test industrial PLC code - SIX	10	16-Jun-16	29-Jun-16	27
2-W.03.02	CMPPS1660	Test safety PLC code A - SMI	10	16-Jun-16	29-Jun-16	27
2-W.03.02	CMPPS1670	Test safety PLC code B - SMI	10	16-Jun-16	29-Jun-16	27
2-W.03.02	CMPPS1680	Test industrial PLC code - SMI	10	16-Jun-16	29-Jun-16	27
2-W.03.02	CMPPS1290	Test of completed PLC - SIX	20	30-Jun-16	28-Jul-16	27
2-W.03.02	CMPPS1690	Test of completed PLC - SMI	20	30-Jun-16	28-Jul-16	27
2-W.03.02	CMPPS1360	Integrate PLC and components - SIX	10	15-Jul-16	28-Jul-16	27
35			286	24-Jun-15 A	11-Aug-16	35
2-W.03.03 Equipment Protection System (EPS)			286	24-Jun-15 A	11-Aug-16	35
2-W.03.03	CMEPS1580	Install of EPS Components - SIX	286	24-Jun-15 A	11-Aug-16	35
2-W.03.03	CMEPS1590	Test all sensors - SIX	264	27-Jul-15 A	11-Aug-16	35
2-W.03.03	M3015	Common Beamline Systems: EPS Installed	0		11-Aug-16	35
2-W.03.03	CMNMS23	EPS ready for beamline equipment - SIX	0		11-Aug-16	35



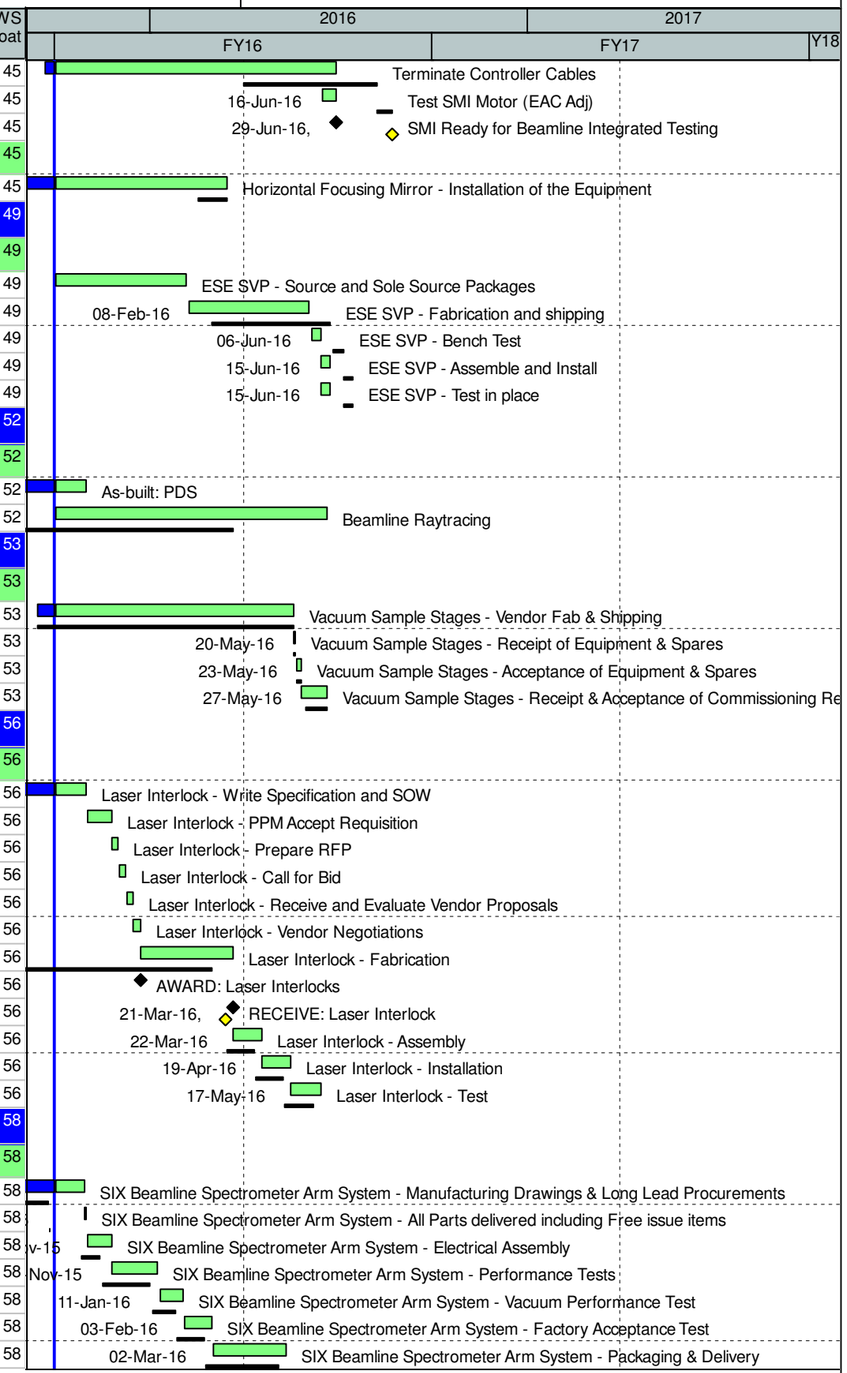
(R) NEXT - Near Critical Path

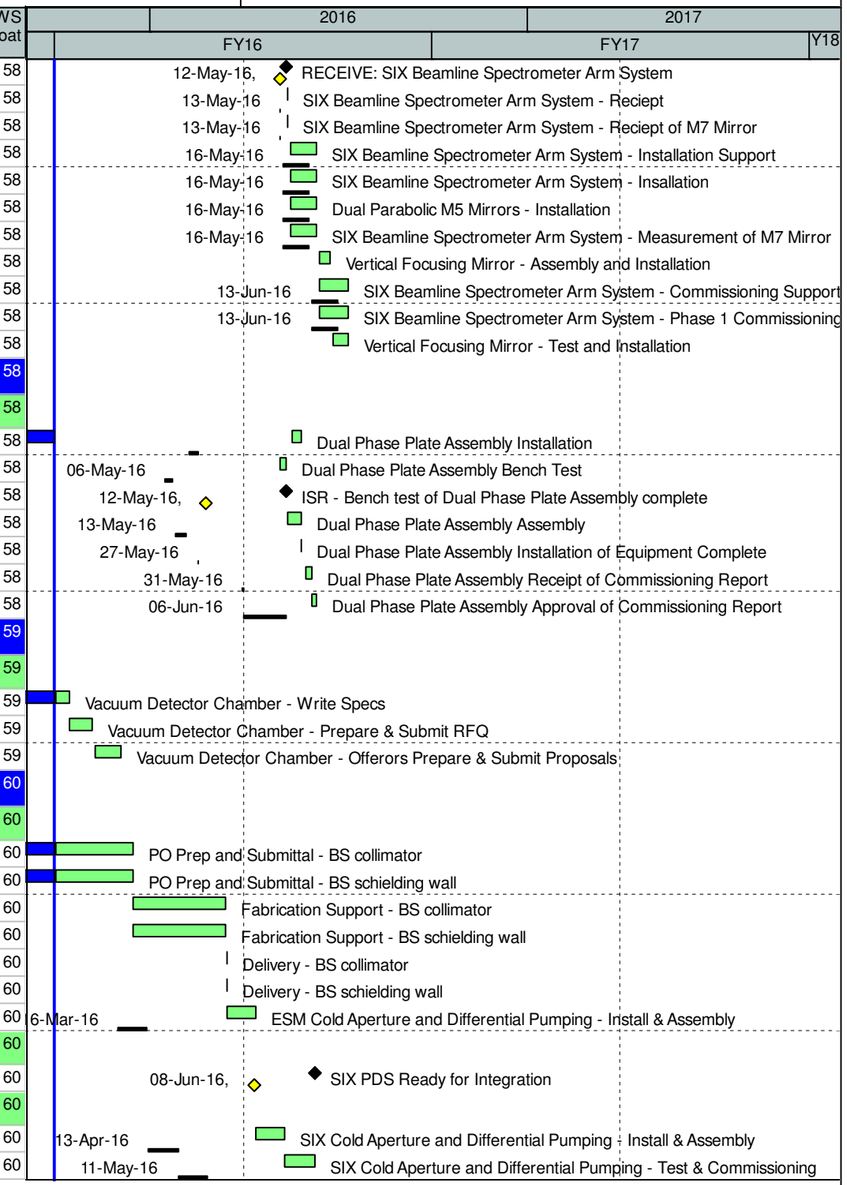
WBS	Activity ID	Activity Name	WS Dur	WS Start	WS Finish	WS Float
2-W.03.03	MCM270	Complete: Common Beamline Systems EPS Install	0		11-Aug-16	35
2-W.03.03	CMEPS1600	Completion of EPS - SIX	0		11-Aug-16	35
37			5	09-Jun-16	15-Jun-16	37
2-W.03.02 Personnel Protection System (PPS)			5	09-Jun-16	15-Jun-16	37
2-W.03.02	CMPPS1255	Additional support for coding - SIX - ETC	5	09-Jun-16	15-Jun-16	37
40			244	17-Aug-15 A	04-Aug-16	40
2-W.07.02.01 Photon Delivery System			192	01-Oct-15	07-Jul-16	40
2-W.07.02.01	ISR1505	Shielded Transport Pipes Receipt of Equipment & Spares	48	01-Oct-15	10-Dec-15	40
2-W.07.02.01	ISR1506	Shielded Transport Pipes Acceptance of Equipment & Spares	14	11-Dec-15	31-Dec-15	40
2-W.07.02.01	ISR1507	Shielded Transport Pipes Installation Complete	6	04-Jan-16	11-Jan-16	40
2-W.07.02.01	ISR1508	Shielded Transport Pipes Receipt of Commissioning Report	19	12-Jan-16	08-Feb-16	40
2-W.07.02.01	ISR1509	Shielded Transport Pipes Approval of Commissioning Report	30	09-Feb-16	22-Mar-16	40
