

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023
<b>COSTED BL13-014 12 GeV CR12-040,13-001D,03,08,09,02,04,05,12,11,06,14</b>																											
<b>1.M MILESTONES</b>											<b>30-Jun-13, COSTED BL13-014 12 GeV CR12-040,13-001D,03,08,09,02,04,05,12,11,06,14</b>																
<b>1.01 LEVEL 1 MILESTONES</b>											<b>30-Jun-15, 1.M MILESTONES</b>																
<b>1.01 LEVEL 1 MILESTONES</b>											<b>30-Jun-15, 1.01 LEVEL 1 MILESTONES</b>																
1-1M	CD-0 (Approve Mission Need)	31-Mar-04 A	30-Jun-15	0.00	\$0	0.00	\$0	\$0	\$0	62.20																	
1-2M	CD-1 (Approve Preliminary Baseline Range)		15-Feb-06 A	0.00	\$0	0.00	\$0	\$0	\$0																		
1-5M	CD-2 (Approve Performance Baseline)		02-Jan-08*	0.00	\$0	0.00	\$0	\$0	\$0	0.00																	
1-6M	CD-3 (Approve Start of Constr)		30-Sep-08*	0.00	\$0	0.00	\$0	\$0	\$0	0.00																	
1-7M	CD-4A (Approve Accelerator Completion & Start of Operations)		30-Dec-14*	0.00	\$0	0.00	\$0	\$0	\$0	0.00																	
1-8M	CD-4B (Approve Proj Compltn & Start of Operations)		30-Jun-15*	0.00	\$0	0.00	\$0	\$0	\$0	0.00																	
<b>1.02A LEVEL 2 ACCELERATOR MILESTONES</b>											<b>02-Dec-13, 1.02A LEVEL 2 ACCELERATOR MILESTONES</b>																
2-01M	Klystron Mass Production Authorization	14-Jul-10*		0.00	\$0	0.00	\$0	\$0	\$0	24.80																	
2-02M	Start Accelerator Installation Shutdown (IPL)	14-May-12*		0.00	\$0	0.00	\$0	\$0	\$0	0.00																	
2-03M	Accelerator Commissioned		02-Dec-13*	0.00	\$0	0.00	\$0	\$0	\$0	5.80																	
<b>1.02H LEVEL 2 HALLS A, B &amp; C MILESTONES</b>											<b>31-Mar-15, 1.02H LEVEL 2 HALLS A, B &amp; C MILESTONES</b>																
2-04M	Design Report on Superconducting Magnets		02-Oct-06*	0.00	\$0	0.00	\$0	\$0	\$0	49.40																	
2-05M	Design Review on Superconducting Magnets		30-May-08*	0.00	\$0	0.00	\$0	\$0	\$0	8.60																	
2-06M	Award First Superconducting Magnet Contract		16-Mar-09*	0.00	\$0	0.00	\$0	\$0	\$0	19.60																	
2-07M	Start Installation for Existing Halls	14-May-12*		0.00	\$0	0.00	\$0	\$0	\$0	10.80																	
2-08M	Hall-A, B, & C Equipment Installation Completed		31-Mar-15*	0.00	\$0	0.00	\$0	\$0	\$0	0.00																	
2-09M	Hall-A Beam Commissioning Completed		10-Feb-14*	0.00	\$0	0.00	\$0	\$0	\$0	6.80																	
<b>1.02D LEVEL 2 HALL D MILESTONES</b>											<b>16-Jun-14, 1.02D LEVEL 2 HALL D MILESTONES</b>																
2-10M	Start Hall-D Installation	29-Nov-10*		0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
2-11M	Installation of Hall-D Solenoid Completed		20-Feb-13*	0.00	\$0	0.00	\$0	\$0	\$0	18.20																	
2-12M	Hall-D Equipment Installation Completed		25-Apr-14*	0.00	\$0	0.00	\$0	\$0	\$0	2.60																	
2-13M	Hall-D Beam Commissioning Completed		16-Jun-14*	0.00	\$0	0.00	\$0	\$0	\$0	2.60																	
<b>1.02C LEVEL 2 CIVIL MILESTONES</b>											<b>01-Nov-11, 1.02C LEVEL 2 CIVIL MILESTONES</b>																
2-14M	Design of Conventional Facilities Completed		04-Sep-08*	0.00	\$0	0.00	\$0	\$0	\$0	3.60																	
2-15M	Ready for Equipment-CHL Addition (RFE) (doesn't include Elect & Cooling Water Util Di...		12-Mar-10*	0.00	\$0	0.00	\$0	\$0	\$0	28.20																	
2-16M	Ready for Equipment - H-D (RFE)		24-Nov-10*	0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
2-17M	Accelerator Tunnel Extension Completed (existing tunnel)		01-Nov-11*	0.00	\$0	0.00	\$0	\$0	\$0	36.60																	
<b>1.02PM LEVEL 2 PROJECT MANAGEMENT MILESTONES-1</b>											<b>30-Jun-08, 1.02PM LEVEL 2 PROJECT MANAGEMENT MILESTONES-1</b>																
2-18M	Preliminary Hazard Assessment Submitted to DOE	29-Sep-05 A	30-Jun-08	0.00	\$0	0.00	\$0	\$0	\$0	409.40																	
2-19M	EA Completed		02-Oct-06*	0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
2-20M	Completion of Land Transfer		02-Oct-06*	0.00	\$0	0.00	\$0	\$0	\$0	36.80																	
2-21M	PEP Issued		02-Oct-06*	0.00	\$0	0.00	\$0	\$0	\$0	36.80																	
2-22M	OECM EVMS Contractor Certification REVIEW CompleteD		31-Jan-08*	0.00	\$0	0.00	\$0	\$0	\$0	0.00																	
2-23M	Accelerator Safety Envelope (ASE) Completed		30-Jun-08*	0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
2-24M	Safety Assessmnt Document (SAD) Completed		30-Jun-08*	0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
<b>1.02S LEVEL 2 STIMULUS MILESTONES</b>											<b>01-Oct-10, 1.02S LEVEL 2 STIMULUS MILESTONES</b>																
2-S01M	Award 4 Meter Dipole Magnet Subcontract	13-Jan-09*		0.00	\$0	0.00	\$0	\$0	\$0	23.40																	
2-S02M	Award Central Helium Liquifer 4.5K Coldbox Subcontract	08-Jan-09*		0.00	\$0	0.00	\$0	\$0	\$0	24.00																	
2-S03M	Award Quad Magnets Subcontracts	03-Aug-09*		0.00	\$0	0.00	\$0	\$0	\$0	-4.60																	
2-S04M	Award Cryomodules Spaceframes Subcontract	04-Aug-09*		0.00	\$0	0.00	\$0	\$0	\$0	3.80																	
2-S05M	Award Cryomodules Vacuum Vessels Subcontract	03-Nov-09*		0.00	\$0	0.00	\$0	\$0	\$0	3.40																	
2-S06M	Award End Can Subcontract	03-Feb-10*		0.00	\$0	0.00	\$0	\$0	\$0	-5.00																	
2-S07M	Award High-Voltage Cathode Power Supply Subcontract	08-Oct-09*		0.00	\$0	0.00	\$0	\$0	\$0	14.40																	
2-S08M	Award Central Helium Liquifer Compressors Subcontract	12-Jan-10*		0.00	\$0	0.00	\$0	\$0	\$0	6.20																	
2-S09M	Award Box Power Supply Subcontract	01-Oct-10*		0.00	\$0	0.00	\$0	\$0	\$0	-25.80																	
2-S10M	Award North & South Access Building Subcontract	01-Oct-09*		0.00	\$0	0.00	\$0	\$0	\$0	32.40																	
2-S11M	Award Final Stimulus Subcontract		30-Sep-10*	0.00	\$0	0.00	\$0	\$0	\$0	0.00																	
<b>1.03A LEVEL 3 ACCELERATOR MILESTONES</b>											<b>26-Jun-14, 1.03A LEVEL 3 ACCELERATOR MILESTONES</b>																
32-01M	Award Initial Major Acc contract	21-Apr-09*		0.00	\$0	0.00	\$0	\$0	\$0	-7.40																	
32-02M	Vendor Dsgn Review of 4K Coldbox		29-Jan-10*	0.00	\$0	0.00	\$0	\$0	\$0	0.00																	
32-03M	Start Accel Component Assy	18-Mar-10*		0.00	\$0	0.00	\$0	\$0	\$0	14.60																	
32-05M	Start Accel Beam Commssng		25-Oct-13	0.00	\$0	0.00	\$0	\$0	\$0	5.80																	
3A-01M	Start Linac Installn		01-Oct-09*	0.00	\$0	0.00	\$0	\$0	\$0	86.20																	
3A-02M	Start LLRF Installn		01-Oct-10*	0.00	\$0	0.00	\$0	\$0	\$0	32.20																	

█ Primary Baseline   
 █ Remaining Work   
 ◆ Baseline Milestone  
█ Actual Work   
 █ Critical Remaining Work   
 ◆ Milestone

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
3A-03M	Start Pwr (rf) Installtn	04-Jan-11*			0.00	\$0	0.00	\$0	\$0	52.40																		
3A-04M	Start 2nd Cryogenics Plant Commsng	03-Oct-11*			0.00	\$0	0.00	\$0	\$0	8.00																		
3A-07M	Start PSS Installtn	23-Jan-12*			0.00	\$0	0.00	\$0	\$0	1.20																		
3A-08M	Start MPS Installtn	19-Mar-12*			0.00	\$0	0.00	\$0	\$0	6.00																		
3A-09M	Start I&C/Sfty Installtn	23-Jan-12*			0.00	\$0	0.00	\$0	\$0	1.20																		
3A-10M	LLRF Installtn Comptd		15-Feb-13		0.00	\$0	0.00	\$0	\$0	29.00																		
3A-12M	Start H-D BL Installtn	14-May-12			0.00	\$0	0.00	\$0	\$0	63.80																		
3A-13M	Start West Arc Removl	14-May-12			0.00	\$0	0.00	\$0	\$0	40.00																		
3A-14M	Start East Arc Removl	14-May-12			0.00	\$0	0.00	\$0	\$0	40.00																		
3A-16M	Start H-A BL Removl	14-May-12			0.00	\$0	0.00	\$0	\$0	60.60																		
3A-17M	Start H-B BL Removl	14-May-12			0.00	\$0	0.00	\$0	\$0	58.00																		
3A-18M	Start H-C BL Removl	14-May-12			0.00	\$0	0.00	\$0	\$0	64.00																		
3A-19M	Start S/R Removl	14-May-12			0.00	\$0	0.00	\$0	\$0	61.20																		
3A-20M	Start Cryomodule Installtn	12-Aug-11*			0.00	\$0	0.00	\$0	\$0	16.60																		
3A-21M	Start Pwr (Mag) Installtn	13-Jun-11*			0.00	\$0	0.00	\$0	\$0	63.00																		
3A-22M	Start Trim Supply Installtn	14-May-12			0.00	\$0	0.00	\$0	\$0	17.40																		
3A-23M	Start Box Supply Installtn	12-Mar-13			0.00	\$0	0.00	\$0	\$0	22.00																		
3A-28M	H-A BL Removl Comptd		19-Oct-12		0.00	\$0	0.00	\$0	\$0	38.20																		
3A-29M	West Arc Removl Comptd		13-May-11		0.00	\$0	0.00	\$0	\$0	12.00																		
3A-30M	East Arc Removl Comptd		13-Aug-12		0.00	\$0	0.00	\$0	\$0	38.60																		
3A-31M	H-B BL Removl Comptd		02-Nov-12		0.00	\$0	0.00	\$0	\$0	36.40																		
3A-32M	H-C BL Removl Comptd		09-Nov-12		0.00	\$0	0.00	\$0	\$0	47.40																		
3A-33M	Start H-C BL Installtn	12-Nov-12			0.00	\$0	0.00	\$0	\$0	47.40																		
3A-34M	Start West Arc Installtn	13-May-11			0.00	\$0	0.00	\$0	\$0	12.00																		
3A-36M	Start East Arc Installtn	14-Aug-12			0.00	\$0	0.00	\$0	\$0	38.60																		
3A-37M	Start H-A BL Installtn	22-Oct-12			0.00	\$0	0.00	\$0	\$0	38.20																		
3A-38M	Start H-B BL Installtn	05-Nov-12			0.00	\$0	0.00	\$0	\$0	36.40																		
3A-39M	Box Supply Installtn Comptd		26-Jun-14		0.00	\$0	0.00	\$0	\$0	0.00																		
3A-40M	HPA Installtn Comptd		03-Apr-13		0.00	\$0	0.00	\$0	\$0	22.60																		
3A-41M	Pwr (rf) Installtn Comptd		03-Apr-13		0.00	\$0	0.00	\$0	\$0	22.60																		
3A-42M	MPS Installtn Comptd		15-May-13		0.00	\$0	0.00	\$0	\$0	16.60																		
3A-43M	H-A BL Installtn Comptd		28-Mar-13		0.00	\$0	0.00	\$0	\$0	35.20																		
3A-44M	H-B BL Installtn Comptd		20-Mar-13		0.00	\$0	0.00	\$0	\$0	36.40																		
3A-46M	H-C BL Installtn Comptd		28-Jan-13		0.00	\$0	0.00	\$0	\$0	43.60																		
3A-47M	Cryomodule Installtn Comptd		23-Aug-13*		0.00	\$0	0.00	\$0	\$0	1.00																		
3A-48M	Trim Supply Installtn Comptd		04-Sep-13		0.00	\$0	0.00	\$0	\$0	1.20																		
3A-49M	PSS Installtn Comptd		14-Jun-13		0.00	\$0	0.00	\$0	\$0	12.40																		
3A-52M	East arc Installtn Comptd		14-Feb-13		0.00	\$0	0.00	\$0	\$0	29.20																		
3A-53M	H-D BL Installtn Comptd		30-Jul-13		0.00	\$0	0.00	\$0	\$0	18.00																		
3A-54M	S/R Installtn Comptd		11-Jan-13		0.00	\$0	0.00	\$0	\$0	33.80																		
3A-56M	West arc Installtn Comptd		12-Mar-13		0.00	\$0	0.00	\$0	\$0	25.80																		
3A-57M	Accel Installtn Comptd Except for All Power Supplies		02-Oct-13		0.00	\$0	0.00	\$0	\$0	9.20																		
3A-58M	End of Long Accel Constr Down		13-Sep-13*		0.00	\$0	0.00	\$0	\$0	0.00																		
3A-59M	Test Lab Ready for Renovation		01-May-12*		0.00	\$0	0.00	\$0	\$0	0.00																		
<b>1.03C LEVEL 3 CIVIL MILESTONES</b>		<b>30-Nov-07</b>	<b>29-Sep-14</b>		<b>338.20</b>	<b>\$0</b>	<b>0.00</b>	<b>\$0</b>	<b>\$0</b>	<b>11.80</b>																		
3C-01M	Civil A-E Dsgns of H-D Complex & CHL Addition are Comptd.		30-Nov-07*		0.00	\$0	0.00	\$0	\$0	3.00																		
3C-02M	Civil Dsgn Work by Facilt's Management for the Accel projects (does not include CHL) is...		09-Jul-08*		0.00	\$0	0.00	\$0	\$0	3.20																		
3C-03M	Civil Constr Contract Award for P- 1 of the H-D Complex conventional Facilt's.		02-Feb-09*		0.00	\$0	0.00	\$0	\$0	12.40																		
3C-04M	Civil Constr Contract Award of the CHL Bldng Addition, Doesn't Include the Elect & Cooli...		16-Jan-09*		0.00	\$0	0.00	\$0	\$0	14.40																		
3C-06M	Civil Sitework & Utility Distrbtn Associated with P- 1 of the H-D complex Comptd.		28-May-10		0.00	\$0	0.00	\$0	\$0	227.00																		
3C-07M	Civil Constr Elect & Cooling Water Utility Distrbtn to Supprt CHL#2 Comptd.		27-May-11*		0.00	\$0	0.00	\$0	\$0	4.60																		
3C-08M	Civil Constr N&S Access Bldng Additions & BSW Service bldng Addition Comptd.		21-Feb-12*		0.00	\$0	0.00	\$0	\$0	9.80																		
3C-09M	Start Installtn, RFE of H-D Cryo Plant Bldng Comptd.		28-Feb-11*		0.00	\$0	0.00	\$0	\$0	17.40																		
3C-10M	Start Installtn, RFE of Tagger Area portion of the Underground Accel Tunnel Comptd.		30-Nov-11*		0.00	\$0	0.00	\$0	\$0	3.40																		
3C-11M	Civil Constr Electrical Distrbtn Upgrades at the N&S Access Bldngs & at the N&S Linac ...		18-Mar-11*		0.00	\$0	0.00	\$0	\$0	55.60																		
3C-12M	Conventional Facilt's Comptd		29-Sep-14		0.00	\$0	0.00	\$0	\$0	11.80																		
3C-13M	Blue Crab End of Occupation		30-Aug-13*		0.00	\$0	0.00	\$0	\$0	0.00																		

█ Primary Baseline   
 █ Remaining Work   
 ◆ Baseline Milestone  
█ Actual Work   
 █ Critical Remaining Work   
 ◆ Milestone



Main project schedule table with columns for Activity ID, Activity Name, Start, Finish, Original Duration, Budgeted Labor Cost, Budgeted Labor Units, Budgeted Material Cost, Budgeted Total Cost, Budgeted Nonlabor Cost, Total Float, and fiscal years from FY2007 to FY2022. The table includes sections for Level 3 Physics Milestones, Level 3 Review Milestones, Level 4 Accelerator Milestones, Level 4 Physics Milestones, Level 9 Funding Available Milestones, and Conceptual & Advanced Conceptual Design Review Activities.

Legend for task types: Primary Baseline (yellow bar), Remaining Work (green bar), Actual Work (blue bar), Critical Remaining Work (red bar), Baseline Milestone (diamond), Milestone (square).

