

Activity ID	Activity Description	Orig Dur	Total Float	PTS	WP	Early Start	Early Finish	Resource ID	Budgeted Cost	FY08												FY09												FY10												FY11												FY12												
1.2.04.01 Detector Support and Integration																																																																						
01 MIE Funds																																																																						
9100241 XPP 2-D X-Ray Detector (BNL)																																																																						
XPP 05400	Detector Physicists Efforts FY08-Q1 & Q2	121		01	9100241	10/01/07A	03/31/08A	HIST_M&S, HIST_LBR	39,396.00	Detector Physicists Efforts FY08-Q1 & Q2																																																												
9110241 Detector Support and Integration																																																																						
BL 01070	July 2008 Detector Advisory Committee Review	2		01	9110241	05/05/08A	05/06/08A		0.00	July 2008 Detector Advisory Committee Review																																																												
BL 01080	January 2009 Detector Advisory Committee Review	0		01	9110241		12/19/08A		0.00	January 2009 Detector Advisory Committee Review																																																												
BL 01105	XPP Detector Management FY08	262		01	9110241	10/01/07A	09/30/08A	BL_SCI03, BL_TRVL, BL_PCG	73,206.76	XPP Detector Management FY08																																																												
BL 01110	XPP MOU Technical Addendum FY09	43		01	9110241	12/01/08A	01/30/09A		0.00	XPP MOU Technical Addendum FY09																																																												
BL 01115	XPP Detector Management FY09 - Q1 & Q2	118	614	01	9110241	10/01/08A	03/31/09	BL_TRVL, BL_SCI03	16,081.02	XPP Detector Management FY09 - Q1 & Q2																																																												
XPP 05410	Detector Physicists Efforts FY08-Q3 & Q4	131		01	9110241	04/01/08A	09/30/08A	SL_PHSS, HIST_LBR	34,594.91	Detector Physicists Efforts FY08-Q3 & Q4																																																												
XPP 05420	Detector Physicists Efforts Oct08	23		01	9110241	10/01/08A	10/31/08A	SL_PHSS, HIST_LBR	3,861.59	Detector Physicists Efforts Oct08																																																												
XPP 05425	Detector Physicists Efforts Rem FY09	118	126	01	9110241	11/03/08A	03/31/09	SL_PHSS	29,962.36	Detector Physicists Efforts Rem FY09																																																												
02 ARRA Funds																																																																						
9120241 Detector Support and Integration																																																																						
BL 01117	XPP Detector Management FY09 - Q3 & Q4	249	614	02	9120241	04/01/09	09/30/09	BL_TRVL, BL_SCI03	24,118.69	XPP Detector Management FY09 - Q3 & Q4																																																												
BL 01470	Assemble XPP Detector Head	10	81	02	9120241	09/28/09	10/09/09	BL_SCI03	12,454.96	Assemble XPP Detector Head																																																												
BL 01472	XPP Detector Functional Tests	20	81	02	9120241	10/12/09	11/06/09	BL_EE2, BL_ME1, BL_EE1	18,944.64	XPP Detector Functional Tests																																																												
BL 01474	XPP Detector Beam Test	30	81	02	9120241	11/09/09	01/05/10	BL_EE2, BL_SCI04, BL_SCI03	29,128.92	XPP Detector Beam Test																																																												
BL 01476	XPP Detector Calibration	20	81	02	9120241	01/06/10	02/02/10	BL_EE2, BL_SCI04, BL_SCI03	20,246.24	XPP Detector Calibration																																																												
BL 01480	XPP Completed - System Assembled & Tested at BNL	0	81	02	9120241		02/02/10		0.00	XPP Completed - System Assembled & Tested at BNL																																																												
BL 01490	XPP Detector System Delivery to SLAC	0	81	02	9120241		02/02/10		0.00	XPP Detector System Delivery to SLAC																																																												
BL 01500	XPP Detector System Commissioning at SLAC	60	406	02	9120241	05/13/10	08/04/10	BL_SCI03, BL_EE2, BL_SCI04	39,635.68	XPP Detector System Commissioning at SLAC																																																												
BL 01510	XPP Completed - System Commissioned at SLAC	0	406	02	9120241		08/04/10		0.00	XPP Completed - System Commissioned at SLAC																																																												
XPP 05427	Detector Physicists Efforts Rem FY09	131	126	02	9120241	04/01/09	09/30/09	SL_PHSS	29,962.36	Detector Physicists Efforts Rem FY09																																																												
XPP 05470	REQD: XPP 120Hz Camera Controls HW & SW	0	406	02	9120241		05/12/10		0.00	REQD: XPP 120Hz Camera Controls HW & SW																																																												
1.2.04.02 Detector Sensor																																																																						
01 MIE Funds																																																																						
9110242 Detector Sensor																																																																						
BL 01260	Further XPP array optimization	60		01	9110242	05/01/08A	09/30/08A	BL_MSHV, BL_EE1	95,950.64	Further XPP array optimization																																																												
BL 01261	Apr08 through Sep08 Plan Adjustment	21		01	9110242	09/01/08A	09/30/08A	HIST_M&S	102,123.00	Apr08 through Sep08 Plan Adjustment																																																												
BL 01270	XPP Design Finalized	0		01	9110242		12/19/08A		0.00	XPP Design Finalized																																																												
BL 01280	XPP Fab full size arrays	70	102	01	9110242	10/01/08A	04/06/09	BL_SCI01, BL_SCI04	67,302.40	XPP Fab full size arrays																																																												
BL 01290	XPP Pack. Completed - Fabricate Large area array	0	741	01	9110242		04/06/09		0.00	XPP Pack. Completed - Fabricate Large area array																																																												