2-W.07.02.01	ISR1390	Integrated Testing	75	23-Mar-16	07-Jul-16	40
2-W.08.02.03 Endstation Equipment			244	17-Aug-15 A	04-Aug-16	40
2-W.08.02.03	ISS1890	Spectrometer Mechanics - Approval of PDR Report	41	17-Aug-15 A	14-Oct-15	40
2-W.08.02.03	ISS1920	Spectrometer Mechanics - Receipt of FDR Report	23	15-Oct-15	16-Nov-15	40
2-W.08.02.03	ISS2145	Spectrometer Mechanics - Approval of FDR Report	21	17-Nov-15	17-Dec-15	40
2-W.08.02.03	ISS2155	Spectrometer Mechanics - Vendor Fab & Shipping	95	18-Dec-15	04-May-16	40
2-W.08.02.03	ISS2160	Spectrometer Mechanics - Receipt of all Equipment and Spares	1	05-May-16	05-May-16	40
2-W.08.02.03	ISS2165	Spectrometer Mechanics - Acceptance of Equipment & Spares	20	06-May-16	03-Jun-16	40
2-W.08.02.03	ISS2175	Spectrometer Mechanics - Install & Commissioning Complete	12	06-Jun-16	21-Jun-16	40
2-W.08.02.03	ISS2185	Spectrometer Mechanics - Receipt of Commissioning Report	9	22-Jun-16	05-Jul-16	40
2-W.08.02.03	ISS2195	Spectrometer Mechanics - Approval of Commissioning Report	22	06-Jul-16	04-Aug-16	40
42			276	01-May-15 A	06-Jun-16	42
2-W.07.02.01 Photon Delivery System			276	01-May-15	06-Jun-16	42
2-W.07.02.01	ISR0660	Dual Phase Plate Assembly Receipt of FDR Report	112	01-May-15	08-Oct-15	42
2-W.07.02.01	ISR0660010	Dual Phase Plate Assembly Approval of FDR Report	29	09-Oct-15	23-Nov-15	42
2-W.07.02.01	ISR0660012	Dual Phase Plate Assembly Fabrication	114	24-Nov-15	05-May-16	42
2-W.07.02.01	ISR0660015	Dual Phase Plate Assembly Receipt of All Equipment at BNL	1	06-May-16	06-May-16	42
2-W.07.02.01	ISR0660020	Dual Phase Plate Assembly Acceptance of all Equipment by BNL	20	09-May-16	06-Jun-16	42
43			259	23-Jun-15 A	01-Jul-16	43
2-W.10.02.03 Endstation Equipment			259	23-Jun-15 A	01-Jul-16	43
2-W.10.02.03	SMI6200	SAXS table XY det trans: detail design	129	23-Jun-15 A	28-Dec-15	43
2-W.10.02.03	SMI6205	SAXS table XY det trans: RFQ activities	50	29-Dec-15	10-Mar-16	43
2-W.10.02.03	SMI6210	SAXS table XY det trans: vendor fab	80	11-Mar-16	01-Jul-16	43