Activity ID, Activity Name, Start, Finish, Original Duration, Budgeted Labor Cost, Budgeted Labor Units, Budgeted Material Cost, Budgeted Total Cost, Budgeted Nonlabor Cost, Total Float, FY2007, FY2008, FY2009, FY2010, FY2011, FY2012, FY2013, FY2014, FY2015, FY2016, FY2017, FY2018, FY2019, FY2020, FY2021, FY2022, 023

Legend for activity types: Primary Baseline (purple), Remaining Work (green), Actual Work (blue), Critical Remaining Work (red), Baseline Milestone (purple diamond), Milestone (black diamond)



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023
1132033M	FY07-EC -R&D Plans & Initial Safety Assessment (DTCTR R&D)	02-Oct-06		0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132035	FY07-EC - Fullscale prototype design (DTCTR R&D)	02-Oct-06	31-Jan-07	15.80	\$3,402	8.28	\$0	\$3,402	\$0	0.20																	
1132045	FY07-EC - Manufacturing the box and fixtures for the full scale prototype (DTCTR R&D)	01-Feb-07	03-May-07	13.00	\$18,747	11.33	\$28,210	\$46,957	\$0	0.20																	
1132050	FY07-EC - Assembly & testing of the prototype (DTCTR R&D)	04-May-07	28-Sep-07	20.60	\$17,428	18.65	\$0	\$17,428	\$0	0.20																	
1132050M	FY07-EC -R&D Report (DTCTR R&D)		28-Sep-07	0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132054M	FY07-DC Plans & Initial Safety Assessment (DTCTR R&D)	02-Oct-06		0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132055	FY07-DC - Mechanical prototyping (DTCTR R&D)	02-Oct-06	06-Apr-07	25.00	\$30,104	29.98	\$28,209	\$58,313	\$0	0.20																	
1132060	FY07-DC - Electrical prototyping (DTCTR R&D)	02-Oct-06	06-Apr-07	25.00	\$16,729	9.27	\$16,924	\$33,653	\$0	0.20																	
1132065	FY07-DC - Testing & analysis of the prototype (DTCTR R&D)	09-Apr-07	28-Sep-07	24.40	\$16,061	9.25	\$0	\$16,061	\$0	0.20																	
1132065M	FY07-DC -R&D Report (DTCTR R&D)		28-Sep-07	0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132069M	FY07-FTOF -R&D Plans & Initial Safety Assessment (DTCTR R&D)	02-Oct-06		0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132070	FY07-FTOF - Building the prototype (DTCTR R&D)	02-Oct-06	28-Feb-07	19.60	\$0	0.00	\$16,926	\$16,926	\$0	0.20																	
1132075	FY07-FTOF - Testing and data analysis from the prototype (DTCTR R&D)	01-Mar-07	28-Sep-07	29.80	\$0	0.00	\$11,284	\$11,284	\$0	0.20																	
1132075M	FY07-FTOF -R&D Report (DTCTR R&D)		28-Sep-07	0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132079M	FY07-CTOF -R&D Plans & Initial Safety Assessment (DTCTR R&D)	02-Oct-06		0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132080	FY07-CTOF - Design of the prototype (DTCTR R&D)	02-Oct-06	19-Dec-06	11.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132085	FY07-CTOF - Building the prototype (DTCTR R&D)	20-Dec-06	03-Apr-07	13.40	\$0	0.00	\$0	\$0	\$0	0.20																	
1132090	FY07-CTOF - Testing of the prototype (DTCTR R&D)	04-Apr-07	28-Sep-07	25.00	\$0	0.00	\$0	\$15,890	\$15,890	0.20																	
1132090M	FY07-CTOF-R&D Report (DTCTR R&D)		28-Sep-07	0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132094M	FY07-SVT -R&D Plans & Initial Safety Assessment (DTCTR R&D)	02-Oct-06		0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132095	FY07-SVT - prototyping (DTCTR R&D)	02-Oct-06	06-Apr-07	25.00	\$38,722	26.71	\$25,389	\$64,111	\$0	0.20																	
1132100	FY07-SVT - testing of the prototype (DTCTR R&D)	09-Apr-07	28-Sep-07	24.40	\$49,540	32.16	\$11,288	\$60,828	\$0	0.20																	
1132100M	FY07-SVT -R&D Report (DTCTR R&D)		28-Sep-07	0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132800M	FY08-SVT -R&D Report (DETCTR R&D)		29-Sep-08	0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132805	FY08-EC - Fullscale Proto Dsgn (DETCTR R&D)	01-Oct-07	31-Jan-08	15.80	\$1,063	2.50	\$0	\$1,063	\$0	0.20																	
1132810	FY08-EC - Manufacturing Box & Fixtures for Full Scale Proto (DETCTR R&D)	01-Feb-08	02-May-08	13.00	\$4,140	2.50	\$8,699	\$12,839	\$0	0.20																	
1132815	FY08-EC - Assy & Testing of prototype (DETCTR R&D)	05-May-08	29-Sep-08	20.60	\$6,743	6.50	\$0	\$6,743	\$0	0.20																	
1132820	FY08-DC - Mech prototyping (DETCTR R&D)	01-Oct-07	07-Apr-08	25.00	\$8,858	9.00	\$8,699	\$17,557	\$0	0.20																	
1132825	FY08-DC - Elect Prototyping (DETCTR R&D)	01-Oct-07	07-Apr-08	25.00	\$5,308	3.00	\$5,221	\$10,529	\$0	0.20																	
1132827M	FY08-HTCC -R&D Plans & Initl Sfty Assessmnt (DETCTR R&D)	01-Oct-07		0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132829	FY08-HTCC - Testing of Proto (DETCTR R&D)	01-Oct-07	04-Jan-08	12.20	\$1,349	2.80	\$0	\$1,349	\$0	0.20																	
1132830	FY08-DC - Testing & Analysis of Proto (DETCTR R&D)	08-Apr-08	29-Sep-08	24.40	\$5,308	3.00	\$0	\$5,308	\$0	0.20																	
1132831M	FY08-HTCC -R&D Report (DETCTR R&D)		29-Sep-08	0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132834M	FY08-EC -R&D Plans & Initl Sfty Assessmnt (DETCTR R&D)	01-Oct-07		0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132835	FY08-FTOF - Fab Proto (DETCTR R&D)	01-Oct-07	28-Feb-08	19.60	\$0	0.00	\$5,221	\$5,221	\$0	0.20																	
1132840	FY08-FTOF - Testing & Data Analysis from Proto (DETCTR R&D)	29-Feb-08	29-Sep-08	29.80	\$0	0.00	\$3,478	\$3,478	\$0	0.20																	
1132841	FY08-HTCC - Analysis of Proto (DETCTR R&D)	07-Jan-08	29-Sep-08	37.20	\$1,063	2.50	\$0	\$1,063	\$0	0.20																	
1132845	FY08-CTOF - Dsgn of Proto (DETCTR R&D)	01-Oct-07	18-Dec-07	11.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132850	FY08-CTOF - Fab Proto (DETCTR R&D)	19-Dec-07	02-Apr-08	13.40	\$0	0.00	\$0	\$0	\$0	0.20																	
1132851M	FY08-EC -R&D Report (DETCTR R&D)		29-Sep-08	0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132854M	FY08-DC Plans & Initl Sfty Assessmnt (DETCTR R&D)	01-Oct-07		0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132855	FY08-CTOF - Testing of Proto (DETCTR R&D)	03-Apr-08	29-Sep-08	25.00	\$0	0.00	\$0	\$5,160	\$5,160	0.20																	
1132860	FY08-SVT - Prototyping (DETCTR R&D)	01-Oct-07	07-Apr-08	25.00	\$10,955	8.00	\$7,801	\$18,756	\$0	0.20																	
1132865	FY08-SVT - Testing of Proto (DETCTR R&D)	08-Apr-08	29-Sep-08	24.40	\$15,189	9.70	\$3,478	\$18,666	\$0	0.20																	
1132865M	FY08-DC -R&D Report (DETCTR R&D)		29-Sep-08	0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132869M	FY08-FTOF -R&D Plans & Initl Sfty Assessmnt (DETCTR R&D)	01-Oct-07		0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132875M	FY08-FTOF -R&D Report (DETCTR R&D)		29-Sep-08	0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132879M	FY08-CTOF -R&D Plans & Initl Sfty Assessmnt (DETCTR R&D)	01-Oct-07		0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132890M	FY08-CTOF-R&D Report (DETCTR R&D)		29-Sep-08	0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132894M	FY08-SVT -R&D Plans & Initl Sfty Assessmnt (DETCTR R&D)	01-Oct-07		0.00	\$0	0.00	\$0	\$0	\$0	0.20																	
1132895	FY08-DC - Prototype Testing & Data Analysis (DETCTR R&D)	01-Oct-07	12-May-08	30.00	\$18,352	41.20	\$0	\$18,352	\$0	11.20																	
1132897	FY08-SVT - Prototype Testing & Data Analysis (DETCTR R&D)	01-Oct-07	12-May-08	30.00	\$26,563	55.60	\$0	\$26,563	\$0	19.60																	
1132900	SVT Readout (DETCTR R&D)	01-Apr-08	30-Sep-08	25.60	\$23,348	12.00	\$50,000	\$78,348	\$5,000	0.00																	
1132905	CTOF PMT's & Mag Sheild Tests (DETCTR R&D)	01-Apr-08	30-Sep-08	25.60	\$19,926	8.00	\$18,000	\$37,926	\$0	0.00																	
1.1.3.5 BEAMLINE		02-Oct-06	27-Jun-08	86.00	\$74,262	72.40	\$0	\$78,392	\$4,130	4.60																	
1135010	BL - Conduct rates studies and beam line optimization at HTCC (BEAMLINE)	02-Oct-06	06-Apr-07	25.00	\$15,593	22.65	\$0	\$17,658	\$2,065	40.60																	
1135015	BL - Conduct rates studies and optimization of the beam line at FDC (BEAMLINE)	02-Oct-06	10-May-07	29.80	\$15,593	22.65	\$0	\$17,658	\$2,065	35.80																	

Primary Baseline Remaining Work Baseline Milestone  
Actual Work Critical Remaining Work Milestone





Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
1155030	Check Current Sensitivity of Active Collimator Electrc's (BL)	01-Oct-07	03-Jan-08	12.00	\$0	18.00	\$0	\$0	\$0	29.20																		
<b>1.1.7 R&amp;D PROJECT MANAGEMENT</b>											1.1.7 R&D PROJECT MANAGEMENT																	
117000LOE	FY07 R&D Project Management	02-Oct-06	30-Sep-07	99.00	\$348,789	159.82	\$0	\$348,789	\$0	0.00																		
117908LOE	FY08 R&D Project Management	02-Oct-06	30-Sep-08	99.00	\$184,299	85.90	\$0	\$184,299	\$0	0.00																		
<b>1.2 PED</b>											1.2 PED																	
<b>1.2.1 ACCELERATOR SYSTEMS</b>											1.2.1 ACCELERATOR SYSTEMS																	
<b>1.2.1.1 CRYOMODULES</b>											1.2.1.1 CRYOMODULES																	
1211005M5	FY07 Internal Intermediate Design and Safety Review	02-Oct-06	29-Sep-09	148.40	\$564,190	264.66	\$0	\$700,853	\$136,666	0.20																		
1211020M	FY09 Cavity String Pre-Construction Dsgn & Sfty Review for CM		25-Jun-07	0.00	\$0	0.00	\$0	\$0	\$0	63.00																		
1211020M10	FY09 Cryomodule Pre-construction Dsgn & Sfty Review for CM		28-Apr-09	0.00	\$0	0.00	\$0	\$0	\$0	21.60																		
1211020M15	FY09 Cryomodule Misc Pre-construction Dsgn & Sfty Review for CM		29-Sep-09	0.00	\$0	0.00	\$0	\$0	\$0	-4.80																		
1211020M5	FY09 Space Frame Pre-construction Dsgn & Sfty Review for CM		29-Sep-09	0.00	\$0	0.00	\$0	\$0	\$0	0.20																		
<b>1.2.1.1.1 CAVITY STRING ASSEMBLY</b>											1.2.1.1.1 CAVITY STRING ASSEMBLY																	
<b>1.2.1.1.1.1 CAVITIES</b>											1.2.1.1.1.1 CAVITIES																	
121111005	FY08 Final Dsgn Cavity	15-Aug-07	18-Sep-09	103.90	\$72,797	32.61	\$0	\$78,430	\$5,633	1.60																		
121111010M	FY08 Final Dsgn Comptd for Cavity	12-Nov-07	10-Jun-08	28.00	\$19,832	8.00	\$0	\$19,832	\$0	7.20																		
<b>1.2.1.1.1.3 FUNDAMENTAL POWER COUPLER</b>											1.2.1.1.1.3 FUNDAMENTAL POWER COUPLER																	
121113005	FY08 Final Dsgn FPC	13-Mar-08	29-Sep-08	28.00	\$20,665	10.00	\$0	\$20,665	\$0	46.00																		
121113010M	FY08 Final Dsgn Comptd for FPC	13-Mar-08	29-Sep-08	28.00	\$20,665	10.00	\$0	\$20,665	\$0	46.00																		
<b>1.2.1.1.1.4 MISC. CAVITY STRING COMPONENTS</b>											1.2.1.1.1.4 MISC. CAVITY STRING COMPONENTS																	
121114005	Final Dsgn, Misc Cavity String Components	04-Mar-09	18-Sep-09	28.00	\$4,306	2.00	\$0	\$4,306	\$0	1.60																		
121114010M	FY09 Final Dsgn Comptd for Misc Cavity String Components	04-Mar-09	18-Sep-09	28.00	\$4,306	2.00	\$0	\$4,306	\$0	1.60																		
<b>1.2.1.1.1.5 HOM/FIELD PROBES</b>											1.2.1.1.1.5 HOM/FIELD PROBES																	
121115005	Final Dsgn HOM/Field Probes	01-Oct-07	28-Apr-08	28.00	\$17,975	8.00	\$0	\$17,975	\$0	71.20																		
121115010M	FY08 Final Dsgn Comptd for HOM/Field Probes	01-Oct-07	28-Apr-08	28.00	\$17,975	8.00	\$0	\$17,975	\$0	71.20																		
<b>1.2.1.1.1.6 HELIUM VESSELS</b>											1.2.1.1.1.6 HELIUM VESSELS																	
121116005	Design Helium Headers Preliminary (HELIUM VESSLS)	15-Aug-07	28-Apr-09	83.90	\$10,019	4.61	\$0	\$15,652	\$5,633	21.60																		
121116010	Design Helium Headers Initial Phase Final Design (HELIUM VESSLS)	15-Aug-07	25-Sep-07	5.60	\$3,923	1.83	\$0	\$3,923	\$0	19.40																		
121116015	Final Phase Final Dsgn, Helium Headers	26-Nov-08	15-Dec-08	2.40	\$1,790	0.78	\$0	\$1,790	\$0	1.40																		
121116020M	FY08 Final Dsgn Comptd for Helium Headers	01-Oct-08	28-Apr-09	28.00	\$4,306	2.00	\$0	\$9,939	\$5,633	21.60																		
<b>1.2.1.1.2 SPACE FRAME ASSEMBLY</b>											1.2.1.1.2 SPACE FRAME ASSEMBLY																	
<b>1.2.1.1.2.1 TUNER ASSEMBLY</b>											1.2.1.1.2.1 TUNER ASSEMBLY																	
121121005	Final Dsgn, Tuner	13-Mar-09	29-Sep-09	28.00	\$20,254	10.00	\$0	\$37,163	\$16,909	0.20																		
121121010M	FY08 Final Dsgn Comptd for Tuner	13-Mar-09	29-Sep-09	28.00	\$20,254	10.00	\$0	\$37,163	\$16,909	0.20																		
<b>1.2.1.1.2.2 HEADER ASSEMBLY, SUPPLY &amp; RETURN</b>											1.2.1.1.2.2 HEADER ASSEMBLY, SUPPLY & RETURN																	
121122005	Final Dsgn, Header Assy (Supply & Return)	01-Oct-08	28-Apr-09	28.00	\$6,060	3.00	\$0	\$6,060	\$0	21.60																		
121122010M	FY08 Final Dsgn Comptd for Header Assy (Supply & Return)	01-Oct-08	28-Apr-09	28.00	\$6,060	3.00	\$0	\$6,060	\$0	21.60																		
<b>1.2.1.1.2.3 MAGNETIC SHIELD ASSEMBLY</b>											1.2.1.1.2.3 MAGNETIC SHIELD ASSEMBLY																	
121123005	Final Dsgn, Magnetic Shield	01-Oct-08	23-Jul-09	40.00	\$12,672	5.68	\$0	\$23,949	\$11,276	9.60																		
121123010M	FY08 Final Dsgn Comptd for Magnetic Shield	01-Oct-08	23-Jul-09	40.00	\$12,672	5.68	\$0	\$23,949	\$11,276	9.60																		
131133010XD	Prcmnt Prep for Magnetic Shield	01-Oct-08	24-Dec-08	11.80	\$1,460	0.68	\$0	\$1,460	\$0	20.20																		
<b>1.2.1.1.2.4 THERMAL SHEILD ASSEMBLY, MLI BLANKETS 2&amp;</b>											1.2.1.1.2.4 THERMAL SHEILD ASSEMBLY, MLI BLANKETS 2&																	
121124005	Design Thermal Shield Preliminary (THRML SHLD)	06-Jul-07	28-Apr-09	89.50	\$18,009	9.22	\$0	\$18,009	\$0	21.60																		
121124010	Design Thermal Shield Initial Phase Final Design (THRML SHLD)	06-Jul-07	15-Aug-07	5.60	\$7,845	3.65	\$0	\$7,845	\$0	19.40																		
121124015	Dsgn Thermal Shield, Final Phase Final Dsgn	03-Jul-08	21-Jul-08	2.40	\$3,065	1.57	\$0	\$3,065	\$0	19.40																		
121124020M	FY08 Final Dsgn Comptd for Thermal Shield	01-Oct-08	28-Apr-09	28.00	\$7,099	4.00	\$0	\$7,099	\$0	21.60																		
<b>1.2.1.1.2.5 SEALS &amp; MISC. SPACE FRAME COMPONENTS</b>											1.2.1.1.2.5 SEALS & MISC. SPACE FRAME COMPONENTS																	
121125005	Design Seals & Misc Space Frame Preliminary (SEALS)	26-Mar-08	05-May-08	5.60	\$5,554	2.44	\$0	\$5,554	\$0	19.40																		
121125010	Design Seals & Misc Space Frame Initial Phase Final Design (SEALS)	16-Dec-08	08-Jan-09	2.40	\$2,456	1.04	\$0	\$2,456	\$0	1.40																		
121125015	Final Phase Final Dsgn, Seals & Misc Space Frame	13-Mar-09	29-Sep-09	28.00	\$23,980	11.00	\$0	\$23,980	\$0	0.20																		
121125020M	FY08 Final Dsgn Comptd for Seals & Misc Space Frame	13-Mar-09	29-Sep-09	28.00	\$23,980	11.00	\$0	\$23,980	\$0	0.20																		
<b>1.2.1.1.2.6 SPACE FRAME</b>											1.2.1.1.2.6 SPACE FRAME																	
121126005	Design Space Frame Preliminary (SPC FRM)	02-Oct-06	20-Aug-09	143.00	\$43,453	19.96	\$0	\$43,453	\$0	5.60																		
121126010	Design Space Frame Initial Phase Final Design (SPC FRM)	02-Oct-06	29-Jun-07	36.80	\$11,191	4.87	\$0	\$11,191	\$0	19.40																		
121126015	Final Phase Final Dsgn, Space Frame	13-Jun-08	01-Jul-08	2.40	\$4,761	2.09	\$0	\$4,761	\$0	19.40																		
121126020M	FY08 Final Dsgn Comptd for Space Frame	03-Feb-09	20-Aug-09	28.00	\$27,502	13.00	\$0	\$27,502	\$0	5.60																		
<b>1.2.1.1.3 CRYOMODULE ASSEMBLY</b>											1.2.1.1.3 CRYOMODULE ASSEMBLY																	
<b>1.2.1.1.3.1 ALIGNMENT FIDUCIALS</b>											1.2.1.1.3.1 ALIGNMENT FIDUCIALS																	
121131005	Design Alignment Fiducials Preliminary (ALGNMT FIDUCLS)	02-Jul-07	28-Apr-09	90.20	\$7,858	3.74	\$0	\$7,858	\$0	16.60																		
121131010	Design Alignment Fiducials Initial Phase Final Design (ALGNMT FIDUCLS)	02-Jul-07	06-Jul-07	0.70	\$2,463	1.22	\$0	\$2,463	\$0	19.40																		
121131010	Design Alignment Fiducials Initial Phase Final Design (ALGNMT FIDUCLS)	01-Jul-08	02-Jul-08	0.30	\$1,089	0.52	\$0	\$1,089	\$0	19.40																		

█ Primary Baseline   
 █ Remaining Work   
 █ Critical Remaining Work   
 ◆ Baseline Milestone   
 ◆ Milestone