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										FY08			FY09			FY10			FY11			FY12	
BL 01300	XPP Test Full size Array	60	102	01	9110242	04/07/09	06/29/09	BL_SCI04, BL_SCI02,	49,663.20														
BL 01310	XPP Test Full size Array Completed	0	681	01	9110242		06/29/09		0.00														
BL 01320	XPP Assemble final detector sensor	43	102	01	9110242	06/30/09	08/27/09	BL_EE2, BL_SCI04	12,297.08														
BL 01330	XPP Completed - Final pixel arrays available	0	102	01	9110242		08/27/09		0.00														
1.2.04.03 Detector Application Specific Integrated Circuit																							
01 MIE Funds																							
9110243 Detector Application Specific Integrated Circuit																							
BL 01360	XPP ASIC Fabricate first article	49		01	9110243	04/23/08A	07/15/08A	BL_EE1, BL_PDOC2	0.00														
BL 01361	Apr08 through Sep08 Plan Adjustment	21		01	9110243	09/01/08A	09/30/08A	HIST_M&S	39,964.07														
BL 01370	XPP ASIC First article completed	0		01	9110243		07/15/08A		0.00														
BL 01400	XPP Readout ASIC Testing	20		01	9110243	07/16/08A	02/06/09A	BL_EE2, BL_MSHV	151,662.40														
BL 01410	XPP Readout ASIC 2 Design	63	145	01	9110243	01/15/09A	04/08/09		0.00														
BL 01415	XPP Readout ASIC 2 Fabrication	40	145	01	9110243	04/09/09	06/03/09		0.00														
BL 01417	XPP Readout ASIC 2 Testing	18	145	01	9110243	06/04/09	06/29/09	BL_EE1, BL_ME1, BL_MSMA	54,201.36														
BL 01420	XPP ASIC 2 Completed	0	145	01	9110243		06/29/09		0.00														
1.2.04.04 Detector Controls, Electronics and DAQ																							
01 MIE Funds																							
9110244 Detector Controls, Electronics and DAQ																							
BL 01425	Apr08 through Sep08 Plan Adjustment	21		01	9110244	09/01/08A	09/30/08A	HIST_M&S	136,348.68														
BL 01430	XPP Packaging- Design& Fab Detector Housing	80	253	01	9110244	11/15/08A	05/20/09	BL_MT1	17,633.60														
BL 01450	XPP Completed - Package design	0	181	01	9110244		08/28/09		0.00														
BL 01460	XPP Prepare Documentation	125	512	01	9110244	08/31/09	03/09/10		0.00														
BL 01465	XPP Test PCBs	30		01	9110244	01/05/09A	02/13/09A	BL_EE1, BL_ED1	38,022.00														
BL 01505	XPP PCBs Completed	0		01	9110244		02/13/09A		0.00														
BL 01515	XPP Build Test System	60	81	01	9110244	02/14/09A	05/08/09	BL_CPSCT, BL_ME1, BL_MSMA	87,129.60														
BL 01520	XPP Design and Fabrication of PCBs	80	81	01	9110244	05/11/09	08/28/09	BL_EE2, BL_ED1	81,813.66														
BL 01525	XPP Mechanical Housing Design and Fab	20	81	01	9110244	08/31/09	09/25/09	BL_MT1	17,633.60														
BL 01530	XPP Completed - Package design	0	81	01	9110244		09/25/09		0.00														
BL 01950	XPP FPGA Coding	118	93	01	9110244	02/16/09A	07/29/09	BL_EE2, BL_ME1	74,196.00														
BL 01955	XPP Test with RCE	30	93	01	9110244	07/30/09	09/09/09	BL_EE2, BL_ME1	22,258.80														
BL 01960	XPP DAQ and Controls Complete	0	93	01	9110244		09/09/09		0.00														