44			208	01-Oct-15	29-Jul-16	44
2-W.09.02.03 Endstation Equipment			208	01-Oct-15	29-Jul-16	44
2-W.09.02.03	SIX2015	Sample Manipulator & Cryostat - Fabrication	147	01-Oct-15	03-May-16	44
2-W.09.02.03	SIX2017	Sample Manipulator & Cryostat - Delivery (PCR with Cryostat Award)	1	04-May-16	04-May-16	44
2-W.09.02.03	SIX2030	RECEIVE: Sample Manipulator & Cryostat	0		04-May-16	44
2-W.09.02.03	SIX2040	Sample Manipulator & Cryostat - Bench Test	10	05-May-16	18-May-16	44
2-W.09.02.03	SIX2050	Sample Manipulator & Cryostat - Assembly & Install	30	19-May-16	30-Jun-16	44
2-W.09.02.03	SIX2060	Sample Manipulator & Cryostat - Test	20	01-Jul-16	29-Jul-16	44
45			205	04-Sep-15 A	29-Jun-16	45
2-W.04.02.06 SMI Control System Design & Implementation			195	21-Sep-15 A	29-Jun-16	45



(R) NEXT - Near Critical Path

WBS	Activity ID	Activity Name	WS Dur	WS Start	WS Finish	WS Float
2-W.04.02.06	CON1457	Terminate Controller Cables	195	21-Sep-15 A	29-Jun-16	45
2-W.04.02.06	CON1460	Test SMI Motor (EAC Adj)	10	16-Jun-16	29-Jun-16	45
2-W.04.02.06	CON1470	SMI Ready for Beamline Integrated Testing	0		29-Jun-16	45
2-W.07.02.01 Photon Delivery System			130	04-Sep-15 A	15-Mar-16	45
2-W.07.02.01	ISR0260	Horizontal Focusing Mirror - Installation of the Equipment	130	04-Sep-15 A	15-Mar-16	45
49			183	01-Oct-15	23-Jun-16	49
2-W.10.02.03 Endstation Equipment			183	01-Oct-15	23-Jun-16	49
2-W.10.02.03	SMI3040	ESE SVP - Source and Sole Source Packages	86	01-Oct-15	05-Feb-16	49
2-W.10.02.03	SMI3100	ESE SVP - Fabrication and shipping	83	08-Feb-16	03-Jun-16	49
2-W.10.02.03	SMI3110	ESE SVP - Bench Test	7	06-Jun-16	14-Jun-16	49
2-W.10.02.03	SMI3120	ESE SVP - Assemble and Install	7	15-Jun-16	23-Jun-16	49
2-W.10.02.03	SMI3130	ESE SVP - Test in place	7	15-Jun-16	23-Jun-16	49
52			297	16-Apr-15 A	20-Jun-16	52
2-W.10.02.03 Endstation Equipment			297	16-Apr-15 A	20-Jun-16	52
2-W.10.02.03	SMI3460	As-built: PDS	138	16-Apr-15 A	30-Oct-15	52
2-W.10.02.03	SMI3450	Beamline Raytracing	180	01-Oct-15	20-Jun-16	52