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float												
											FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018
121131015	Final Phase Final Dsgn, Alignment Fiducials	01-Oct-08	28-Apr-09	28.00	\$4,306	2.00	\$0	\$4,306	\$0	16.60												
121131020M	FY08 Final Dsgn Comptd for Alignment Fiducials		28-Apr-09	0.00	\$0	0.00	\$0	\$0	\$0	16.60												
<b>1.2.1.1.3.2 VACUUM TANK ASSEMBLY</b>		<b>02-Oct-06</b>	<b>29-Sep-09</b>	<b>148.40</b>	<b>\$37,390</b>	<b>16.96</b>	<b>\$0</b>	<b>\$37,390</b>	<b>\$0</b>	<b>-4.80</b>												
121132005	Design Vacuum Tank Preliminary (VAC TNK ASSMBLY)	02-Oct-06	08-Nov-06	5.60	\$11,187	4.87	\$0	\$11,187	\$0	50.60												
121132010	Design Vacuum Tank Initial Phase Final Design (VAC TNK ASSMBLY)	13-Jun-08	01-Jul-08	2.40	\$4,761	2.09	\$0	\$4,761	\$0	19.40												
121132015	Final Phase Final Dsgn, Vac Tank	13-Mar-09	29-Sep-09	28.00	\$21,442	10.00	\$0	\$21,442	\$0	-4.80												
121132020M	FY08 Final Dsgn Comptd for Vac Tank		29-Sep-09	0.00	\$0	0.00	\$0	\$0	\$0	-4.80												
<b>1.2.1.1.3.3 END CAN ASSEMBLY</b>		<b>06-Jul-07</b>	<b>28-Apr-09</b>	<b>89.50</b>	<b>\$35,367</b>	<b>15.96</b>	<b>\$0</b>	<b>\$35,367</b>	<b>\$0</b>	<b>16.60</b>												
121133005	Design End Cans Preliminary (END CAN ASSMBLY)	06-Jul-07	15-Aug-07	5.60	\$10,765	4.87	\$0	\$10,765	\$0	19.40												
121133010	Design End Cans Initial Phase Final Design (END CAN ASSMBLY)	03-Jul-08	21-Jul-08	2.40	\$4,761	2.09	\$0	\$4,761	\$0	19.40												
121133015	Final Phase Final Dsgn, End Cans	01-Oct-08	28-Apr-09	28.00	\$19,841	9.00	\$0	\$19,841	\$0	16.60												
121133020M	FY08 Final Dsgn Comptd for End Cans		28-Apr-09	0.00	\$0	0.00	\$0	\$0	\$0	16.60												
<b>1.2.1.1.3.4 BEAM LINE ASSEMBLY WITHIN CM</b>		<b>15-Aug-07</b>	<b>29-Sep-09</b>	<b>105.30</b>	<b>\$27,949</b>	<b>13.35</b>	<b>\$0</b>	<b>\$27,949</b>	<b>\$11,276</b>	<b>-4.80</b>												
121134005	Design Transition Beamline Preliminary (BEAMLINE ASSMBLY)	15-Aug-07	25-Sep-07	5.60	\$6,386	3.05	\$0	\$6,386	\$0	19.40												
121134010	Design Transition Beamline Initial Phase Final Design (BEAMLINE ASSMBLY)	22-Jul-08	06-Aug-08	2.40	\$2,824	1.31	\$0	\$2,824	\$0	19.40												
121134015	Final Phase Final Dsgn, Transition BL in CM	13-Mar-09	29-Sep-09	28.00	\$18,740	9.00	\$0	\$30,016	\$11,276	-4.80												
121134020M	FY08 Final Dsgn Comptd for Transition BL in CM		29-Sep-09	0.00	\$0	0.00	\$0	\$0	\$0	-4.80												
<b>1.2.1.1.3.5 STANDS</b>		<b>02-Jul-07</b>	<b>25-Sep-09</b>	<b>111.20</b>	<b>\$7,858</b>	<b>3.74</b>	<b>\$0</b>	<b>\$7,858</b>	<b>\$0</b>	<b>-4.40</b>												
121135005	Design Stands Preliminary (STANDS)	02-Jul-07	02-Jul-07	0.14	\$2,463	1.22	\$0	\$2,463	\$0	19.96												
121135010	Design Stands Initial Phase Final Design (STANDS)	01-Jul-08	01-Jul-08	0.06	\$1,089	0.52	\$0	\$1,089	\$0	19.64												
121135015	Final Phase Final Dsgn, Stands	11-Mar-09	25-Sep-09	28.00	\$4,306	2.00	\$0	\$4,306	\$0	-4.40												
121135020M	FY08 Final Dsgn Comptd for Stands		25-Sep-09	0.00	\$0	0.00	\$0	\$0	\$0	-4.40												
<b>1.2.1.1.3.6 WIRING INCL HOM &amp; FP CABLES</b>		<b>15-Aug-07</b>	<b>29-Sep-09</b>	<b>105.30</b>	<b>\$25,880</b>	<b>12.61</b>	<b>\$0</b>	<b>\$31,513</b>	<b>\$5,633</b>	<b>-4.80</b>												
121136005	Design Wiring Preliminary (WIRING)	15-Aug-07	25-Sep-07	5.60	\$3,923	1.83	\$0	\$3,923	\$0	19.40												
121136010	Design Wiring Initial Phase Final Design (WIRING)	22-Jul-08	06-Aug-08	2.40	\$1,735	0.78	\$0	\$1,735	\$0	19.40												
121136015	Final Phase Final Dsgn, Wiring	13-Mar-09	29-Sep-09	28.00	\$20,223	10.00	\$0	\$25,856	\$5,633	-4.80												
121136020M	FY08 Final Dsgn Comptd for Wiring		29-Sep-09	0.00	\$0	0.00	\$0	\$0	\$0	-4.80												
<b>1.2.1.1.3.7 FEEDTHROUGHS INCL WARM/COLD HOM/FP</b>		<b>26-Mar-08</b>	<b>28-Apr-09</b>	<b>54.30</b>	<b>\$38,172</b>	<b>19.61</b>	<b>\$0</b>	<b>\$60,725</b>	<b>\$22,553</b>	<b>16.60</b>												
121137005	Design Feedthroughs Preliminary (FEEDTHRU)	26-Mar-08	05-May-08	5.60	\$4,048	1.83	\$0	\$4,048	\$0	19.40												
121137010	Design Feedthroughs Initial Phase Final Design (FEEDTHRU)	16-Dec-08	08-Jan-09	2.40	\$1,790	0.78	\$0	\$1,790	\$0	1.40												
121137015	Final Phase Final Dsgn, Feedthroughs	01-Oct-08	28-Apr-09	28.00	\$32,334	17.00	\$0	\$54,887	\$22,553	16.60												
121137020M	FY08 Final Dsgn Comptd for Feedthroughs		28-Apr-09	0.00	\$0	0.00	\$0	\$0	\$0	16.60												
<b>1.2.1.1.3.8 HOM LOADS</b>		<b>05-May-08</b>	<b>29-Sep-09</b>	<b>70.10</b>	<b>\$125,169</b>	<b>56.74</b>	<b>\$0</b>	<b>\$154,722</b>	<b>\$29,553</b>	<b>0.20</b>												
121138005	Design HOM Loads Preliminary (HOM LOADS)	05-May-08	13-Jun-08	5.60	\$2,541	1.22	\$0	\$2,541	\$0	19.40												
121138010	Design HOM Loads Initial Phase Final Design (HOM LOADS)	09-Jan-09	27-Jan-09	2.40	\$1,124	0.52	\$0	\$1,124	\$0	1.40												
121138015	Final Phase Final Dsgn, HOM Loads	13-Mar-09	29-Sep-09	28.00	\$38,089	17.00	\$0	\$60,642	\$22,553	-4.80												
121138020M	FY08 Final Dsgn Comptd for HOM Loads		29-Sep-09	0.00	\$0	0.00	\$0	\$0	\$0	-4.80												
121138025	Computational Analysis	16-Mar-09	23-Mar-09	1.00	\$2,570	1.00	\$0	\$2,570	\$0	14.90												
121138030	Fabricate Test Hardware	23-Mar-09	06-Apr-09	2.00	\$7,542	4.00	\$0	\$11,542	\$4,000	14.90												
121138035	Measure (First) HOM Damping in VTA	06-Apr-09	20-Apr-09	2.00	\$22,342	11.00	\$0	\$22,342	\$0	14.90												
121138040	Evaluate (First) Measurement results	20-Apr-09	27-Apr-09	1.00	\$11,824	4.00	\$0	\$11,824	\$0	14.90												
121138045	Modify Test Hardware	27-Apr-09	11-May-09	2.00	\$7,542	4.00	\$0	\$10,542	\$3,000	14.90												
121138050	Measure (Second) HOM Damping in VTA	11-May-09	26-May-09	2.00	\$22,342	11.00	\$0	\$22,342	\$0	14.90												
121138055	Evaluate (Second) Measurement results	26-May-09	02-Jun-09	1.00	\$6,683	2.00	\$0	\$6,683	\$0	14.90												
121138060	Document HOM damping results and final	02-Jun-09	16-Jun-09	2.00	\$2,570	1.00	\$0	\$2,570	\$0	14.90												
<b>1.2.1.1.4 INSTALLATION &amp; ASSEMBLY TOOLING</b>		<b>01-Oct-08</b>	<b>28-Apr-09</b>	<b>28.00</b>	<b>\$27,474</b>	<b>14.00</b>	<b>\$0</b>	<b>\$50,027</b>	<b>\$22,553</b>	<b>21.60</b>												
12114000	Final Dsgn of Installn & Assy Tooling	01-Oct-08	28-Apr-09	28.00	\$27,474	14.00	\$0	\$50,027	\$22,553	21.60												
12114005M	FY08 Final Dsgn Comptd for Installn & Assy Tooling		28-Apr-09	0.00	\$0	0.00	\$0	\$0	\$0	21.60												
<b>1.2.1.1.5 CRYOMODULE TEST INSTRUMENTATION &amp; INTERLOCKS</b>		<b>13-Mar-09</b>	<b>29-Sep-09</b>	<b>28.00</b>	<b>\$25,837</b>	<b>13.00</b>	<b>\$0</b>	<b>\$37,113</b>	<b>\$11,276</b>	<b>0.20</b>												
12115000	Final Dsgn of Instrumentn & Interlocks	13-Mar-09	29-Sep-09	28.00	\$25,837	13.00	\$0	\$37,113	\$11,276	0.20												
12115005M	FY08 Final Dsgn Comptd for Instrumentn & Interlocks		29-Sep-09	0.00	\$0	0.00	\$0	\$0	\$0	0.20												
<b>1.2.1.2 POWER SYSTEMS</b>		<b>02-Oct-06</b>	<b>28-Sep-09</b>	<b>148.20</b>	<b>\$1,682,197</b>	<b>763.19</b>	<b>\$194,123</b>	<b>\$1,974,388</b>	<b>\$98,068</b>	<b>347.20</b>												
<b>1.2.1.2.1 RF</b>		<b>02-Oct-06</b>	<b>28-Sep-09</b>	<b>148.20</b>	<b>\$1,391,800</b>	<b>633.54</b>	<b>\$160,935</b>	<b>\$1,620,752</b>	<b>\$68,017</b>	<b>347.20</b>												
<b>1.2.1.2.1.1 POWER</b>		<b>02-Oct-06</b>	<b>26-Mar-09</b>	<b>122.40</b>	<b>\$585,075</b>	<b>257.62</b>	<b>\$60,888</b>	<b>\$684,671</b>	<b>\$38,708</b>	<b>26.20</b>												
<b>1.2.1.2.1.1.1 KLYSTRONS</b>		<b>02-Oct-06</b>	<b>30-Sep-08</b>	<b>99.00</b>	<b>\$169,660</b>	<b>48.79</b>	<b>\$0</b>	<b>\$183,301</b>	<b>\$13,640</b>	<b>0.00</b>												
121211100	Start Klystron PED effort (KLYSTRONS)	02-Oct-06		0.00	\$0	0.00	\$0	\$0	\$0	0.00												
121211100	FY07 Project administration (KLYSTRONS)	02-Oct-06	28-Sep-07	49.40	\$38,132	9.57	\$0	\$38,132	\$0	0.00												
1212111010	Refine klystron specifications w/driver (KLYSTRONS)	02-Oct-06	02-Mar-07	20.00	\$6,579	3.05	\$0	\$6,579	\$0	1.60												
121211101	Specifications revision complete (KLYSTRONS)		02-Mar-07	0.00	\$0	0.00	\$0	\$0	\$0	1.60												

	Primary Baseline		Remaining Work		Baseline Milestone
	Actual Work		Critical Remaining Work		Milestone



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float		FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	
1212111020	Update budgetary pricing through vendor requests (KLYSTRONS)	16-Apr-07	11-May-07	4.00	\$649	0.26	\$0	\$4,775	\$4,126	1.60																		
121211102	Budgetary pricing received from vendors (KLYSTRONS)		11-May-07	0.00	\$0	0.00	\$0	\$0	\$0	1.60																		
1212111030	Internal design & safety review of klystron specifications (KLYSTRONS)	05-Mar-07	16-Mar-07	2.00	\$1,150	0.43	\$0	\$3,214	\$2,064	1.60																		
121211103	Preliminary internal design & safety review complete (KLYSTRONS)		16-Mar-07	0.00	\$0	0.00	\$0	\$0	\$0	1.60																		
1212111040	Revise preliminary klystron specifications per design & safety review (KLYSTRONS)	19-Mar-07	13-Apr-07	4.00	\$446	0.17	\$0	\$446	\$0	1.60																		
1212111045	Revise costbook based on new pricing (KLYSTRONS)	14-May-07	18-May-07	1.00	\$1,081	0.43	\$0	\$1,081	\$0	1.60																		
121211105	Klystron preliminary design complete (KLYSTRONS)		18-May-07	0.00	\$0	0.00	\$0	\$0	\$0	1.60																		
1212111055	Begin final design (FY07 continuing into FY08) (KLYSTRONS)	21-May-07	28-Sep-07	18.40	\$2,119	0.87	\$0	\$2,119	\$0	1.60																		
1212111070	Develop Final Klystron Spec's (Klystrons)	01-Oct-07	03-Jan-08	12.00	\$5,075	3.10	\$0	\$7,200	\$2,126	1.60																		
1212111075	Write Final Rqirmnts/Prmmt Packages (Klystrons)	04-Jan-08	31-Mar-08	12.00	\$2,988	1.20	\$0	\$5,650	\$2,662	1.60																		
121211108	Comp klystron PED 2008 (KLYSTRONS)		31-Mar-08	0.00	\$0	0.00	\$0	\$0	\$0	16.20																		
1212111085	Release Prcrmnt Package for Klystron Solicitation (Klystrons)	01-Apr-08	27-May-08	8.00	\$2,280	1.20	\$0	\$4,942	\$2,662	1.60																		
1212111100	Eng-Receive & Evaluate Klystron Proposals (Klystrons)	28-May-08	10-Jun-08	2.00	\$1,245	0.50	\$0	\$1,245	\$0	1.60																		
1212111110	Des-Receive & Evaluate Klystron Proposals (Klystrons)	11-Jun-08	24-Jun-08	2.00	\$1,782	1.00	\$0	\$1,782	\$0	1.60																		
1212111115	Release Best & Final for Klystrons (Klystrons)	07-Aug-08	04-Sep-08	4.00	\$1,245	0.50	\$0	\$1,245	\$0	1.60																		
1212111120	Final Klystron Evaluation (Klystrons)+	05-Sep-08	18-Sep-08	2.00	\$1,245	0.50	\$0	\$1,245	\$0	1.60																		
1212111170	Pre-Constrctn Dsgn Review (Klystrons)	01-Apr-08	07-Apr-08	1.00	\$0	0.00	\$0	\$0	\$0	16.20																		
121211190	FY08 Proj Admin (Klystrons)	01-Oct-07	30-Sep-08	49.60	\$103,646	26.00	\$0	\$103,646	\$0	0.00																		
<b>1.2.1.2.1.1.2 DC POWER</b>	<b>FY07 Begin DC Power PED efforts (DC POWER)</b>	<b>02-Oct-06</b>	<b>26-Mar-09</b>	<b>122.40</b>	<b>\$362,365</b>	<b>181.19</b>	<b>\$60,888</b>	<b>\$440,545</b>	<b>\$17,292</b>	<b>26.20</b>																		
12121200	Develop preliminary requirements for klystron HVPS (DC POWER)	02-Oct-06	20-Oct-06	3.00	\$2,299	0.87	\$0	\$2,299	\$0	32.00																		
121212005	Preliminary HVPS requirements document complete (DC POWER)		20-Oct-06	0.00	\$0	0.00	\$0	\$0	\$0	32.00																		
121212015	Develop aux power supply requirements preliminary designs (includes rack configuration...)	23-Oct-06	23-Feb-07	16.00	\$16,258	6.96	\$0	\$16,258	\$0	109.60																		
121212020	Develop preliminary layout/packaging designs (DC POWER)	26-Feb-07	17-Jul-07	20.00	\$7,959	3.92	\$0	\$11,054	\$3,095	109.60																		
121212025	Conduct internal design & safety review (DC POWER)	30-Oct-06	10-Nov-06	2.00	\$3,196	1.74	\$0	\$3,196	\$0	32.00																		
12121203	Internal design & safety review complete (DC POWER)		10-Nov-06	0.00	\$0	0.00	\$0	\$0	\$0	32.00																		
121212035	Revise requirements based on review outcome (DC POWER)	13-Nov-06	28-Nov-06	2.00	\$3,449	1.31	\$0	\$3,449	\$0	32.00																		
12121204	Requirements revised (DC POWER)		28-Nov-06	0.00	\$0	0.00	\$0	\$0	\$0	32.00																		
121212045	Request budgetary pricing for HVPS (DC POWER)	29-Nov-06	03-Jan-07	4.00	\$1,150	0.43	\$0	\$1,150	\$0	32.00																		
12121205	Budgetary pricing received (DC POWER)		03-Jan-07	0.00	\$0	0.00	\$0	\$0	\$0	32.00																		
121212055	Procure components for preliminary design tests (DC POWER)	11-Jan-07	25-Jan-07	2.00	\$2,047	1.31	\$23,740	\$25,787	\$0	32.00																		
12121206	Components received for preliminary design tests (DC POWER)		25-Jan-07	0.00	\$0	0.00	\$0	\$0	\$0	32.00																		
121212065	Build & test preliminary designs (fil/mod anode) (DC POWER)	20-Dec-06	23-Feb-07	8.00	\$32,472	16.18	\$0	\$35,567	\$3,095	32.00																		
121212070	Revise preliminary designs (DC POWER)	26-Feb-07	09-Mar-07	2.00	\$6,164	2.61	\$0	\$6,164	\$0	32.00																		
12121207	Preliminary designs revised (DC POWER)		09-Mar-07	0.00	\$0	0.00	\$0	\$0	\$0	32.00																		
121212080	Update costbook (DC POWER)	04-Jan-07	10-Jan-07	1.00	\$2,299	0.87	\$0	\$2,299	\$0	32.00																		
12121208	Costbook pricing updated (DC POWER)		10-Jan-07	0.00	\$0	0.00	\$0	\$0	\$0	32.00																		
12121209	FY08 Begin DC Pwr PED (DC POWER)	01-Oct-07		0.00	\$0	0.00	\$0	\$0	\$0	3.60																		
121212100	Dsgn & Test filament Pwr Supply (DC POWER)	01-Apr-08	24-Jun-08	12.00	\$49,553	26.00	\$9,287	\$58,840	\$0	26.20																		
121212105	Prep Documentation for Fab/Prmmt filament (DC POWER)	25-Jun-08	23-Jul-08	4.00	\$3,564	2.00	\$0	\$3,564	\$0	28.60																		
121212110	Dsgn & Test Mods anode Pwr Supply (DC POWER)	28-May-08	20-Aug-08	12.00	\$53,908	27.00	\$9,287	\$63,195	\$0	28.60																		
121212115	FY08 Prep Documentation for Fab/Prmmt: Mods anode (DC POWER)	21-Aug-08	30-Sep-08	5.60	\$4,990	2.80	\$0	\$4,990	\$0	28.60																		
12121211	FY09 Prep Documentation for Fab/Prmmt: Mods anode (DC POWER)	01-Oct-08	02-Oct-08	0.40	\$368	0.20	\$0	\$368	\$0	28.60																		
121212120	PROC Dsgn & Test Ion Pump Pwr Supply (DC POWER)	12-Sep-08	09-Jan-09	15.60	\$0	0.00	\$6,191	\$6,191	\$0	28.60																		
12121212	FY08 LAB Dsgn & Test Ion Pump Pwr Supply (DC POWER)	12-Sep-08	30-Sep-08	2.60	\$8,985	4.50	\$0	\$8,985	\$0	28.60																		
12121212	FY09 LAB Dsgn & Test Ion Pump Pwr Supply (DC POWER)	01-Oct-08	09-Jan-09	13.00	\$46,358	22.50	\$0	\$46,358	\$0	28.60																		
121212125	Prep Documentation for Fab/Prmmt: ION (DC POWER)	12-Jan-09	09-Feb-09	4.00	\$3,678	2.00	\$0	\$3,678	\$0	28.60																		
121212130	PROC Dsgn HPA/Rack Sys & Inj. Upgrade(DC POWER)	25-Jun-08	28-Jan-09	29.00	\$0	0.00	\$12,383	\$12,383	\$0	26.20																		
12121213	FY08 LAB/EXP Dsgn HPA/Rack Sys & Inj. Upgrade(DC POWER)	25-Jun-08	30-Sep-08	13.60	\$37,096	18.76	\$0	\$39,095	\$1,999	26.20																		
12121213	FY09 LAB/EXP Dsgn HPA/Rack Sys & Inj. Upgrade(DC POWER)	01-Oct-08	28-Jan-09	15.40	\$43,349	21.24	\$0	\$45,685	\$2,335	26.20																		
121212135	Prep Documentation for Fab/Prmmt (DC POWER)	29-Jan-09	26-Feb-09	4.00	\$17,634	8.00	\$0	\$17,634	\$0	26.20																		
121212140	Prep Final Rqirmnts Package for HV PS Prcrmnt (DC POWER)	27-Feb-09	26-Mar-09	4.00	\$9,547	4.00	\$0	\$12,848	\$3,301	26.20																		
12121214	Finish 2008 DC Pwr PED (DC POWER)+		26-Mar-09	0.00	\$0	0.00	\$0	\$0	\$0	26.20																		
12121290	FY08 Office Supprt for Document Prep (DC POWER)	01-Oct-07	30-Sep-08	49.60	\$6,043	6.00	\$0	\$9,510	\$3,467	0.00																		
<b>1.2.1.2.1.3 WAVEGUIDE COMPONENTS</b>	<b>Begin waveguide PED effort (WVGUIDE COMPON)</b>	<b>02-Oct-06</b>	<b>06-Nov-08</b>	<b>104.40</b>	<b>\$53,050</b>	<b>27.64</b>	<b>\$0</b>	<b>\$60,825</b>	<b>\$7,775</b>	<b>44.20</b>																		
12121300	Develop preliminary waveguide requirements and layout (WVGUIDE COMPON)	02-Oct-06	30-Mar-07	24.00	\$9,462	4.79	\$0	\$9,462	\$0	85.80																		