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1.4.03.01 Detector Support and Integration																			
01 MIE Funds																			
9110431 Detector Support and Integration																			
BL 01990	XCS Detector Management FY09	173	116	01	9110431	02/02/09A	03/31/09	BL_SCI03	3,381.99										
BL 02110	Start XCS Detector MOU	0		01	9110431	01/05/09A			0.00										
02 ARRA Funds																			
9120431 Detector Support and Integration																			
BL 01090	July 2009 Detector Advisory Committee Review	0	1	02	9120431		06/11/09		0.00										
BL 01100	January 2010 Detector Advisory Committee Review	0	16	02	9120431		11/24/09		0.00										
BL 01130	Closeout Review	0	107	02	9120431		10/13/11		0.00										
BL 01820	XCS Prepare Documentation	60	353	02	9120431	03/03/10	05/25/10	BL_SCI03	0.00										
BL 01992	XCS Detector Management FY09	131	116	02	9120431	04/01/09	09/30/09	BL_SCI03	27,180.23										
BL 02028	XCS MOU Technical Addendum FY10	43	116	02	9120431	08/03/09*	09/30/09		0.00										
BL 02030	XCS Detector Management FY10	249	116	02	9120431	10/01/09	09/30/10	BL_SCI03, BL_TRVL	43,848.80										
BL 02058	XCS MOU Technical Addendum FY11	43	117	02	9120431	08/02/10*	09/29/10		0.00										
BL 02060	XCS Detector Management FY11	249	116	02	9120431	10/01/10	09/30/11	BL_SCI03, BL_TRVL	37,329.52										
BL 02178	Assemble XCS Detector Head	10	52	02	9120431	06/24/11	07/07/11	BL_SCI03, BL_MT1, BL_EE2	27,161.20										
BL 02185	XCS Detector Functional Tests	20	52	02	9120431	07/08/11	08/04/11	BL_EE1, BL_ME1, BL_SCI04, BL_EE2	21,371.52										
BL 02190	XCS Detector Beam Tests	30	52	02	9120431	08/05/11	09/15/11	BL_SCI04, BL_SCI03, BL_EE2	30,413.04										
BL 02195	XCS Detector Calibration	20	52	02	9120431	09/16/11	10/13/11	BL_EE1, BL_SCI01, BL_SCI03	23,190.72										
BL 02197	XCS Completed - System Assembled & Tested at BNL	0	52	02	9120431		10/13/11		0.00										
BL 02200	XCS Detector System Delivery to SLAC	0	52	02	9120431		10/13/11		0.00										
BL 02205	XCS Detector System Commissioning at SLAC	40	67	02	9120431	10/14/11	12/15/11	BL_SCI04, BL_SCI03, BL_EE2	41,380.48										
BL 02210	XCS Completed - System Commissioned SLAC	0	67	02	9120431		12/15/11		0.00										
XCS1403000	XCS Detector Physicists Efforts FY10	249	126	02	9120431	10/01/09	09/30/10	SL_PHSS	67,767.84										
XCS1403010	XCS Detector Physicists Efforts FY11	249	126	02	9120431	10/01/10	09/30/11	SL_PHSS	70,476.96										
1.4.03.02 Detector Sensor																			
01 MIE Funds																			
9110432 Detector Sensor																			
BL 01570	XCS Design masks for test pixels - Phase 1	120	52	01	9110432	02/02/09A	03/31/09	BL_SCI04, BL_SCI02, BL_MT1	70,154.90										
02 ARRA Funds																			
9120432 Detector Sensor																			
BL 01572	XCS Design masks for test pixels - Phase 2	78	52	02	9120432	04/01/09	07/17/09	BL_SCI04, BL_SCI02, BL_MT1	116,268.80										
BL 01580	XCS Completed - Mask designs for test pixel	0	352	02	9120432		07/17/09		0.00										
BL 01590	XCS Fabricate small test pixel arrays	200	52	02	9120432	07/20/09	05/11/10	BL_SCI04, BL_SCI03,	362,827.36										

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BL 01980	XCS DAQ and Controls Completed	0	352	02	9120434		04/13/10		0.00															

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