53			192	14-Sep-15 A	20-Jun-16	53
2-W.10.02.03 Endstation Equipment			192	14-Sep-15 A	20-Jun-16	53
2-W.10.02.03	SMI6315	Vacuum Sample Stages - Vendor Fab & Shipping	172	14-Sep-15 A	19-May-16	53
2-W.10.02.03	SMI6320	Vacuum Sample Stages - Receipt of Equipment & Spares	1	20-May-16	20-May-16	53
2-W.10.02.03	SMI6325	Vacuum Sample Stages - Acceptance of Equipment & Spares	4	23-May-16	27-May-16	53
2-W.10.02.03	SMI6335	Vacuum Sample Stages - Receipt & Acceptance of Commissioning Report	15	27-May-16	20-Jun-16	53
56			262	01-Jun-15 A	14-Jun-16	56
2-W.07.02.03 Endstation Equipment			262	01-Jun-15 A	14-Jun-16	56
2-W.07.02.03	ISR2120	Laser Interlock - Write Specification and SOW	107	01-Jun-15 A	30-Oct-15	56
2-W.07.02.03	ISR2130	Laser Interlock - PPM Accept Requisition	15	02-Nov-15	24-Nov-15	56
2-W.07.02.03	ISR2140	Laser Interlock - Prepare RFP	5	25-Nov-15	01-Dec-15	56
2-W.07.02.03	ISR2150	Laser Interlock - Call for Bid	5	02-Dec-15	08-Dec-15	56
2-W.07.02.03	ISR2160	Laser Interlock - Receive and Evaluate Vendor Proposals	5	09-Dec-15	15-Dec-15	56
2-W.07.02.03	ISR2170	Laser Interlock - Vendor Negotiations	5	16-Dec-15	22-Dec-15	56
2-W.07.02.03	ISR2200	Laser Interlock - Fabrication	60	23-Dec-15	21-Mar-16	56
2-W.07.02.03	ISR2180	AWARD: Laser Interlocks	0	23-Dec-15		56
2-W.07.02.03	ISR2220	RECEIVE: Laser Interlock	0		21-Mar-16	56
2-W.07.02.03	ISR2230	Laser Interlock - Assembly	20	22-Mar-16	18-Apr-16	56
2-W.07.02.03	ISR2240	Laser Interlock - Installation	20	19-Apr-16	16-May-16	56
2-W.07.02.03	ISR2241	Laser Interlock - Test	20	17-May-16	14-Jun-16	56
58			215	01-Sep-15 A	11-Jul-16	58
2-W.09.02.03 Endstation Equipment			215	01-Sep-15 A	11-Jul-16	58
2-W.09.02.03	SIX243512	SIX Beamline Spectrometer Arm System - Manufacturing Drawings & Long Lead Procurements	41	01-Sep-15 A	29-Oct-15	58
2-W.09.02.03	SIX243513	SIX Beamline Spectrometer Arm System - All Parts delivered including Free issue items	1	30-Oct-15	30-Oct-15	58