Legend for activity types and statuses:  
Primary Baseline (blue line)  
Actual Work (orange bar)  
Remaining Work (green bar)  
Critical Remaining Work (red bar)  
Baseline Milestone (blue diamond)  
Milestone (black diamond)





Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	
<b>1.2.1.2.1.2.2 RESONANCE CONTROL &amp; INTERLOCKS</b>																												
121212200	Start Preliminary Integrated System Design (RESON CNTL & INTRLCKS)	04-Jan-07	21-Sep-09	135.20	\$219,317	101.50	\$21,869	\$244,574	\$3,389	1.40																		
121212205	Prepare Preliminary Integrated System Design (RESON CNTL & INTRLCKS)	04-Jan-07	02-Mar-07	8.00	\$12,494	5.22	\$0	\$12,494	\$0	48.80																		
121212201	Preliminary Integrated System Design Complete (RESON CNTL & INTRLCKS)		02-Mar-07	0.00	\$0	0.00	\$0	\$0	\$0	48.80																		
1212122015	Develop Detailed Preliminary Integrated System Design specification (RESON CNTL & I...)	04-Jan-07	01-Feb-07	4.00	\$2,299	0.87	\$0	\$2,299	\$0	17.20																		
121212202	Interlock and Step Chassis (RESON CNTL & INTRLCKS)	02-Feb-07		0.00	\$0	0.00	\$0	\$0	\$0	17.20																		
1212122025	Develop Interlock Preliminary Design (RESON CNTL & INTRLCKS)	02-Feb-07	27-Apr-07	12.00	\$31,197	14.79	\$8,462	\$39,659	\$0	36.80																		
1212122030	Build Design Interlock validation unit (RESON CNTL & INTRLCKS)	30-Apr-07	11-May-07	2.00	\$0	0.00	\$0	\$0	\$0	36.80																		
1212122035	Interlock Validation Testing (RESON CNTL & INTRLCKS)	01-Aug-07	24-Oct-07	12.00	\$9,504	4.35	\$0	\$9,504	\$0	36.80																		
121212204	Interlock Validation Completed (RESON CNTL & INTRLCKS)		24-Oct-07	0.00	\$0	0.00	\$0	\$0	\$0	36.80																		
121212204	Start PZT Driver chassis design (RESON CNTL & INTRLCKS)	03-May-07		0.00	\$0	0.00	\$0	\$0	\$0	17.20																		
1212122050	Develop PZT Driver chassis Preliminary Design (RESON CNTL & INTRLCKS)	03-May-07	03-Aug-07	13.00	\$24,296	12.18	\$7,018	\$31,314	\$0	17.20																		
1212122055	Build PZT Driver chassis validation unit (RESON CNTL & INTRLCKS)	06-Aug-07	17-Aug-07	2.00	\$0	0.00	\$0	\$0	\$0	17.20																		
1212122060	Conduct PZT Driver chassis Validation testing (RESON CNTL & INTRLCKS)	20-Aug-07	12-Nov-07	12.00	\$9,569	4.35	\$0	\$9,569	\$0	17.20																		
121212206	PZT Driver chassis Validation test complete (RESON CNTL & INTRLCKS)		12-Nov-07	0.00	\$0	0.00	\$0	\$0	\$0	17.20																		
121212207	Start Cost & Schedule Update (RESON CNTL & INTRLCKS)	03-May-07		0.00	\$0	0.00	\$0	\$0	\$0	40.20																		
1212122075	Update PED Cost and Schedule (RESON CNTL & INTRLCKS)	03-May-07	16-May-07	2.00	\$2,162	0.87	\$0	\$2,162	\$0	40.20																		
1212122080	Update Construction Cost and Schedule (RESON CNTL & INTRLCKS)	17-May-07	31-May-07	2.00	\$2,162	0.87	\$0	\$2,162	\$0	40.20																		
121212208	Resonance Control Ready for Baseline (RESON CNTL & INTRLCKS)		31-May-07	0.00	\$0	0.00	\$0	\$0	\$0	40.20																		
1212122090	Resonance Cavity Tests P-1 (RESON CNTL & INTRLCKS)	13-Nov-07	30-Nov-07	2.40	\$6,327	3.00	\$0	\$6,823	\$495	17.20																		
121212209	FY08 LAB/EXP Resonance Cavity Tests P-2 (RESON CNTL & INTRLCKS)	24-Sep-08	30-Sep-08	1.00	\$564	0.24	\$0	\$659	\$95	17.20																		
121212209	FY08 LAB/EXP Resonance Cavity Tests P-2 (RESON CNTL & INTRLCKS)	01-Oct-08	30-Apr-09	28.40	\$16,517	6.86	\$0	\$19,314	\$2,798	17.20																		
1212122095	Cavity Interlock Tests P-1 (RESON CNTL & INTRLCKS)	25-Oct-07	30-Nov-07	5.00	\$11,747	5.67	\$0	\$11,747	\$0	36.80																		
121212209	FY08 Cavity Interlock Tests P-2 (RESON CNTL & INTRLCKS)	02-Sep-08	30-Sep-08	4.20	\$2,483	1.08	\$0	\$2,483	\$0	0.00																		
121212209	FY09 Cavity Interlock Tests P-2 (RESON CNTL & INTRLCKS)	01-Oct-08	25-Feb-09	19.20	\$11,710	4.92	\$0	\$11,710	\$0	1.40																		
1212122100	Resonance & Interlock Dsgn Assessmnt (RESON CNTL & INTRLCKS)	21-Jan-09	22-Jun-09	21.40	\$59,853	27.64	\$6,389	\$66,242	\$0	1.40																		
1212122105	Update Documentation and Procurement Prep (RESON CNTL & INTRLCKS)	20-May-09	21-Sep-09	17.20	\$10,003	6.00	\$0	\$10,003	\$0	1.40																		
121212211	Documentation Ready for Prcrmnt (RESON CNTL & INTRLCKS)+		21-Sep-09	0.00	\$0	0.00	\$0	\$0	\$0	1.40																		
1212122170	Pre-Constructn Dsgn Review (RESON CNTL & INTRLCKS)	01-May-09	29-May-09	4.00	\$6,430	2.60	\$0	\$6,430	\$0	17.20																		
<b>1.2.1.2.1.2.3 PACKAGE/INTERFACE</b>																												
121212300	Start Preliminary Integrated System Design (PKG/INTRFC)	15-Mar-07	23-Jun-09	113.20	\$83,997	45.21	\$17,268	\$103,391	\$2,126	13.80																		
1212123005	Develop Preliminary Integrated System Design (PKG/INTRFC)	15-Mar-07	09-May-07	8.00	\$4,055	2.17	\$3,100	\$7,155	\$0	64.20																		
121212301	Preliminary Integrated Design Complete (PKG/INTRFC)		09-May-07	0.00	\$0	0.00	\$0	\$0	\$0	64.20																		
121212301	Start Cost & Schedule Update (PKG/INTRFC)	15-Mar-07		0.00	\$0	0.00	\$0	\$0	\$0	60.20																		
1212123020	Update PED Cost and Schedule (PKG/INTRFC)	15-Mar-07	25-Apr-07	6.00	\$554	0.22	\$0	\$554	\$0	60.20																		
1212123025	Update Construction Cost and Schedule (PKG/INTRFC)	26-Apr-07	07-Jun-07	6.00	\$540	0.22	\$0	\$540	\$0	60.20																		
121212303	Racks-Interface Ready for Baseline (PKG/INTRFC)		07-Jun-07	0.00	\$0	0.00	\$0	\$0	\$0	60.20																		
1212123035	Dsgn Chassis Pwr Supply (PKG/INTRFC)	01-Oct-07	26-Oct-07	4.00	\$15,222	8.00	\$5,325	\$22,672	\$2,126	13.80																		
1212123040	Proc & Test PS P-1 (PKG/INTRFC)	29-Oct-07	30-Nov-07	4.60	\$9,358	5.06	\$0	\$9,358	\$0	13.80																		
121212304	Proc & Test PS P-2 (PKG/INTRFC)	22-Feb-08	15-May-08	12.00	\$10,985	5.94	\$4,262	\$15,247	\$0	13.80																		
1212123045	Final Dsgn Rack Layout with FC, Res & PS (PKG/INTRFC)	16-May-08	30-Sep-08	19.00	\$21,900	12.00	\$4,582	\$26,482	\$0	13.80																		
1212123050	Update Documentation and Procurement Prep(PKG/INTRFC)	01-Oct-08	23-Jun-09	35.80	\$15,683	9.00	\$0	\$15,683	\$0	13.80																		
121212305	Rack Documentation Ready for Prcrmnt (PKG/INTRFC)+		23-Jun-09	0.00	\$0	0.00	\$0	\$0	\$0	13.80																		
1212123170	Pre-Constructn Dsgn Review (PKG/INTRFC)	01-May-09	29-May-09	4.00	\$5,700	2.60	\$0	\$5,700	\$0	17.20																		
<b>1.2.1.2.1.2.4 CPU &amp; SOFTWARE</b>																												
121212400	Start Preliminary Integrated System Design (CPU & SW)100	01-Nov-06	29-May-09	127.00	\$31,453	13.05	\$4,386	\$36,839	\$1,000	17.20																		
1212124005	Develop Preliminary Integrated System Design (CPU & SW)100	01-Nov-06	06-Mar-07	16.00	\$8,630	3.48	\$0	\$8,630	\$0	38.20																		
121212401	Preliminary Integrated Design Complete (CPU & SW)100		06-Mar-07	0.00	\$0	0.00	\$0	\$0	\$0	38.20																		
1212124015	Refine Embedded IOC Detailed specification (CPU & SW)30	07-Mar-07	03-Apr-07	4.00	\$683	0.26	\$0	\$683	\$0	38.20																		
121212402	Start Embedded IOC Design (CPU & SW)100	02-Jan-07		0.00	\$0	0.00	\$0	\$0	\$0	34.60																		
1212124025	Develop Preliminary Embedded IOC Design (CPU & SW)85	02-Jan-07	28-Mar-07	12.00	\$10,039	4.44	\$4,386	\$14,425	\$0	34.60																		
121212403	Start Validation Unit Testing (CPU & SW)	29-Mar-07		0.00	\$0	0.00	\$0	\$0	\$0	34.60																		
1212124035	Conduct Validation Testing w Digital Board (CPU & SW)	06-Apr-07	05-Jun-07	8.40	\$9,939	4.00	\$0	\$10,939	\$1,000	33.40																		
121212404	Validation Tests Complete (CPU & SW)		05-Jun-07	0.00	\$0	0.00	\$0	\$0	\$0	33.40																		
121212404	Start Cost & Schedule Update (CPU & SW)100	03-Apr-07		0.00	\$0	0.00	\$0	\$0	\$0	34.40																		
1212124050	Update PED Cost and Schedule (CPU & SW)100	03-Apr-07	30-Apr-07	4.00	\$1,081	0.43	\$0	\$																				

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023
121212406	Controls Ready for Baseline (CPU & SW)100		29-May-07	0.00	\$0	0.00	\$0	\$0	\$0	34.40																	
1212124065	Program EPICS Interface P-1 (CPU&SW)	01-Oct-07	30-Nov-07	8.60	\$0	0.00	\$0	\$0	\$0	17.20																	
121212406	Program EPICS Interface P-2 (CPU&SW)	02-Jun-08	15-Aug-08	10.80	\$0	0.00	\$0	\$0	\$0	17.20																	
121212407	EPICS Ready for Test (CPU&SW)		15-Aug-08	0.00	\$0	0.00	\$0	\$0	\$0	17.20																	
1212124075	Cavity Tests & Modifications (CPU&SW)	15-Sep-08	01-Apr-09	26.60	\$0	0.00	\$0	\$0	\$0	17.20																	
121212408	CPU & Software tested on Cavity (CPU&SW)++		15-Apr-09	0.00	\$0	0.00	\$0	\$0	\$0	17.20																	
1212124170	Pre-Constrctn Dsgn Review (CPU&SW)++	01-May-09	29-May-09	4.00	\$0	0.00	\$0	\$0	\$0	17.20																	
<b>1.2.1.2.1.2.5 TEST STAND</b>											26-Sep-09: 1.2.1.2.1.2.5 TEST STAND																
121212500	Start Cost & Schedule Update (TEST STAND)	15-Mar-07	07-Jun-07	0.00	\$0	0.00	\$0	\$0	\$0	5.20																	
1212125005	Update PED Cost and Schedule (TEST STAND)	15-Mar-07	25-Apr-07	6.00	\$554	0.22	\$0	\$554	\$0	5.20																	
1212125010	Update Construction Cost and Schedule (TEST STAND)	26-Apr-07	07-Jun-07	6.00	\$540	0.22	\$0	\$540	\$0	5.20																	
121212501	Test Stand Ready for Baseline (TEST STAND)		07-Jun-07	0.00	\$0	0.00	\$0	\$0	\$0	5.20																	
1212125020	Dsgn & Fab RF Test Stand (Test STAND)-seeNotebook Entry	08-Apr-08	28-Sep-09	73.80	\$0	0.00	\$0	\$0	\$0	0.40																	
121212502	RF Test Stand Ready for Production Tests (TEST STAND)+		28-Sep-09	0.00	\$0	0.00	\$0	\$0	\$0	0.40																	
<b>1.2.1.2.1.2.6 MASTER OSCILLATOR</b>											14-Jun-07: 1.2.1.2.1.2.6 MASTER OSCILLATOR																
121212600	Start Cost & Schedule Update (MSTR OSC)	15-Mar-07	07-Jun-07	0.00	\$0	0.00	\$0	\$0	\$0	114.00																	
1212126005	Update PED Cost and Schedule (MSTR OSC)	15-Mar-07	25-Apr-07	6.00	\$554	0.22	\$0	\$554	\$0	114.00																	
1212126010	Update Construction Cost and Schedule (MSTR OSC)	26-Apr-07	07-Jun-07	6.00	\$540	0.22	\$0	\$540	\$0	114.00																	
121212601	MO Ready for Baseline (MSTR OSC)		07-Jun-07	0.00	\$0	0.00	\$0	\$0	\$0	114.00																	
1212126170	Pre-Constrctn Dsgn Review (MSTR OSC)	08-Jun-07	14-Jun-07	1.00	\$0	0.00	\$0	\$0	\$0	114.00																	
<b>1.2.1.2.1.2.7 HPA CONTROL</b>											03-Sep-09: 1.2.1.2.1.2.7 HPA CONTROL																
121212700	Start Preliminary Integrated System Design (HPA CNTRL)	01-Nov-06	01-Nov-06	0.00	\$0	0.00	\$0	\$0	\$0	48.60																	
1212127005	Develop Preliminary System Design (HPA CNTRL)	01-Nov-06	22-Jan-07	10.00	\$3,091	1.31	\$0	\$3,091	\$0	55.20																	
121212701	Preliminary Design Complete (HPA CNTRL)		22-Jan-07	0.00	\$0	0.00	\$0	\$0	\$0	55.20																	
1212127015	Develop Detailed specification P-1 (HPA CNTRL)	01-Oct-07	30-Nov-07	8.60	\$554	0.22	\$0	\$554	\$0	3.60																	
121212701	Develop Detailed specification P-2 (HPA CNTRL)	03-Dec-07	06-Feb-08	8.00	\$529	0.21	\$0	\$529	\$0	3.60																	
121212702	Start Cost & Schedule Update (HPA CNTRL)	03-Apr-07	03-Apr-07	0.00	\$0	0.00	\$0	\$0	\$0	37.40																	
1212127025	Update PED Cost and Schedule (HPA CNTRL)	03-Apr-07	30-Apr-07	4.00	\$1,081	0.43	\$0	\$1,081	\$0	37.40																	
1212127030	Update Construction Cost and Schedule (HPA CNTRL)	01-May-07	29-May-07	4.00	\$1,081	0.43	\$0	\$1,081	\$0	37.40																	
121212703	HPA Controls Ready for Baseline (HPA CNTRL)		29-May-07	0.00	\$0	0.00	\$0	\$0	\$0	37.40																	
1212127040	Dsgn HPA Control Board & Chassis (HPA CNTRL)	07-Feb-08	27-Aug-08	28.40	\$34,007	18.00	\$3,405	\$38,475	\$1,063	3.60																	
1212127045	PROC Test & Validate Dsgn (HPA CNTRL)	12-Sep-08	06-Feb-09	19.40	\$0	0.00	\$5,325	\$5,325	\$0	7.00																	
121212704	FY08 LAB/EXP Test & Validate Dsgn (HPA CNTRL)	12-Sep-08	30-Sep-08	2.60	\$5,775	2.95	\$0	\$5,917	\$142	3.60																	
121212704	FY09 LAB/EXP Test & Validate Dsgn (HPA CNTRL)	01-Oct-08	06-Feb-09	16.80	\$38,510	19.05	\$0	\$39,459	\$950	3.60																	
121212705	HPA Control Dsgn Tested (HPA CNTRL)		04-Mar-09	0.00	\$0	0.00	\$0	\$0	\$0	3.60																	
1212127055	Assess & Modify Dsgn (HPA CNTRL)	05-Mar-09	05-Aug-09	21.60	\$9,926	5.00	\$0	\$9,926	\$0	3.60																	
1212127060	Update Documentation and Procurement Prep (HPA CNTRL)	03-Jun-09	03-Sep-09	13.20	\$9,926	5.00	\$0	\$9,926	\$0	3.60																	
121212706	HPA control Documentation Ready for Prcrmt (HPA CNTRL)++		03-Sep-09	0.00	\$0	0.00	\$0	\$0	\$0	3.60																	
1212127170	Pre-Constrctn Dsgn Review (HPA CNTRL) +	01-May-09	29-May-09	4.00	\$6,430	2.60	\$0	\$6,430	\$0	17.20																	
<b>1.2.1.2.2 MAGNET POWER</b>											15-Dec-08: 1.2.1.2.2 MAGNET POWER																
<b>1.2.1.2.2.1 BOX SUPPLIES - PED</b>											04-Sep-08: 1.2.1.2.2.1 BOX SUPPLIES - PED																
121221000M	Begin Box PS PED (BOX SUP)	02-Oct-06	02-Oct-06	0.00	\$0	0.00	\$0	\$0	\$0	30.00																	
121221005	Conduct Spec & Cost Review of Other Projects (BOX SUP)	02-Oct-06	10-Nov-06	6.00	\$9,197	3.48	\$0	\$9,197	\$0	30.00																	
121221010	Travel _ Visit Other Projects (BOX SUP)	02-Oct-06	10-Nov-06	6.00	\$0	0.00	\$0	\$10,320	\$10,320	30.00																	
121221015	Refine/Update Preliminary Performance Requirements (BOX SUP)	13-Nov-06	12-Dec-06	4.00	\$2,299	0.87	\$0	\$2,299	\$0	30.00																	
121221020M	Preliminary Performance Requirements Update Complete (BOX SUP)		12-Dec-06	0.00	\$0	0.00	\$0	\$0	\$0	30.00																	
121221025M	Begin Preliminary Design Box Power Supplies (BOX SUP)	13-Dec-06	13-Dec-06	0.00	\$0	0.00	\$0	\$0	\$0	30.00																	
121221030	Develop Preliminary PS Design (BOX SUP)	13-Dec-06	01-Feb-07	6.00	\$25,246	11.31	\$0	\$25,246	\$0	30.00																	
121221035	Review & Revise PS Re-use Plan & Cost Estimate (BOX SUP)	02-Feb-07	02-Mar-07	4.00	\$6,933	3.83	\$0	\$6,933	\$0	30.00																	
121221040	Prepare & Conduct Preliminary Design & Safety Review (BOX SUP)	05-Mar-07	23-Mar-07	3.00	\$2,299	0.87	\$0	\$17,779	\$15,480	30.00																	
121221045M	Preliminary Design & Safety Review Complete (BOX SUP)		23-Mar-07	0.00	\$0	0.00	\$0	\$0	\$0	30.00																	
121221050	Update Cost and Labor Estimates (BOX SUP)	26-Mar-07	20-Apr-07	4.00	\$4,392	1.74	\$0	\$4,392	\$0	30.00																	
121221055	Update Resource Loaded Schedule (BOX SUP)	23-Apr-07	18-May-07	4.00	\$4,324	1.74	\$0	\$4,324	\$0	30.00																	
121221065	Investigate Potential Vendors to Develop Bidders list (BOX SUP)	21-May-07	18-Jun-07	4.00	\$2,162	0.87	\$0	\$2,162	\$0	31.40																	
121221070	Write Preliminary PS Design Document (BOX SUP)	19-Jun-07	01-Aug-07	6.20	\$5,610	2.61	\$0	\$5,610	\$0	31.40																	
121221075M	Preliminary PS Design Document Complete (BOX SUP)		01-Aug-07	0.00	\$0	0.00	\$0	\$0	\$0	31.40																	
121221085	Develop Dsgn & Specification for 1000 kW Box PS	01-Oct-07	03-Jan-08	12.00	\$8,185	3.50	\$0	\$8,185	\$0	23.20																	
121221090	Develop Dsgn & Specification for 600 kW Box PS	01-Oct-07	03-Jan-08	12.00	\$8,185	3.50	\$0	\$8,185	\$0	23.20																	

█ Primary Baseline █ Remaining Work ◆ Baseline Milestone  
█ Actual Work █ Critical Remaining Work ◆ Milestone





Table with columns: Activity ID, Activity Name, Start, Finish, Original Duration, Budgeted Labor Cost, Budgeted Labor Units, Budgeted Material Cost, Budgeted Total Cost, Budgeted Nonlabor Cost, Total Float, and Gantt chart bars for activities from FY2007 to FY2022.