2-W.09.02.03	SIX243515	SIX Beamline Spectrometer Arm System - Electrical Assembly	15	02-Nov-15	24-Nov-15	58
2-W.09.02.03	SIX243516	SIX Beamline Spectrometer Arm System - Performance Tests	31	25-Nov-15	08-Jan-16	58
2-W.09.02.03	SIX243517	SIX Beamline Spectrometer Arm System - Vacuum Performance Test	16	11-Jan-16	02-Feb-16	58
2-W.09.02.03	SIX243518	SIX Beamline Spectrometer Arm System - Factory Acceptance Test	19	03-Feb-16	01-Mar-16	58
2-W.09.02.03	SIX243519	SIX Beamline Spectrometer Arm System - Packaging & Delivery	52	02-Mar-16	12-May-16	58



(R) NEXT - Near Critical Path

WBS	Activity ID	Activity Name	WS Dur	WS Start	WS Finish	WS Float
2-W.09.02.03	SIX2450	RECEIVE: SIX Beamline Spectrometer Arm System	0		12-May-16	58
2-W.09.02.03	SIX243520	SIX Beamline Spectrometer Arm System - Reciept	1	13-May-16	13-May-16	58
2-W.09.02.03	SIX243524	SIX Beamline Spectrometer Arm System - Reciept of M7 Mirror	1	13-May-16	13-May-16	58
2-W.09.02.03	SIX2470	SIX Beamline Spectrometer Arm System - Installation Support	19	16-May-16	10-Jun-16	58
2-W.09.02.03	SIX243526	SIX Beamline Spectrometer Arm System - Insallation	19	16-May-16	10-Jun-16	58
2-W.09.02.03	SIX243531	Dual Parabolic M5 Mirrors - Installation	19	16-May-16	10-Jun-16	58
2-W.09.02.03	SIX243525	SIX Beamline Spectrometer Arm System - Measurement of M7 Mirror	19	16-May-16	10-Jun-16	58
2-W.09.02.03	SIX2190	Vertical Focusing Mirror - Assembly and Installation	10	13-Jun-16	24-Jun-16	58
2-W.09.02.03	SIX2480	SIX Beamline Spectrometer Arm System - Commissioning Support - Phase 1	20	13-Jun-16	11-Jul-16	58
2-W.09.02.03	SIX243536	SIX Beamline Spectrometer Arm System - Phase 1 Commissioning	20	13-Jun-16	11-Jul-16	58
2-W.09.02.03	SIX2200	Vertical Focusing Mirror - Test and Installation	10	27-Jun-16	11-Jul-16	58
58			192	04-Sep-15 A	10-Jun-16	58
2-W.07.02.01 Photon Delivery System			192	04-Sep-15 A	10-Jun-16	58
2-W.07.02.01	ISR0660024	Dual Phase Plate Assembly Installation	182	04-Sep-15 A	26-May-16	58
2-W.07.02.01	ISR0660021	Dual Phase Plate Assembly Bench Test	5	06-May-16	12-May-16	58