Legend for activity types: Primary Baseline (green bar), Remaining Work (red bar), Actual Work (blue bar), Critical Remaining Work (orange bar), Baseline Milestone (green diamond), Milestone (orange diamond).



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023		
121411075	Detailed Dsgn of New 2m Septa (S/R Dipoles)	01-Oct-07	14-Apr-08	26.00	\$27,661	14.00	\$0	\$27,661	\$0	73.20																			
121411080	Detailed Dsgn of New 2m Narrow Pole Septa (S/R Dipoles)	01-Oct-07	16-Jul-08	39.00	\$46,976	24.00	\$0	\$46,976	\$0	60.20																			
121411081	Design New Dipole for Launch into ARC 10 (S/R Dipoles)	12-Jan-09	27-Feb-09	6.60	\$5,105	2.00	\$0	\$24,118	\$19,013	30.00																			
121411085	Top Leg Return Dsgns for Trapezoid Dipoles (S/R Dipoles)	05-Jan-09	03-Mar-09	8.00	\$12,119	6.00	\$0	\$12,119	\$0	29.60																			
121411090	FY08 Top Assy Dsgns for Modified S/R Dipoles (S/R Dipoles)	01-Apr-08	30-Sep-08	25.60	\$54,586	29.01	\$0	\$54,586	\$0	45.20																			
121411090a	FY09 Top Assy Dsgns for Modified S/R Dipoles (S/R Dipoles)	01-Oct-08	30-Oct-08	4.40	\$9,682	4.99	\$0	\$9,682	\$0	45.20																			
121411091	East Option B Top Assy Dsgns for Modified S/R Dipoles (S/R Dipoles)	01-Apr-09	30-Jun-09	12.80	\$15,314	6.00	\$0	\$45,194	\$29,880	12.80																			
121411092	West Option B Top Assy Dsgns for Modified S/R Dipoles (S/R Dipoles)	01-May-09	30-Jul-09	12.60	\$15,314	6.00	\$0	\$45,194	\$29,880	8.60																			
121411110M	All S/R Dipole & Septa Dsgns Comp (S/R DIPOLES)++		30-Jul-09	0.00	\$0	0.00	\$0	\$0	\$0	8.60																			
121411908L	FY08 Mngmnt of S/R PED Effort (S/R Dipoles)	01-Oct-07	30-Sep-08	49.60	\$97,940	31.00	\$0	\$110,323	\$12,383	0.00																			
121411909L	FY09 Mngmnt of S/R PED Effort (S/R Dipoles)	01-Oct-08	30-Sep-09	49.60	\$57,074	15.00	\$0	\$57,074	\$0	0.00																			
13411909LC	FY09 Mngmnt & Oversight (S/R Dipoles)	01-Oct-08	24-Dec-08	11.80	\$12,722	3.09	\$0	\$19,661	\$6,939	0.00																			
<b>1.2.1.4.1.4 STANDS</b>		<b>01-Nov-06</b>	<b>29-Sep-09</b>	<b>144.00</b>	<b>\$392,433</b>	<b>199.62</b>	<b>\$0</b>	<b>\$598,335</b>	<b>\$205,902</b>	<b>0.20</b>																			
121414005	Develop Preliminary S/R Stand and Layout Design (STANDS)	01-Nov-06	17-Apr-07	22.00	\$42,459	20.88	\$0	\$42,459	\$0	46.20																			
121414010	Preliminary Design & Safety Review of Stands (STANDS)	21-Mar-07	17-Apr-07	4.00	\$3,685	1.74	\$0	\$3,685	\$0	46.20																			
121414010M	Preliminary S/R Stand and Layout Design & Safety Review Completed (STANDS)		17-Apr-07	0.00	\$0	0.00	\$0	\$0	\$0	46.20																			
121414015	FY08 Detailed Dsgn of East S/R (S/R Stands) PED++	02-Jan-08	30-Sep-08	38.00	\$69,840	37.00	\$0	\$97,701	\$27,861	11.60																			
121414015a	FY09 Detailed Dsgn of East S/R (S/R Stands) PED++	01-Oct-08	09-Jul-09	38.00	\$72,072	37.00	\$0	\$100,822	\$28,750	11.60																			
121414016	Incorporate Changes B to the Modified East S/R (S/R Dipoles)	02-Mar-09	14-Aug-09	23.60	\$20,419	8.00	\$0	\$112,768	\$92,349	6.40																			
121414020	FY08 Detailed Dsgn of West S/R (S/R Stands)++	22-Apr-08	30-Sep-08	22.60	\$56,503	29.82	\$0	\$73,993	\$17,491	0.20																			
121414020a	FY09 Detailed Dsgn of West S/R (S/R Stands)++	01-Oct-08	29-Sep-09	49.40	\$127,455	65.18	\$0	\$166,906	\$39,451	0.20																			
<b>1.2.1.4.1.6 VACUUM</b>		<b>04-Feb-08</b>	<b>10-Jun-09</b>	<b>67.60</b>	<b>\$73,977</b>	<b>39.50</b>	<b>\$0</b>	<b>\$73,977</b>	<b>\$0</b>	<b>15.60</b>																			
121416000	FY08 Detailed Dsgn of East S/R Dipole Chambers (S/R Vac)++	04-Feb-08	30-Sep-08	33.60	\$43,480	23.10	\$0	\$43,480	\$0	42.20																			
121416000a	FY09 Detailed Dsgn of East S/R Dipole Chambers (S/R Vac)++	01-Oct-08	13-Nov-08	6.40	\$8,547	4.40	\$0	\$8,547	\$0	42.20																			
121416005	FY08 Detailed Dsgn of West S/R Dipole Chambers (S/R Vac)++	15-Apr-08	30-Sep-08	23.60	\$21,574	11.80	\$0	\$21,574	\$0	49.20																			
121416005a	FY09 Detailed Dsgn of West S/R Dipole Chambers (S/R Vac)++	01-Oct-08	02-Oct-08	0.40	\$377	0.20	\$0	\$377	\$0	49.20																			
121416010	Pre-Constructn Dsgn Review for S/R's++	04-Jun-09	10-Jun-09	1.00	\$0	0.00	\$0	\$0	\$0	15.60																			
<b>1.2.1.4.2 EXISTING ARCS (1-9, A, B, &amp; C)</b>		<b>02-Oct-06</b>	<b>22-May-09</b>	<b>130.60</b>	<b>\$148,473</b>	<b>65.70</b>	<b>\$0</b>	<b>\$202,962</b>	<b>\$54,489</b>	<b>276.00</b>																			
<b>1.2.1.4.2.1 DIPOLES</b>		<b>02-Oct-06</b>	<b>22-May-09</b>	<b>130.60</b>	<b>\$94,153</b>	<b>37.85</b>	<b>\$0</b>	<b>\$148,642</b>	<b>\$54,489</b>	<b>56.20</b>																			
121421005	Develop Partial Design of Arc Dipole H-Iron (DIPOLES)	02-Oct-06	01-Feb-07	16.00	\$20,938	10.44	\$0	\$20,938	\$0	119.60																			
121421010	Preliminary Design & Safety Review of Existing Arcs Dipoles (DIPOLES)	04-Jan-07	01-Feb-07	4.00	\$3,692	1.74	\$0	\$3,692	\$0	119.60																			
121421010M	Existing Arcs Dipoles Preliminary Design & Safety Review Completed (DIPOLES)		01-Feb-07	0.00	\$0	0.00	\$0	\$0	\$0	119.60																			
121421020	Finish Dsgn of Arc Dipole H-Iron (EXIST ARC Dipoles) ++	01-Oct-08	02-Jan-09	12.00	\$20,887	11.00	\$0	\$20,887	\$0	36.60																			
121421021	Add H Steel to ARC 1 & 2 Design (S/R Dipoles)	17-Mar-09	28-Apr-09	6.20	\$7,657	3.00	\$0	\$21,239	\$13,582	55.80																			
121421022	Synchrotron Radiation Compensation Design (S/R Dipoles)	28-Apr-09	22-May-09	3.80	\$10,210	4.00	\$0	\$23,792	\$13,582	56.20																			
121421908L	FY08 Mngmnt of Existing Arcs (EXIST ARC Dipoles)	01-Oct-07	30-Sep-08	49.60	\$23,918	6.00	\$0	\$45,753	\$21,835	0.00																			
13421909LC	FY09 Mngmnt & Oversight (EXIST ARC Dipoles)	01-Oct-08	24-Dec-08	11.80	\$6,850	1.67	\$0	\$12,340	\$5,489	0.00																			
<b>1.2.1.4.2.2 QUADRUPOLES</b>		<b>01-Oct-08</b>	<b>24-Dec-08</b>	<b>11.80</b>	<b>\$7,238</b>	<b>3.24</b>	<b>\$0</b>	<b>\$7,238</b>	<b>\$0</b>	<b>295.80</b>																			
13422035XD	Prcmnt Prep for Quads (EXIST ARC Q-POLES)	01-Oct-08	24-Dec-08	11.80	\$7,238	3.24	\$0	\$7,238	\$0	295.80																			
<b>1.2.1.4.2.4 STANDS</b>		<b>16-Oct-06</b>	<b>03-Apr-09</b>	<b>121.60</b>	<b>\$47,082</b>	<b>24.61</b>	<b>\$0</b>	<b>\$47,082</b>	<b>\$0</b>	<b>25.00</b>																			
121424005	Develop Cartridge Design for Path Length Change (STANDS)	16-Oct-06	19-Dec-06	9.00	\$5,235	2.61	\$0	\$5,235	\$0	124.60																			
121424010	New Stands for H-B Transport (EXIST ARC Stands)++	24-Dec-08	27-Mar-09	12.00	\$19,134	10.00	\$0	\$19,134	\$0	25.00																			
121425005	Dsgn of Modified QR & QC/QB Girders (EXIST ARC Girders)	28-Jan-08	07-Apr-08	10.00	\$15,142	8.00	\$0	\$15,142	\$0	68.20																			
121425010	Dsgn of simple QR Girder for H-B (EXIST ARC Girders)++	08-Apr-08	12-May-08	5.00	\$7,571	4.00	\$0	\$7,571	\$0	68.20																			
121425015	Pre-Constructn Dsgn Review for Existing ARCs++	30-Mar-09	03-Apr-09	1.00	\$0	0.00	\$0	\$0	\$0	25.00																			
<b>1.2.1.4.3 LINACS</b>		<b>01-Feb-07</b>	<b>30-Sep-08</b>	<b>83.20</b>	<b>\$32,999</b>	<b>16.22</b>	<b>\$0</b>	<b>\$32,999</b>	<b>\$0</b>	<b>49.60</b>																			
<b>1.2.1.4.3.2 CORRECTORS</b>		<b>24-Jul-08</b>	<b>04-Sep-08</b>	<b>6.00</b>	<b>\$10,045</b>	<b>5.00</b>	<b>\$0</b>	<b>\$10,045</b>	<b>\$0</b>	<b>52.20</b>																			
121432005	Final Dsgn of Linac Correctors & Skew Quads (Linac Correctors)++	24-Jul-08	04-Sep-08	6.00	\$10,045	5.00	\$0	\$10,045	\$0	52.20																			
<b>1.2.1.4.3.3 STANDS</b>		<b>01-Feb-07</b>	<b>30-Sep-08</b>	<b>83.20</b>	<b>\$22,954</b>	<b>11.22</b>	<b>\$0</b>	<b>\$22,954</b>	<b>\$0</b>	<b>49.60</b>																			
121433005	Initial layout of LINAC Stands and Girders (STANDS)	01-Feb-07	01-Jun-07	17.00	\$10,436	5.22	\$0	\$10,436	\$0	80.40																			
121433908L	FY08 Mngmnt of Linac Stands	01-Oct-07	30-Sep-08	49.60	\$0	0.00	\$0	\$0	\$0																				





Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023		
12151908LOE	FY08 Mngmnt of Extraction WBS	01-Oct-07	30-Sep-08	49.60	\$38,358	15.40	\$0	\$38,358	\$0	25.60																			
1351909LOEX	FY09 Mngmnt Oversight (Cavities)	01-Oct-08	24-Dec-08	11.80	\$8,500	3.31	\$0	\$9,386	\$887	0.00																			
<b>1.2.1.5.3 RESONANCE CONTROL</b>		<b>02-Oct-06</b>	<b>27-Nov-06</b>	<b>7.80</b>	<b>\$22,515</b>	<b>10.88</b>	<b>\$0</b>	<b>\$22,515</b>	<b>\$0</b>	<b>139.80</b>																			
12153005	Determine and checkout LCW capacity (RESON CNTRL)	02-Oct-06	06-Oct-06	1.00	\$1,088	0.43	\$0	\$1,088	\$0	145.40																			
12153010	Develop Design Package for Resonance Control (RESON CNTRL)	02-Oct-06	10-Nov-06	6.00	\$16,348	8.00	\$0	\$16,348	\$0	139.80																			
12153015	Design & Safety Review for Resonance Control (RESON CNTRL)	16-Nov-06	16-Nov-06	0.20	\$1,081	0.52	\$0	\$1,081	\$0	139.80																			
12153020	Post-review development of Design Package for Resonance Control (RESON CNTRL)	17-Nov-06	27-Nov-06	1.00	\$3,997	1.91	\$0	\$3,997	\$0	139.80																			
12153025M	Finish Resonance Control Design (RESON CNTRL)		27-Nov-06	0.00	\$0	0.00	\$0	\$0	\$0	139.80																			
<b>1.2.1.5.4 LAMBERTSON</b>		<b>15-Mar-07</b>	<b>24-Dec-08</b>	<b>89.20</b>	<b>\$27,875</b>	<b>13.53</b>	<b>\$0</b>	<b>\$28,635</b>	<b>\$760</b>	<b>36.80</b>																			
12154005	Develop Design Package for Lambertson (LAMBERTSON)	15-Mar-07	23-May-07	10.00	\$13,558	6.36	\$0	\$13,558	\$0	112.80																			
12154010	Design & Safety Review for Lambertson (LAMBERTSON)	24-May-07	24-May-07	0.20	\$8,965	4.69	\$0	\$8,965	\$0	112.80																			
12154015	Post-review development of Design Package for Lambertson (LAMBERTSON)	25-May-07	15-Jun-07	3.00	\$4,137	2.00	\$0	\$4,137	\$0	112.80																			
12154020M	Finished Lambertson Design (LAMBERTSON)		15-Jun-07	0.00	\$0	0.00	\$0	\$0	\$0	112.80																			
1354909LOEX	FY09 Engmg Oversight (LAMBERTSON)	01-Oct-08	24-Dec-08	11.80	\$1,214	0.48	\$0	\$1,974	\$760	25.60																			
<b>1.2.1.5.5 SEPTA &amp; DIPOLES</b>		<b>13-Feb-07</b>	<b>30-Sep-08</b>	<b>81.60</b>	<b>\$40,280</b>	<b>17.59</b>	<b>\$0</b>	<b>\$40,280</b>	<b>\$0</b>	<b>48.60</b>																			
12155005	Develop Design Package for Septa and Dipoles (SEPTA/DIPOLES)	13-Feb-07	30-May-07	15.00	\$13,359	5.39	\$0	\$13,359	\$0	84.80																			
12155006	Preliminary Design & Safety Review for Septa and Dipoles (SEPTA/DIPOLES)	31-May-07	31-May-07	0.20	\$432	0.17	\$0	\$432	\$0	84.80																			
12155007	Post-review development of Design Package for Septa and dipoles (SEPTA/DIPOLES)	01-Jun-07	14-Jun-07	2.00	\$1,295	0.52	\$0	\$1,295	\$0	84.80																			
12155035	Dsgn Septa & Dipoles	01-Oct-07	15-Feb-08	18.00	\$12,318	5.70	\$0	\$12,318	\$0	70.00																			
12155040	Prelim Dsgn Review for Septa & Dipoles	19-Feb-08	19-Feb-08	0.20	\$835	0.40	\$0	\$835	\$0	70.00																			
12155045	Post-Review Development of Dsgn Package for Septa & Dipoles	20-Feb-08	29-Apr-08	10.00	\$7,588	3.60	\$0	\$7,588	\$0	70.00																			
12155050M	End of Extraction Septa & Dipole PED Effort+		29-Apr-08	0.00	\$0	0.00	\$0	\$0	\$0	70.00																			
12155908LOE	FY08 Oversee Dsgn Package for Septa & Dipoles	01-Oct-07	30-Sep-08	49.60	\$4,452	1.80	\$0	\$4,452	\$0	0.00																			
<b>1.2.1.5.6 STANDS</b>		<b>01-Nov-06</b>	<b>30-Sep-09</b>	<b>144.20</b>	<b>\$159,821</b>	<b>80.93</b>	<b>\$0</b>	<b>\$182,025</b>	<b>\$22,204</b>	<b>0.00</b>																			
12156000	FY08 Expenses	01-Oct-07	30-Sep-08	49.60	\$0	0.00	\$0	\$10,928	\$10,928	0.00																			
12156002	FY09 Expenses	01-Oct-08	30-Sep-09	49.60	\$0	0.00	\$0	\$11,276	\$11,276	0.00																			
12156005	Develop Design Package for Stands (STANDS)	01-Nov-06	06-Mar-07	16.00	\$22,790	11.48	\$0	\$22,790	\$0	37.00																			
12156010	Preliminary Design & Safety Review for Stands (STANDS)	07-Mar-07	07-Mar-07	0.20	\$430	0.17	\$0	\$430	\$0	37.00																			
12156015	Post-review development of Design Package for Stands (STANDS)	08-Mar-07	04-Apr-07	4.00	\$4,628	2.27	\$0	\$4,628	\$0	37.00																			
12156030	FY08 Develop Dsgn Package for Stands	01-Oct-07	30-Sep-08	49.60	\$71,746	37.20	\$0	\$71,746	\$0	12.20																			
12156030a	FY09 Develop Dsgn Package for Stands	01-Oct-08	19-Mar-09	22.40	\$33,437	16.80	\$0	\$33,437	\$0	12.20																			
12156035	Finalize Dsgn Package for Stands	08-Apr-09	23-Jul-09	15.00	\$26,791	13.00	\$0	\$26,791	\$0	9.60																			
12156040M	Stands Dsgn Comp++		13-Apr-09	0.00	\$0	0.00	\$0	\$0	\$0	23.00																			
12156045	Pre-Constructn Dsgn Review for Extraction++	13-Apr-09	17-Apr-09	1.00	\$0	0.00	\$0	\$0	\$0	23.00																			
<b>1.2.1.6 INSTRUMENTATION, CONTROLS, &amp; SAFETY SYSTEMS</b>		<b>02-Oct-06</b>	<b>08-Sep-09</b>	<b>145.40</b>	<b>\$901,280</b>	<b>383.47</b>	<b>\$69,639</b>	<b>\$1,020,030</b>	<b>\$49,111</b>	<b>120.40</b>																			
<b>1.2.1.6.1 BEAM DIAGNOSTICS</b>		<b>02-Oct-06</b>	<b>17-Jun-09</b>	<b>134.00</b>	<b>\$175,199</b>	<b>70.21</b>	<b>\$12,580</b>	<b>\$196,613</b>	<b>\$8,834</b>	<b>14.60</b>																			
<b>1.2.1.6.1.1 BPM's</b>		<b>02-Oct-06</b>	<b>27-May-09</b>	<b>131.00</b>	<b>\$92,260</b>	<b>38.71</b>	<b>\$12,580</b>	<b>\$109,277</b>	<b>\$4,436</b>	<b>17.60</b>																			
121611007L	FY07 Management Effort (BPMs)	02-Oct-06	28-Sep-07	49.40	\$6,933	1.74	\$0	\$6,933	\$0	22.20																			
121611010	Define & Package System Layout (BPMs)	05-Dec-06	12-Jan-07	4.50	\$6,812	2.61	\$0	\$6,812	\$0	53.60																			
121611015	Design Top-Level System Layout (BPMs)	12-Jan-07	14-Feb-07	4.50	\$17,064	8.27	\$0	\$17,064	\$0	53.60																			
121611020	Evaluate System Interface (BPMs)	12-Jan-07	14-Feb-07	4.50	\$2,016	0.87	\$0	\$2,016	\$0	53.60																			
121611025	Preliminary Design & Safety Review (BPMs)	15-Feb-07	15-Feb-07	0.20	\$460	0.17	\$0	\$460	\$0	53.60																			
121611025M	Complete Preliminary Design & Safety Review (BPMs)		15-Feb-07	0.00	\$0	0.00	\$0	\$0	\$0	53.60																			
121611030M	Ready to Baseline (BPMs)		14-Feb-07	0.00	\$0	0.00	\$0	\$0	\$0	53.60																			
121611040	FY08 Comp BPM Sys Dsgn	01-Oct-07	15-Feb-08	18.00	\$25,486	11.50	\$0	\$25,486	\$0	22.20																			
121611041	Pre-Constructn Final Dsgn Review for BPM's	19-Feb-08	25-Feb-08	1.00	\$1,245	0.50	\$0	\$1,245	\$0	22.20																			
121611045	Compile Mech BPM Prcmnt Packages	02-Jul-08	27-Aug-08	8.00	\$10,584	5.00	\$6,191	\$18,902	\$2,126	54.20																			
121611050	Compile Elect BPM Prcmnt Packages	01-Apr-09	27-May-09	8.00	\$13,492	6.00	\$6,389	\$22,191	\$2,311	17.60																			
121611055M	BPM PED Comp++		27-May-09	0.00	\$0	0.00	\$0	\$0	\$0	17.60																			
121611908L	FY08 Mngmnt Effort for BPMs	01-Oct-07	30-Sep-08	49.60	\$7,973	2.00	\$0	\$7,973	\$0	0.00																			
13611909LC	FY09 Mngmnt Effort for BPMs	01-Oct-08	24-Dec-08	11.80	\$1,950	0.05	\$0	\$1,950	\$0	0.00																			
<b>1.2.1.6.1.2 HARPS</b>		<b>02-Oct-06</b>	<b>07-May-09</b>	<b>128.30</b>	<b>\$19,306</b>	<b>6.97</b>	<b>\$0</b>	<b>\$19,306</b>	<b>\$0</b>	<b>20.30</b>																			
121612007L	FY07 Management Eff																												







Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023			
121643040	Attend Training for Safety PLC Software (PSS)	02-Oct-06	10-Jan-07	13.00	\$4,598	1.74	\$0	\$8,726	\$4,128	72.75																				
121643045	Design Beam Transport Monitor (PSS)	01-Nov-06	29-Jun-07	32.40	\$5,020	2.17	\$0	\$5,020	\$0	82.20																				
121643045A	Design Beam Transport Monitor (PSS)	01-Oct-07	08-Feb-08	17.00	\$4,894	2.17	\$0	\$4,894	\$0	82.20																				
121643050	Construct and Test Eng Dev Beam Transport Monitor (PSS)	11-Dec-06	29-Jun-07	27.20	\$1,276	0.61	\$0	\$1,483	\$206	46.35																				
121643050A	Construct and Test Eng Dev Beam Transport Monitor (PSS)	28-Jan-08	25-Jul-08	25.30	\$11,108	5.49	\$0	\$13,025	\$1,917	31.35																				
121643055	Develop Cable Plant Design (PSS)	02-Apr-07	29-Jun-07	12.80	\$1,148	0.52	\$0	\$1,148	\$0	46.30																				
121643055A	Develop Cable Plant Design (PSS)	01-Oct-07	13-Dec-07	10.35	\$10,314	4.70	\$0	\$10,314	\$0	46.30																				
121643060	Develop PSS Insertion Device Design (PSS)	02-Apr-07	29-Jun-07	12.80	\$2,983	1.30	\$0	\$2,983	\$0	31.35																				
121643060A	Develop PSS Insertion Device Design (PSS)	01-Oct-07	25-Jan-08	15.00	\$8,840	3.91	\$0	\$8,840	\$0	31.35																				
121643065	Define PSS BCM Requirements (PSS)	02-Apr-07	29-Jun-07	12.80	\$1,297	0.52	\$0	\$1,297	\$0	56.95																				
121643065A	Define PSS BCM Requirements (PSS)	01-Oct-07	25-Jan-08	15.00	\$5,198	2.09	\$0	\$5,198	\$0	84.20																				
121643070	Prepare Baseline Cost Estimate (PSS)	09-Mar-07	12-Apr-07	5.00	\$5,576	2.17	\$0	\$5,576	\$0	64.95																				
121643075	Prepare Review Material (PSS)	09-Apr-07	27-Apr-07	3.00	\$4,905	2.61	\$0	\$4,905	\$0	64.15																				
121643080	Develop Software Specification (PSS)	09-Apr-07	29-Jun-07	11.80	\$1,081	0.43	\$0	\$1,081	\$0	64.15																				
121643080A	Develop Software Specification (PSS)	01-Oct-07	25-Jan-08	15.00	\$3,249	1.31	\$0	\$3,249	\$0	84.20																				
121643085	Complete Design & Safety Review - External Reviewers (PSS)	14-May-07	18-May-07	1.00	\$4,905	2.61	\$0	\$9,033	\$4,128	56.95																				
121643090M	PSS Design 35% Complete (PSS)		25-Jan-08	0.00	\$0	0.00	\$0	\$0	\$0	31.35																				
121643095M	Start P-#2 of PSS PED - FY08	07-Oct-08		0.00	\$0	0.00	\$0	\$0	\$0	6.25																				
121643100	FY08 Develop PSS Detail Dsgn	09-Apr-08	30-Sep-08	24.30	\$91,656	42.26	\$0	\$91,656	\$0	31.55																				
121643100a	FY09 Develop PSS Detail Dsgn	01-Oct-08	07-Oct-08	1.00	\$3,892	1.74	\$0	\$3,892	\$0	31.55																				
121643105	Develop PSS Mock-up & Test-bed	07-Oct-08	07-Jan-09	11.70	\$19,929	10.00	\$34,064	\$60,796	\$6,804	6.25																				
121643110	Develop New Logic Specification for CEBAF Segements (PSS)	07-Jan-09	26-Feb-09	6.90	\$7,708	3.00	\$0	\$7,708	\$0	6.25																				
121643115	Develop Logic Specification for Tagger/H-D (PSS)	07-Oct-08	07-Nov-08	4.80	\$5,138	2.00	\$0	\$5,138	\$0	19.85																				
121643120	Develop Screen Specification (PSS)	26-Feb-09	24-Mar-09	3.70	\$5,138	2.00	\$0	\$5,138	\$0	9.65																				
121643125	Develop PSS-EPICS Software Spec (PSS)	26-Feb-09	16-Apr-09	7.10	\$7,527	3.00	\$5,494	\$13,021	\$0	6.25																				
121643130	Comp Detail Dsgn Review - External Reviewers (PSS)	16-Apr-09	27-May-09	5.55	\$21,818	11.00	\$0	\$25,119	\$3,301	6.25																				
121643135	Update Dsgn Based on Review recommendations (PSS)	27-May-09	29-Jun-09	4.60	\$10,424	5.00	\$0	\$10,424	\$0	6.25																				
121643140	Develop Proc Packages (PSS)++	29-Jun-09	17-Aug-09	6.90	\$19,420	9.00	\$0	\$19,420	\$0	6.25																				
121643145	Develop QA Documentation (PSS)	16-Oct-08	17-Nov-08	4.60	\$20,988	8.00	\$0	\$20,988	\$0	35.90																				
121643170	Pre-Constructn Dsgn Review	22-Jan-09	29-Jan-09	1.15	\$0	0.00	\$0	\$0	\$0	27.10																				
13643909LC	FY09 Mngmnt & Supprt Effort for PSS	01-Oct-08	24-Dec-08	11.80	\$789	0.40	\$0	\$789	\$0	0.00																				
<b>1.2.1.6.5 INSERTABLE DUMP</b>		<b>02-Oct-06</b>	<b>01-Jul-09</b>	<b>136.00</b>	<b>\$112,180</b>	<b>46.67</b>	<b>\$0</b>	<b>\$113,277</b>	<b>\$1,097</b>	<b>12.60</b>																				
12165007LOE	FY07 Management Effort for Dump Controls (INSERT DUMP)	02-Oct-06	28-Sep-07	49.40	\$2,632	0.87	\$0	\$2,632	\$0	0.00																				
12165010	Define & Package System Layout (INSERT DUMP)	02-Oct-06	10-Nov-06	6.00	\$6,800	2.61	\$0	\$6,800	\$0	65.30																				
12165015	Design Top-Level System Layout (INSERT DUMP)	29-Nov-06	18-Jan-07	6.00	\$16,751	7.83	\$0	\$16,751	\$0	65.30																				
12165016	Preliminary Design & Safety Review (INSERT DUMP)	01-Mar-07	01-Mar-07	0.20	\$843	0.34	\$0	\$843	\$0	65.30																				
12165016M	Complete Preliminary Design & Safety Review for Dump Controls (INSERT DUMP)	01-Mar-07	01-Mar-07	0.00	\$0	0.00	\$0	\$0	\$0	65.30																				
12165020M	Ready to Baseline Milestone for Dump Controls (INSERT DUMP)	01-Mar-07	01-Mar-07	0.00	\$0	0.00	\$0	\$0	\$0	65.30																				
12165026	FY08 Comp Dump Sys Dsgn	01-Oct-07	02-Nov-07	5.00	\$0	0.00	\$0	\$0	\$0	35.70																				
12165027	Pre-Constructn Final Dsgn Review for Dump	05-Nov-07	07-Nov-07	0.50	\$0	0.00	\$0	\$0	\$0	35.70																				
12165030	Compile Dump Sys Elect Prcrmt Packages++	05-Jan-09	01-Jul-09	25.00	\$44,003	19.00	\$0	\$44,003	\$0	12.60																				
12165035	Compile Dump System Mech Prcrmt Packages++	18-Feb-09	19-May-09	13.00	\$33,082	14.00	\$0	\$34,178	\$1,097	18.60																				
12165908LOE	FY08 Mngmnt Effort for Dump Controls	01-Oct-07	30-Sep-08	49.60	\$7,973	2.00	\$0	\$7,973	\$0	0.00																				
1365909LOEX	FY09 Mngmnt Effort for Dump	01-Oct-08	24-Dec-08	11.80	\$98	0.02	\$0	\$98	\$0	0.00																				
<b>1.2.1.6.6 VACUUM CONTROLS</b>		<b>02-Oct-06</b>	<b>09-Jul-09</b>	<b>137.00</b>	<b>\$36,739</b>	<b>14.55</b>	<b>\$6,389</b>	<b>\$46,535</b>	<b>\$3,407</b>	<b>11.60</b>																				
12166007LOE	FY07 Management Effort for Vacuum (VAC CONT)	02-Oct-06	28-Sep-07	49.40	\$3,467	0.87	\$0	\$3,467	\$0	0.00																				
12166010	Design Top Level System Layout (VAC CONT)	05-Dec-06	12-Jan-07	4.50	\$6,477	2.61	\$0	\$6,477	\$0	70.30																				
12166015	Define Vacuum System Interface Requirements (VAC CONT)	05-Dec-06	12-Jan-07	4.50	\$2,016	0.87	\$0	\$2,016	\$0	63.50																				
12166020	Preliminary Design & Safety Review (VAC CONT)	02-Mar-07	05-Mar-07	0.20	\$460	0.17	\$0	\$460	\$0	63.50																				
12166020M	Complete Preliminary Design & Safety Review Vacuum Controls (VAC CONT)	05-Mar-07	05-Mar-07	0.00	\$0	0.00	\$0	\$0	\$0	63.50																				
12166025M	Ready to baseline Vacuum Controls (VAC CONT)	05-Mar-07	05-Mar-07	0.00	\$0	0.00	\$0	\$0	\$0	63.50																				
12166026	FY08 Comp Sys Dsgn (VAC CONT)	01-Oct-07	02-Nov-07	5.00	\$0	0.00	\$0	\$0	\$0	34.20																				
12166027	Pre-Constructn Final Dsgn Review for Vac Controls	05-Nov-07	16-Nov-07																											



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	023	
1216700LOE	FY07 Management Effort for Magnet Controls (MAG INSTR)	02-Oct-06	28-Sep-07	49.40	\$3,467	0.87	\$0	\$3,467	\$0	0.00																		
12167010	Design Top-Level Magnet Control System Layout (MAG INSTR)	05-Dec-06	12-Jan-07	4.50	\$3,865	1.74	\$0	\$3,865	\$0	68.80																		
12167015	Preliminary Design & Safety Review (MAG INSTR)	02-Feb-07	05-Feb-07	0.20	\$460	0.17	\$0	\$460	\$0	68.80																		
12167015M	Complete Preliminary Design & Safety Review Magnet Controls (MAG INSTR)		05-Feb-07	0.00	\$0	0.00	\$0	\$0	\$0	68.80																		
12167020M	Ready to Baseline Magnet Controls WBS (MAG INSTR)		05-Feb-07	0.00	\$0	0.00	\$0	\$0	\$0	68.80																		
12167026	FY08 Comp Sys Dsgn (MAG INSTR)	01-Oct-07	02-Nov-07	5.00	\$0	0.00	\$0	\$0	\$0	35.70																		
12167027	Pre-Constructn Final Dsgn Review for Mag Instrumentn	05-Nov-07	07-Nov-07	0.50	\$0	0.00	\$0	\$0	\$0	35.70																		
12167028	Compile Mag Control Sys Elect Prcmnt Package+	05-Jan-09	04-Feb-09	4.30	\$4,176	2.00	\$0	\$4,176	\$0	33.30																		
<b>1.2.2 UPGRADE HALLS A, B &amp; C</b>																												
122005M	Quarterly Safety Meeting Complete	02-Oct-06	30-Sep-09	148.60	\$2,999,458	1648.50	\$838,819	\$3,962,112	\$123,835	137.80																		
122010M	Quarterly Safety Meeting Complete		22-Dec-06	0.00	\$0	0.00	\$0	\$0	\$0	95.00																		
122015M	Quarterly Safety Meeting Complete		30-Mar-07	0.00	\$0	0.00	\$0	\$0	\$0	95.00																		
122015M	Quarterly Safety Meeting Complete		29-Jun-07	0.00	\$0	0.00	\$0	\$0	\$0	95.00																		
122020M	Quarterly Sfty Meet Comp		28-Sep-07	0.00	\$0	0.00	\$0	\$0	\$0	95.00																		
122030M	Monthly Safety Inspection Completed		31-Oct-06	0.00	\$0	0.00	\$0	\$0	\$0	95.00																		
122031M	Monthly Safety Inspection Completed		30-Nov-06	0.00	\$0	0.00	\$0	\$0	\$0	95.00																		
122032M	Monthly Safety Inspection Completed		22-Dec-06	0.00	\$0	0.00	\$0	\$0	\$0	95.00																		
122033M	Monthly Safety Inspection Completed		31-Jan-07	0.00	\$0	0.00	\$0	\$0	\$0	95.00																		
122034M	Monthly Safety Inspection Completed		28-Feb-07	0.00	\$0	0.00	\$0	\$0	\$0	95.00																		
122035M	Monthly Safety Inspection Completed		30-Mar-07	0.00	\$0	0.00	\$0	\$0	\$0	95.00																		
122036M	Monthly Safety Inspection Completed		30-Apr-07	0.00	\$0	0.00	\$0	\$0	\$0	95.00																		
122037M	Monthly Safety Inspection Completed		31-May-07	0.00	\$0	0.00	\$0	\$0	\$0	95.00																		
122038M	Monthly Safety Inspection Completed		29-Jun-07	0.00	\$0	0.00	\$0	\$0	\$0	95.00																		
122039M	Monthly Safety Inspection Completed		31-Jul-07	0.00	\$0	0.00	\$0	\$0	\$0	95.00																		
122040M	Monthly Safety Inspection Completed		31-Aug-07	0.00	\$0	0.00	\$0	\$0	\$0	95.00																		
122041M	Monthly Sfty Inspection Comptd		28-Sep-07	0.00	\$0	0.00	\$0	\$0	\$0	95.00																		
<b>1.2.2.1 HALL A</b>																												
<b>1.2.2.1.3 COMPUTING</b>																												
<b>1.2.2.1.3.2 DAQ UPGRADES FOR HRS</b>																												
122132005M	Start PED DAQ upgrade for one HRS (DAQ UPGRD)	02-Oct-06	30-Sep-08	99.00	\$36,625	14.60	\$15,480	\$52,105	\$0	45.40																		
122132010	Specify readout modules & busses trigger changes. Design power dist changes. Engine...	02-Oct-06	08-Feb-07	17.00	\$31,145	12.40	\$15,480	\$46,625	\$0	127.40																		
122132908L	FY08 Proj Admin H-A	01-Oct-07	30-Sep-08	49.60	\$5,480	2.20	\$0	\$5,480	\$0	0.00																		
<b>1.2.2.1.5 BEAMLINE</b>																												
<b>1.2.2.1.5.1 MOLLER POLARIMETER UPGRADE</b>																												
122151005M	Start PED Moller (MLLR PLRMTR UPGRD)	02-Oct-06	08-Feb-07	17.00	\$25,462	15.00	\$0	\$27,052	\$1,590	127.40																		
122151010	Design dipole/detector stands beamline changes dipole insert (MLLR PLRMTR UPGRD)	02-Oct-06	08-Feb-07	17.00	\$25,462	15.00	\$0	\$27,052	\$1,590	127.40																		
<b>1.2.2.1.5.2 COMPTON POLARIMETER UPGRADE</b>																												
122152005M	Start FY07 PED Compton - 1st phase	01-Mar-07	31-Jul-08	71.00	\$48,113	38.00	\$0	\$48,113	\$0	58.00																		
122152010	FY07 Design magnets / cavity stands. Engineer detector mods (COMPT PLRMTR UPG...	01-Mar-07	28-Jun-07	17.00	\$24,341	19.00	\$0	\$24,341	\$0	107.80																		
122152015M	Start FY08 Milestone P-#2 (COMPT PLRMTR UPGRD)	02-Jul-08		0.00	\$0	0.00	\$0	\$0	\$0	58.00																		
122152020	FY08 Dsgn Vac Pipe & Detector motion Sys (COMPT PLRMTR UPGRD)+	02-Jul-08	31-Jul-08	4.20	\$23,772	19.00	\$0	\$23,772	\$0	58.00																		
<b>1.2.2.1.5.3 MAPPING-ARC ENERGY MEASUREMENT</b>																												
122153000M	Start FY07 PED 9th dipole mapper 1ST Phase	02-Oct-06		0.00	\$0	0.00	\$0	\$0	\$0	108.60																		
122153005	FY07 PED Engineer & analysis of mapping coil 1st Phase	02-Oct-06	03-Nov-06	5.00	\$20,018	9.20	\$0	\$24,628	\$4,610	108.60																		
122153009M	Start FY08 PED 9th Dipole Mapper P-#2	01-Oct-08		0.00	\$0	0.00	\$0	\$0	\$0	14.60																		
122153010	PED Mech & Elect Sys Dsgn P-2+	11-Mar-09	17-Jun-09	14.00	\$1,754	1.00	\$0	\$1,754	\$0	14.60																		
<b>1.2.2.2 HALL B</b>																												
<b>1.2.2.2.1 MAGNET</b>																												
12221040	**Torus Labor Reference Dsgn	02-Oct-06	24-Dec-08	110.80	\$310,510	149.01	\$356,579	\$694,860	\$27,771	128.80																		
12221045	Torus Labor Procurement Prep	31-Oct-07	12-Mar-08	17.00	\$14,139	4.50	\$0	\$21,362	\$7,223	19.80																		
12221045M	Torus- Reference Dsgn Comptd++		13-Mar-08	28.00	\$14,139	4.50	\$0	\$26,522	\$12,383	129.00																		
12221050	**Solenoid- FY08 Contract for Design (part of 2nd prog pymnt)		12-Mar-08	0.00	\$0	0.00	\$0	\$0	\$0	19.80																		
12221050M	Solenoid- FY07 Techncl Dsgn Report & Sfty Assessmnt	02-Oct-07	17-Oct-07	2.38	\$2,241	1.00	\$15,324	\$17,565	\$0	4.82																		
12221055	**Solenoid Labor Reference Dsgn		17-Oct-07	13-Feb-08	15.00	\$14,139	4.50	\$0	\$14,139	\$0																		
12221060	Solenoid Labor Procurement Prep		13-Feb-08	23-Sep-08	31.00	\$14,139	4.50	\$0	\$18,504	\$4,365																		
12221060M	Solenoid- Reference Dsgn Comptd++		31-Mar-08	0.00	\$0	0.00	\$0	\$0	\$0	17.20																		
122211007LC	FY07 Project Management for all Hall B	02-Oct-06	28-Sep-07	49.40	\$32,781	13.00	\$0	\$32,781	\$0	0.00																		
122211015M	Torus- Completion of ACD technical review and summary report		26-Apr-07	0.00	\$0	0.00	\$0	\$0	\$0	25.40																		
122211017	Torus- Initial Payment for the design (TOROIDAL MAG)		27-Apr-07	0.00	\$0	0.00	\$0	\$0	\$0	25.40																		

█ Primary Baseline   
 █ Remaining Work   
 █ Critical Remaining Work   
 ◆ Baseline Milestone   
 ◆ Milestone

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023		
122211020	Torus- First phase of the design (TOROIDAL MAG)	04-Jun-07	04-Sep-07	13.00	\$20,266	10.30	\$42,390	\$62,656	\$0	25.40																			
122211025M	Torus- Safety Assessment (TOROIDAL MAG)		04-Sep-07	0.00	\$0	0.00	\$0	\$0	\$0	25.40																			
122211035	**Torus-FY07-Second phase of the design (1st & part of 2nd prog pymnt)	05-Sep-07	30-Oct-07	8.00	\$13,318	6.90	\$35,410	\$48,728	\$0	25.40																			
122211035M	Torus- FY07 Techncl Dsgn Report & Sfty Assessmnt		30-Oct-07	0.00	\$0	0.00	\$0	\$0	\$0	25.40																			
122211036M	Torus- Contract Award	01-Nov-07		0.00	\$0	0.00	\$0	\$0	\$0	19.80																			
122211037S	**Torus- Contract for Design (balance of 2nd & 3rd progress pymnts)	01-Nov-07	31-Jan-08	11.20	\$0	0.00	\$64,598	\$64,598	\$0	25.40																			
122211038M	Torus- 1st Progress Payment Completed		29-Nov-07	0.00	\$0	0.00	\$0	\$0	\$0	29.60																			
122211039M	Torus- 2nd Progress Payment Completed		21-Dec-07	0.00	\$0	0.00	\$0	\$0	\$0	29.60																			
122211040M	Torus- 3rd Progress Payment Completed		31-Jan-08	0.00	\$0	0.00	\$0	\$0	\$0	25.40																			
122212015M	Sol- Completion of ACD technical review and progress report		26-Apr-07	0.00	\$0	0.00	\$0	\$0	\$0	4.82																			
122212017	Sol- Initial Payment for the design (SACLAY)	27-Apr-07	01-Jun-07	5.00	\$0	0.00	\$78,790	\$78,790	\$0	4.82																			
122212020	Sol- First phase of the design (SOLENOID)	04-Jun-07	04-Sep-07	13.00	\$3,567	1.81	\$35,410	\$38,977	\$0	4.82																			
122212025M	Sol- Safety Assessment (SOLENOID)		04-Sep-07	0.00	\$0	0.00	\$0	\$0	\$0	4.82																			
122212035	**Solenoid- FY07 Contract for Design (1st & part of 2nd prog pymnt)	05-Sep-07	01-Oct-07	3.80	\$1,875	1.00	\$35,410	\$37,285	\$0	4.82																			
122212036M	Solenoid- Contract Award	01-Nov-07		0.00	\$0	0.00	\$0	\$0	\$0	5.00																			
122212037S	**Solenoid- Contract for Design (balance of 2nd & 3rd progress pymnts)	01-Nov-07	31-Mar-08	19.40	\$0	0.00	\$49,247	\$49,247	\$0	17.20																			
122212038M	Solenoid- 1st Progress Payment Completed		04-Jan-08	0.00	\$0	0.00	\$0	\$0	\$0	21.40																			
122212039M	Solenoid- 2nd Progress Payment Completed		29-Feb-08	0.00	\$0	0.00	\$0	\$0	\$0	21.40																			
122212040M	Solenoid- 3rd Progress Payment Completed		31-Mar-08	0.00	\$0	0.00	\$0	\$0	\$0	17.20																			
14211000MX	Torus Start 2nd Phase of Proc Prep	01-Oct-08		0.00	\$0	0.00	\$0	\$0	\$0	128.80																			
14211002X	Torus Prcrmnt Prep	01-Oct-08	24-Dec-08	11.80	\$114,858	58.00	\$0	\$114,858	\$0	128.80																			
14211009EX	Torus FY09 Travel	01-Oct-08	24-Dec-08	11.80	\$0	0.00	\$0	\$1,900	\$1,900	0.00																			
14212000MX	Solenoid Start 2nd Phase of Proc Prep	01-Oct-08		0.00	\$0	0.00	\$0	\$0	\$0	3.80																			
14212002X	Solenoid Prcrmnt Prep for Dsgn & Prcrmnt	01-Oct-08	24-Dec-08	11.80	\$65,048	39.00	\$0	\$65,048	\$0	3.80																			
14212009EX	Solenoid FY09 Travel	01-Oct-08	24-Dec-08	11.80	\$0	0.00	\$0	\$1,900	\$1,900	3.80																			
<b>1.2.2.2 DETECTORS</b>		<b>02-Oct-06</b>	<b>22-Jul-09</b>	<b>138.80</b>	<b>\$1,095,213</b>	<b>684.29</b>	<b>\$8,307</b>	<b>\$1,104,153</b>	<b>\$633</b>	<b>92.00</b>																			
12222000	FY08 SVT- Comp Dsgn Layout (DETCTR)+	13-May-08	30-Sep-08	19.60	\$16,652	9.80	\$0	\$16,652	\$0	47.20																			
12222000a	FY09 SVT- Comp Dsgn Layout (DETCTR)+	01-Oct-08	16-Oct-08	2.40	\$2,104	1.20	\$0	\$2,104	\$0	47.20																			
12222005	SVT- Dsgn Supprt Struct Optimztn Comptd (DETCTR)	28-Nov-07	12-May-08	22.00	\$18,691	11.00	\$2,776	\$21,467	\$0	45.60																			
12222010	SVT- Dsgn of VME Board Comptd (DETCTR)	31-Mar-08	24-Sep-08	25.00	\$93,975	44.00	\$0	\$93,975	\$0	50.40																			
12222015	FY08 SVT- Dsgn Readout Software Comptd (DETCTR)	31-Mar-08	30-Sep-08	25.80	\$74,355	53.07	\$0	\$74,355	\$0	45.60																			
12222015a	FY09 SVT- Dsgn Readout Software Comptd (DETCTR)	01-Oct-08	28-Oct-08	4.00	\$11,896	8.23	\$0	\$11,896	\$0	45.60																			
12222015M	SVT- Techncl Dsgn Report & drawings (DETCTR)+		28-Oct-08	0.00	\$0	0.00	\$0	\$0	\$0	45.60																			
12222020M	FDC- Resource Loaded Schedule for Fab (DETCTR)	01-Oct-07		0.00	\$0	0.00	\$0	\$0	\$0	50.20																			
12222025	FDC- Comp Dsgn of Chamb & Stringing Fixture (DETCTR)	01-Oct-07	25-Sep-08	49.00	\$69,608	87.00	\$0	\$69,608	\$0	50.20																			
12222030	FDC- Comp Dsgn of Chambers Electrc's (DETCTR)	01-Oct-07	25-Sep-08	49.00	\$106,696	105.00	\$0	\$106,696	\$0	50.20																			
12222035M	FDC-Compltn of PED (DETCTR)+		29-Sep-08	0.00	\$0	0.00	\$0	\$0	\$0	49.80																			
12222040	FY08 Exp EC- Comp Dsgn of Assy (DETCTR)	30-Sep-08	30-Sep-08	0.20	\$176	0.09	\$0	\$176	\$0	12.00																			
12222040a	FY09 Exp EC- Comp Dsgn of Assy (DETCTR)	01-Oct-08	11-May-09	29.80	\$27,104	13.41	\$0	\$27,104	\$0	12.00																			
12222045	CTOF- Compltn of Light Guides Dsgn (DETCTR)	22-Jun-07	12-Dec-07	24.00	\$20,199	10.00	\$0	\$20,199	\$0	89.00																			
12222050	CTOF- Compltn of Dsgn LG bending (DETCTR)	22-Jun-07	12-Dec-07	24.00	\$11,429	5.00	\$0	\$11,429	\$0	65.00																			
12222055	PROC CTOF- Comp Dsgn Supprt for Triplet with 1 m long bend LG's (DETCTR)+	30-Sep-08	30-Mar-09	24.00	\$0	0.00	\$2,765	\$2,765	\$0	25.80																			
12222055a	FY08 Exp CTOF- Comp Dsgn Supprt for Triplet with 1 m long bend LG's (DETCTR)+	30-Sep-08	30-Sep-08	0.20	\$125	0.06	\$0	\$125	\$0	25.80																			
12222055b	FY09 Exp CTOF- Comp Dsgn Supprt for Triplet with 1 m long bend LG's (DETCTR)+	01-Oct-08	30-Mar-09	23.80	\$15,360	6.94	\$0	\$15,360	\$0	25.80																			
12222060	FTOF- Comp Dsgn of Backing Struct for Scintillators (DETCTR) +	01-Oct-07	07-Apr-08	25.00	\$11,611	5.00	\$0	\$11,611	\$0	74.20																			
12222065	FTOF- Comp Magnetic Shielding Dsgn (DETCTR) +	01-Oct-07	07-Apr-08	25.00	\$13,310	6.00	\$0	\$13,310	\$0	74.20																			
12222070	FTOF- Comp PMT Housing & Grounding Dsgn (DETCTR) +	01-Oct-07	07-Apr-08	25.00	\$20,521	10.00	\$0	\$20,521	\$0	74.20																			
12222075	PROC HTCC- Dsgn of Whole Module (DETCTR)	30-Sep-08	22-Jul-09	40.00	\$0	0.00	\$2,765	\$2,765	\$0	9.80																			
12222075a	FY08 Exp HTCC- Dsgn of Whole Module (DETCTR)	30-Sep-08	30-Sep-08	0.20	\$266	0.14	\$0	\$266	\$0	9.80																			
12222075b	FY09 Exp HTCC- Dsgn of Whole Module (DETCTR)	01-Oct-08	22-Jul-09	39.80	\$54,597	27.86	\$0	\$54,597	\$0	9.80																			
12222080	LTCC- Dsgn Extended Working Volume (DETCTR)	24-Aug-07	08-Feb-08	22.00	\$13,566	6.30	\$0	\$13,566	\$0	82.20																			
1222211005	SVT-Design overall layout (SILICON DTCTR)	02-Oct-06	11-May-07	30.00	\$20,609	10.74	\$0	\$20,609	\$0	45.60																			
1222211010	SVT-Design support structure (SILICON DTCTR)	14-May-07	27-Nov-07	27.40	\$23,601	12.27	\$0	\$23,601	\$0	45.60																			
1222211015	SVT- Design of the VME Board (SILICON DTCTR)	02-Oct-06	06-Apr-07	25.00	\$36,093	18.28	\$0	\$36,093	\$0	53.60</																			



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1222213015	DC- Design of the chamber & Stringing Fixture : Phase 2 (F DRFT CHAMB)	02-Apr-07	28-Sep-07	25.40	\$25,620	14.57	\$0	\$25,620	\$0	50.20																	
1222213020	DC-Design On-chamber Electronics: Phase 2 (F DRFT CHAMB)	02-Apr-07	28-Sep-07	25.40	\$27,123	20.71	\$0	\$27,123	\$0	50.20																	
1222213025M	FDC- FY07 Techncl Dsgn Report & Sfty Assessmnt (DETCTR)		28-Sep-07	0.00	\$0	0.00	\$0	\$0	\$0	50.20																	
1222223005	Designing the mounting (FCAL)	02-Oct-06	02-Mar-07	20.00	\$11,472	5.51	\$0	\$11,472	\$0	83.80																	
1222223010	Design Box with end plates (FCAL)	02-Oct-06	02-Mar-07	20.00	\$12,286	6.27	\$0	\$12,286	\$0	83.80																	
1222223015	Design scintillator holders (FCAL)	22-Dec-06	27-Mar-07	12.00	\$9,566	4.74	\$0	\$9,566	\$0	83.80																	
1222223020	Design lead sheets (FCAL)	26-Mar-07	20-Apr-07	4.00	\$3,692	1.62	\$0	\$3,692	\$0	83.80																	
1222223025	Design pmt holders fiber routing and light guides (FCAL)	02-Oct-06	02-Mar-07	20.00	\$8,162	4.60	\$0	\$8,162	\$0	90.80																	
1222223030	Design lifting plan and hardware (FCAL)	15-Nov-06	22-Jan-07	8.00	\$6,845	3.20	\$0	\$6,845	\$0	96.40																	
1222223030M	EC-FY07 technical design report and safety assessment (FCAL)		20-Apr-07	0.00	\$0	0.00	\$0	\$0	\$0	83.80																	
1222223040	EC- Dsgn of Lifting & Mounting Hardware (DETCTR)+	30-Jan-09	07-Jul-09	22.00	\$30,132	14.30	\$0	\$30,132	\$0	12.00																	
1222223041M	EC- Final Techncl Dsgn Report & Sfty Assessmnt (DETCTR)+		11-May-09	0.00	\$0	0.00	\$0	\$0	\$0	19.80																	
1222231005	Design of Light Guides (CTOF)	02-Oct-06	30-Mar-07	24.00	\$20,492	9.29	\$0	\$20,492	\$0	76.60																	
1222231010	Design of tools for the LG bending technique (CTOF)	02-Jan-07	21-Jun-07	24.00	\$20,421	9.30	\$0	\$20,421	\$0	65.00																	
1222231015	Design the support for the triplet with 1 m long bend LG's (CTOF)	15-Feb-07	14-Jun-07	16.80	\$20,197	9.48	\$0	\$20,197	\$0	66.00																	
1222231020M	CTOF-FY07 Techncl Dsgn Report & Sfty Assessmnt (DETCTR)		21-Jun-07	0.00	\$0	0.00	\$0	\$0	\$0	65.00																	
1222232005	Design of the backing structure for scintillators (FTOF)	02-Oct-06	06-Apr-07	25.00	\$17,105	7.67	\$0	\$17,105	\$0	98.60																	
1222232010	Design of the light guides (FTOF)	02-Oct-06	06-Apr-07	25.00	\$17,105	7.67	\$0	\$17,105	\$0	98.60																	
1222232015	Magnetic shielding design (FTOF)	02-Jan-07	28-Jun-07	25.00	\$17,041	7.67	\$0	\$17,041	\$0	87.00																	
1222232020	PMT housing and grounding design (FTOF)	15-Feb-07	28-Sep-07	31.60	\$16,657	7.67	\$0	\$16,657	\$0	74.20																	
1222232020M	FTOF- FY07 technical design report and safety assessment		28-Sep-07	0.00	\$0	0.00	\$0	\$0	\$0	74.20																	
1222232030	FTOF- Comp Dsgn of Light Guides (DETCTR) (FY-07) Notebook	09-Apr-07	03-Oct-07	25.00	\$11,489	5.00	\$0	\$11,489	\$0	98.60																	
1222241005	Design of the mirror 6 sectors (HTCC)	04-Jan-07	25-Jun-07	24.00	\$17,453	6.90	\$0	\$17,453	\$0	72.60																	
1222241010	Design of the Module (HTCC)	24-Jan-07	14-Jun-07	20.00	\$30,169	16.12	\$0	\$30,169	\$0	59.20																	
1222241015	Design of the Mounting Frames (HTCC)	15-Jun-07	28-Sep-07	14.80	\$17,758	9.97	\$0	\$17,758	\$0	59.20																	
1222241025M	FY07 technical design report and safety assessment (HTCC)		28-Sep-07	0.00	\$0	0.00	\$0	\$0	\$0	59.20																	
1222241035M	HTCC- Techncl Dsgn Report (DETCTR)+		22-Jul-09	0.00	\$0	0.00	\$0	\$0	\$0	9.80																	
1222242005	Design modification to the mirrors (LTCC)	04-Jan-07	11-Jun-07	22.00	\$5,281	7.67	\$0	\$5,281	\$0	82.20																	
1222242010	Design of the support structure (LTCC)	21-Mar-07	23-Aug-07	22.00	\$15,097	8.46	\$0	\$15,097	\$0	82.20																	
1222242015M	LTCC- FY07 Techncl Dsgn Report & Sfty Assessmnt (DETCTR)		23-Aug-07	0.00	\$0	0.00	\$0	\$0	\$0	82.20																	
142213009EX	FY09 Travel (FWD Chambers)	01-Oct-08	24-Dec-08	11.80	\$0	0.00	\$0	\$633	\$633	120.00																	
<b>1.2.2.2.3 COMPUTING</b>		<b>02-Oct-06</b>	<b>03-Sep-09</b>	<b>145.00</b>	<b>\$147,433</b>	<b>67.83</b>	<b>\$2,765</b>	<b>\$150,198</b>	<b>\$0</b>	<b>3.60</b>																	
12223025	Trigger- Compltn of L-1 Dsgn Scheme (COMPUTNG)	01-Oct-07	03-Jan-08	12.00	\$7,720	3.10	\$2,765	\$10,486	\$0	63.20																	
12223030	Trigger- Compltn of L-2 Dsgn Scheme (COMPUTNG)	04-Jan-08	31-Mar-08	12.00	\$8,715	3.50	\$0	\$8,715	\$0	63.20																	
12223035	Trigger- Compltn of Electronic Dsgn (COMPUTNG)	01-Apr-08	24-Jun-08	12.00	\$6,224	2.50	\$0	\$6,224	\$0	63.20																	
12223040M	CLAS12 Trigger Techncl Dsgn Report (COMPUTNG)+		24-Jun-08	0.00	\$0	0.00	\$0	\$0	\$0	63.20																	
12223045	CLAS12 Slow Control Dsgn Sys (COMPUTNG)++	01-Apr-09	03-Sep-09	22.00	\$29,976	21.00	\$0	\$29,976	\$0	3.60																	
122231005	Trigger- Level 1 design (TRGR SYS)	02-Oct-06	16-Mar-07	22.00	\$21,683	8.45	\$0	\$21,683	\$0	77.40																	
122231010	Trigger- Level 2 design (TRGR SYS)	21-Dec-06	26-Jun-07	25.00	\$43,119	16.88	\$0	\$43,119	\$0	63.20																	
122231015	Trigger- Electronic design (TRGR SYS)	27-Jun-07	28-Sep-07	13.20	\$29,995	12.41	\$0	\$29,995	\$0	63.20																	
122231020M	Trigger- Design Report (TRGR SYS)		28-Sep-07	0.00	\$0	0.00	\$0	\$0	\$0	63.20																	
<b>1.2.2.2.4 ELECTRONICS</b>		<b>04-Jan-08</b>	<b>24-Jun-08</b>	<b>24.00</b>	<b>\$15,692</b>	<b>6.30</b>	<b>\$2,765</b>	<b>\$18,458</b>	<b>\$0</b>	<b>5.20</b>																	
12224005	FADC Analysis (ADC) (ELECTRNC'S)++	04-Jan-08	24-Jun-08	24.00	\$15,692	6.30	\$2,765	\$18,458	\$0	5.20																	
<b>1.2.2.2.5 BEAMLIN</b>		<b>02-Oct-06</b>	<b>30-Sep-09</b>	<b>148.60</b>	<b>\$176,923</b>	<b>110.04</b>	<b>\$0</b>	<b>\$176,923</b>	<b>\$0</b>	<b>0.00</b>																	
12225015	Moller Polarimeter Optic Dsgn (BL)	01-Oct-08	25-Nov-08	8.00	\$9,411	5.00	\$0	\$9,411	\$0	33.60																	
12225020	Moller Polarimeter Mech Supprt (BL)+	26-Nov-08	02-Feb-09	8.00	\$10,953	5.60	\$0	\$10,953	\$0	33.60																	
12225025	Target- Layout (BL)	06-Oct-08	23-Dec-08	11.00	\$14,690	10.00	\$0	\$14,690	\$0	0.00																	
12225030	Target- Vac Sys Dsgn & Mech Supprt (BL)	24-Dec-08	15-May-09	19.00	\$23,728	15.00	\$0	\$23,728	\$0	0.00																	
12225035	Target- Dsgn of Cryogenic Sys (BL)	18-May-09	04-Aug-09	11.00	\$14,690	9.00	\$0	\$14,690	\$0	0.00																	
12225040	Target- Dsgn Control Sys (BL)+	05-Aug-09	30-Sep-09	8.00	\$14,947	9.10	\$0	\$14,947	\$0	0.00																	
12225045	BL COMPON- Beam Vac Sys (BL)	04-Jan-08	31-Mar-08	12.00	\$6,121	3.10	\$0	\$6,121	\$0	17.20																	
12225050	BL COMPON- Dsgn of BL Shielding (BL)+	30-Jun-08	23-Sep-08	12.00	\$10,854	5.00	\$0	\$10,854	\$0	50.60																	
122253000	Target- Design of Longitudinal polarized target (TARGETS)	04-Jan-07	07-Aug-07	30.00	\$50,819	24.46	\$0	\$50,819	\$0	57.60																	
122253005M	Target- Design Report (TARGETS)		07-Aug-07	0.00	\$0	0.00	\$0	\$0	\$0	57.60																	
122254005	BL-Shielding design for central detector (BL COMPON)	02-Oct-06	16-Mar-07	22.00	\$6,865	9.97	\$0	\$6,865	\$0	50.20																	