2-W.07.02.01	M3105	ISR - Bench test of Dual Phase Plate Assembly complete	0		12-May-16	58
2-W.07.02.01	ISR0660022	Dual Phase Plate Assembly Assembly	10	13-May-16	26-May-16	58
2-W.07.02.01	ISR0660025	Dual Phase Plate Assembly Installation of Equipment Complete	1	27-May-16	27-May-16	58
2-W.07.02.01	ISR0660030	Dual Phase Plate Assembly Receipt of Commissioning Report	4	31-May-16	06-Jun-16	58
2-W.07.02.01	ISR0660035	Dual Phase Plate Assembly Approval of Commissioning Report	4	06-Jun-16	10-Jun-16	58
59			198	23-Feb-15 A	03-Dec-15	59
2-W.10.02.03 Endstation Equipment			198	23-Feb-15 A	03-Dec-15	59
2-W.10.02.03	SMI6015	Vacuum Detector Chamber - Write Specs	164	23-Feb-15 A	14-Oct-15	59
2-W.10.02.03	SMI6025	Vacuum Detector Chamber - Prepare & Submit RFQ	17	15-Oct-15	06-Nov-15	59
2-W.10.02.03	SMI6035	Vacuum Detector Chamber - Offerors Prepare & Submit Proposals	17	09-Nov-15	03-Dec-15	59
60			236	01-Jul-15 A	08-Jun-16	60
2-W.05.02.01 Photon Delivery System			196	01-Jul-15 A	12-Apr-16	60
2-W.05.02.01	ESM4090	PO Prep and Submittal - BS collimator	115	01-Jul-15 A	15-Dec-15	60
2-W.05.02.01	ESM4130	PO Prep and Submittal - BS schielding wall	115	01-Jul-15 A	15-Dec-15	60
2-W.05.02.01	ESM4100	Fabrication Support - BS collimator	60	16-Dec-15	14-Mar-16	60
2-W.05.02.01	ESM4140	Fabrication Support - BS schielding wall	60	16-Dec-15	14-Mar-16	60
2-W.05.02.01	ESM4110	Delivery - BS collimator	1	15-Mar-16	15-Mar-16	60
2-W.05.02.01	ESM4150	Delivery - BS schielding wall	1	15-Mar-16	15-Mar-16	60
2-W.05.02.01	ESM4210	ESM Cold Aperture and Differential Pumping - Install & Assembly	20	16-Mar-16	12-Apr-16	60
2-W.09 SIX Beamline			0	08-Jun-16	08-Jun-16	60
2-W.09	SIX1410	SIX PDS Ready for Integration	0		08-Jun-16	60
2-W.09.02.01 Photon Delivery System			40	13-Apr-16	08-Jun-16	60
2-W.09.02.01	SIX4030	SIX Cold Aperture and Differential Pumping - Install & Assembly	20	13-Apr-16	10-May-16	60
2-W.09.02.01	SIX4031	SIX Cold Aperture and Differential Pumping - Test & Commissioning	20	11-May-16	08-Jun-16	60