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023			
<b>1.2.2.2.6 INFRASTRUCTURE</b>																														
12226010	FY08 Exp Utilities Dsgn of Connections to Cryogenic systems (Utilities) (INFSTRCTR)+	01-Apr-08	13-Jul-09	64.00	\$298,458	146.00	\$0	\$298,458	\$0	11.20																				
12226010a	FY09 Exp Utilities Dsgn of Connections to Cryogenic systems (Utilities) (INFSTRCTR)+	01-Oct-08	16-Apr-09	26.40	\$35,136	17.26	\$0	\$35,136	\$0	23.20																				
12226015	FY08 Exp Dsgn Mech Supprt Frames for HTCC (INFSTRCTR)+	01-Apr-08	30-Sep-08	25.60	\$45,195	22.40	\$0	\$45,195	\$0	11.20																				
12226015a	FY09 Exp Dsgn Mech Supprt Frames for HTCC (INFSTRCTR)+	01-Oct-08	13-Jul-09	38.40	\$69,957	33.60	\$0	\$69,957	\$0	11.20																				
12226020	FY08 Exp Dsgn Mech Supprt Frames for Central Detector (INFSTRCTR)+	01-Apr-08	30-Sep-08	25.60	\$45,195	22.40	\$0	\$45,195	\$0	11.20																				
12226020a	FY09 Exp Dsgn Mech Supprt Frames for Central Detector (INFSTRCTR)+	01-Oct-08	13-Jul-09	38.40	\$69,957	33.60	\$0	\$69,957	\$0	11.20																				
<b>1.2.2.3 HALL C</b>																														
<b>1.2.2.3.1 MAGNET</b>																														
<b>1.2.2.3.1.1 Q-1 QUADRUPOLE</b>																														
122311007L	FY07 Overview entire PED project Q1-QUAD	02-Oct-06	28-Sep-07	49.40	\$0	0.00	\$0	\$0	\$0	0.00																				
122311010	Perform magnetic analysis and analyze tolerances Q1-QUAD	02-Oct-06	13-Apr-07	26.00	\$23,857	9.52	\$0	\$23,857	\$0	13.60																				
122311020	Design LN2 shield Q1-QUAD	02-Oct-06	03-Jan-07	12.00	\$14,883	8.00	\$0	\$14,883	\$0	3.40																				
122311030	Design control system Q1-QUAD	02-Oct-06	28-Nov-06	8.00	\$0	0.00	\$31,990	\$31,990	\$0	15.60																				
122311035	Trial Winding of Q1 Coil Q1-QUAD	04-Jan-07	08-Jun-07	21.80	\$0	0.00	\$35,000	\$35,000	\$0	3.40																				
122311045	P-1 Prepare reference design Q1-QUAD	06-Mar-07	28-Nov-07	37.40	\$45,620	19.16	\$0	\$45,620	\$0	3.40																				
122311045b	P-2 Prep reference Dsgn Q1-QUAD	29-Nov-07	30-May-08	24.40	\$9,120	4.00	\$0	\$9,120	\$0	3.40																				
122311045M	Reference Dsgn Comptd Q1-QUAD		30-May-08	0.00	\$0	0.00	\$0	\$0	\$0	3.40																				
122311047	Dsgn Vac Vessel Q1-QUAD	01-Oct-07	10-Jan-08	13.00	\$10,195	6.00	\$0	\$10,195	\$0	12.00																				
122311049	Dsgn Mag SupprtStand Q1-QUAD	11-Jan-08	31-Mar-08	11.00	\$17,766	10.00	\$0	\$17,766	\$0	12.00																				
122311050M	Start Bid Process Q1-QUAD	02-Jun-08		0.00	\$0	0.00	\$0	\$0	\$0	3.40																				
122311055	FY08 Exp Bid Process P-#1 Q1-QUAD	02-Jun-08	30-Sep-08	17.00	\$42,544	18.89	\$0	\$49,011	\$6,467	3.40																				
122311055a	FY09 Exp Bid Process P-#1 Q1-QUAD	01-Oct-08	26-Nov-08	8.20	\$21,176	9.11	\$0	\$24,395	\$3,219	3.40																				
122311056	Determine Best Offer P-#2 Q1-QUAD+	01-Dec-08	18-Feb-09	10.00	\$0	0.00	\$0	\$0	\$0	3.40																				
122311908L	FY08 Overview Entire PED Proj Q1-QUAD	01-Oct-07	30-Sep-08	49.60	\$64,512	25.90	\$0	\$64,512	\$0	0.00																				
14312909LC	Q1- FY09 Proj Mngmnt H-C upgrade	01-Oct-08	24-Dec-08	11.80	\$6,763	2.63	\$0	\$6,763	\$0	50.00																				
<b>1.2.2.3.1.2 HB/Q2-3/DIPOLE</b>																														
122312015	Optimise coil design analyze tolerances HB/Q2-3/Dipole	02-Oct-06	30-Mar-07	24.00	\$41,600	21.55	\$0	\$41,600	\$0	21.00																				
122312030	Design helium vessel (HB/Q2-3/Dipole)	02-Apr-07	24-May-07	7.80	\$5,767	3.30	\$30,000	\$35,767	\$0	21.00																				
122312035	Design LN2 shield HB/Q2-3/Dipole	30-Mar-07	21-Jun-07	11.80	\$23,477	13.00	\$0	\$23,477	\$0	21.00																				
122312045	P-1 Dsgn Mag Supprt & Stand Q2-3/Dipole	02-Aug-07	12-Sep-07	5.80	\$8,864	5.20	\$24,290	\$33,154	\$0	11.40																				
122312045b	P-2 Dsgn Mag Supprt & Stand Q2-3/Dipole	13-Sep-07	12-Nov-07	8.60	\$1,685	1.00	\$0	\$1,685	\$0	11.40																				
122312050	Prepare reference design Q2-3/Dipole	02-Oct-06	01-Aug-07	41.20	\$26,737	12.00	\$0	\$28,417	\$1,680	11.40																				
122312050M	Reference design completed Q2-3/Dipole		01-Aug-07	0.00	\$0	0.00	\$0	\$0	\$0	11.40																				
122312060	Optimize Coil Design for HB Magnet (HB)	02-Oct-06	07-Feb-07	16.80	\$20,195	9.03	\$0	\$20,195	\$0	50.20																				
122312062M	Start Bid Process Q2-3/Dipole	01-Oct-07		0.00	\$0	0.00	\$0	\$0	\$0	17.60																				
122312065	Bid Process P-#1 Q2-3/Dipole	13-Nov-07	11-Jun-08	28.00	\$21,014	11.00	\$0	\$36,070	\$15,055	11.40																				
122312070	Determine Best Offer P-#2 Q2-3/Dipole	12-Jun-08	05-Sep-08	12.00	\$0	0.00	\$0	\$0	\$0	11.40																				
122312074	Dsgn Cryostat for Horiz Bender (HB)	01-Oct-07	03-Jan-08	12.00	\$10,970	6.00	\$0	\$10,970	\$0	73.20																				
122312076	Dsgn quench Detection Sys for Horiz Bender (HB)	01-Oct-07	26-Nov-07	7.80	\$2,474	1.00	\$23,584	\$26,058	\$0	77.40																				
122312078	Dsgn Supprt & Stand for Horiz Bender (HB)	01-Oct-07	03-Jan-08	12.00	\$21,165	12.00	\$0	\$21,165	\$0	73.20																				
122312079	CR 07-005 Procurements P-1 Dipole	01-Oct-07	03-Mar-08	20.00	\$0	0.00	\$32,985	\$32,985	\$0	55.20																				
122312080	Prepare Preliminary Dsgn for HB	01-Oct-07	26-Mar-08	23.40	\$9,120	4.00	\$0	\$12,216	\$3,096	17.80																				
122312080a	Prepare Reference Dsgn for HB	01-May-08	14-Nov-08	27.80	\$0	0.00	\$90,000	\$90,000	\$0	29.00																				
122312080M	Reference Dsgn for Horiz Bender Comptd (HB)		14-Nov-08	0.00	\$0	0.00	\$0	\$0	\$0	29.00																				
122312084	CR 07-005 Procurements P-2 Dipole	04-Mar-08	23-Jul-08	20.00	\$0	0.00	\$32,985	\$32,985	\$0	55.20																				
122312090	Bid Process for Horiz Bender P-#1 (HB)	17-Nov-08	05-Feb-09	10.00	\$23,128	10.00	\$0	\$23,128	\$0	29.00																				
122312095	Determine Best Offer for Horiz Bender P-#2 (HB)	06-Feb-09	06-Mar-09	4.00	\$0	0.00	\$0	\$0	\$0	29.00																				
14315050x	Design Cryo Reservoirs for All Mag	01-Dec-08	01-Apr-09	16.00	\$77,196	34.00	\$0	\$77,196	\$0	79.80																				
14315055x	Design Iron Yoke for Q2/3 and Dipole	01-Dec-08	04-Mar-09	12.00	\$36,620	16.10	\$0	\$36,620	\$0	167.20																				
<b>1.2.2.3.2 DETECTOR</b>																														
12232015	P-2 Update & Rescale Existing Drawings (Wire CHAMB)+	01-Oct-08	01-Sep-09	45.60	\$5,141	2.00	\$0	\$5,141	\$0	0.00																				
12232020	P-3 Update & Rescale Existing Drawings (Wire CHAMB) +	02-Sep-09	30-Sep-09	4.00	\$2,570	1.00	\$0	\$2,570	\$0	0.00																				
122321005	P-1 Update and rescale existing drawings (WIRE CHAMB)	04-Jan-07	28-Sep-07	37.40	\$5,014	2.00	\$0	\$5,014	\$0	49.60																				



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023		
122323005b	P-2 Update Existing Drawings for Cerenkov (HIPRESS CRNKV)	01-Oct-08	15-Oct-08	2.20	\$771	0.30	\$0	\$771	\$0	5.40																			
122323015	Update Existing Drawers for Cerenkov (HIPRESS CRNKV)+	19-Feb-09	21-Aug-09	26.00	\$7,711	3.00	\$0	\$7,711	\$0	5.40																			
122324005	P-1 Prepare drawings for heavy gas Cerenkove (LOPRESS CRNKV)	05-Jan-09	19-Mar-09	10.40	\$4,370	1.70	\$0	\$4,370	\$0	13.00																			
122324005b	P-2 Prep Drawings for Heavy Gas Cerenkove (LOPRESS CRNKV)	20-Mar-09	03-Apr-09	2.20	\$771	0.30	\$0	\$771	\$0	13.00																			
122324015	Prep Drawings for Heavy Gas Cerenkove (LOPRESS CRNKV)+	06-Apr-09	29-Jun-09	12.00	\$7,711	3.00	\$0	\$7,711	\$0	13.00																			
122325005	Prepare drawings for final block arrangements (SHWR CNTR)	04-Jan-07	30-Mar-07	12.00	\$10,369	10.75	\$0	\$12,959	\$2,590	120.60																			
122325015	Prep Drawings for PM & Cable Arrangement (SHWR CNTR)	20-Oct-08	30-Apr-09	25.80	\$7,306	7.20	\$0	\$10,884	\$3,578	0.20																			
122325020	Dsgn Detector Frame (SHWR CNTR)++	01-May-09	29-Sep-09	21.00	\$0	0.00	\$19,167	\$19,167	\$0	0.20																			
<b>1.2.2.3.6 INFRASTRUCTURE</b>																													
12236010b	P-2 Dsgn Vac Sys (ENG&DES)+	01-Oct-08	14-Oct-08	2.00	\$885	0.50	\$0	\$3,014	\$2,130	47.60																			
12236015b	P-2 Dsgn Cryogenic Sys (ENG&DES)+	01-Oct-08	14-Oct-08	2.00	\$1,037	0.50	\$0	\$3,166	\$2,130	47.60																			
12236020	Dsgn Scattering Chamb (ENG&DES)+	01-Oct-08	28-Oct-08	4.00	\$6,060	3.00	\$0	\$8,189	\$2,130	45.60																			
12236025	Dsgn Beam Pipe & Stands (ENG&DES)+	01-Oct-08	02-Jan-09	12.00	\$12,119	6.00	\$0	\$14,249	\$2,130	37.60																			
12236030	PROC Continue Reference Dsgn & Drawings (SUP STRUCT)	18-Mar-08	05-Mar-09	48.00	\$0	0.00	\$25,560	\$25,560	\$0	0.20																			
12236030a	FY08 Exp Continue Reference Dsgn & Drawings (SUP STRUCT)	18-Mar-08	30-Sep-08	27.60	\$8,014	4.14	\$0	\$9,201	\$1,187	0.20																			
12236030b	FY09 Exp Continue Reference Dsgn & Drawings (SUP STRUCT)	01-Oct-08	05-Mar-09	20.40	\$6,113	3.06	\$0	\$7,018	\$905	0.20																			
12236035	Prep Bid Packages (SUP STRUCT)	06-Mar-09	26-Jun-09	16.00	\$12,119	6.00	\$0	\$15,846	\$3,727	0.20																			
12236035M	Start Bid Process (SUP STRUCT)	29-Jun-09		0.00	\$0	0.00	\$0	\$0	\$0	0.20																			
12236040	Determine Best Offer (SUP STRUCT)+	29-Jun-09	29-Sep-09	13.00	\$4,306	2.00	\$0	\$6,436	\$2,130	0.20																			
12236045	PROC Continue Reference Dsgn & Drawings (SHLD HOUSE)	01-Apr-08	19-Mar-09	48.00	\$0	0.00	\$21,298	\$21,298	\$0	0.00																			
12236045a	FY08 Exp Continue Reference Dsgn & Drawings (SHLD HOUSE)	01-Apr-08	30-Sep-08	25.60	\$4,451	2.13	\$0	\$5,552	\$1,101	0.00																			
12236045b	FY09 Exp Continue Reference Dsgn & Drawings (SHLD HOUSE)	01-Oct-08	19-Mar-09	22.40	\$4,019	1.87	\$0	\$5,012	\$994	0.00																			
12236050	Prep Bid Packages (SHLD HOUSE)	20-Mar-09	13-Jul-09	16.00	\$8,612	4.00	\$0	\$12,339	\$3,727	0.00																			
12236055M	Start Bid Process (SHLD HOUSE)	14-Jul-09		0.00	\$0	0.00	\$0	\$0	\$0	0.00																			
12236060	Determine Best Offer (SHLD HOUSE)+	14-Jul-09	30-Sep-09	11.20	\$4,306	2.00	\$0	\$6,436	\$2,130	0.00																			
122361010	P-1 Dsgn Vac Sys (ENG&DES)+	16-Apr-07	28-Sep-07	23.40	\$16,017	8.25	\$0	\$18,081	\$2,064	97.20																			
122361015	P-1 Dsgn Cryogenic Sys (ENG&DES)+	16-Apr-07	28-Sep-07	23.40	\$10,653	5.50	\$0	\$12,717	\$2,064	97.20																			
122362010	Hire subcontractor to prepare preliminary design (SUP STRUCT)	02-Oct-06	14-Feb-07	17.80	\$0	0.00	\$10,320	\$10,320	\$0	30.80																			
122362015	Approve preliminary design (SUP STRUCT)	15-Feb-07	22-Feb-07	1.00	\$4,244	2.00	\$0	\$6,308	\$2,064	30.80																			
122362020	Produce detailed design and drawings (SUP STRUCT)	01-Oct-07	17-Mar-08	22.00	\$18,936	9.85	\$27,345	\$46,282	\$0	0.20																			
122363010	Prepare preliminary drawings (SHLD HOUSE)	02-Oct-06	05-Feb-07	16.40	\$7,149	3.40	\$10,645	\$17,794	\$0	32.00																			
122363015	Approve preliminary design (SHLD HOUSE)	06-Feb-07	12-Feb-07	1.00	\$4,244	2.00	\$0	\$6,312	\$2,068	32.00																			
122363020	Prepare detailed design and drawings (SHLD HOUSE)	01-Oct-07	31-Mar-08	24.00	\$8,346	4.00	\$22,366	\$30,712	\$0	0.00																			
12236830LOE	FY09 Coordinate All SHMS Compts with Supprt Struct (ENG&DES)+	01-Oct-08	08-Jul-09	37.80	\$12,119	6.00	\$15,387	\$35,226	\$7,720	11.80																			
<b>1.2.3 HALL D</b>																													
<b>1.2.3.1 SOLENOID</b>																													
151009E5	FY09 Travel (SOLENOID)	01-Oct-08	24-Dec-08	11.80	\$0	0.00	\$0	\$287	\$287	86.20																			
<b>1.2.3.2 DETECTORS</b>																													
123211010	Fall Progress updates including safety assessment at Hall D collaboration meeting	15-Nov-06	30-Nov-06	2.00	\$0	0.00	\$0	\$0	\$0	113.60																			
123211010M	Fall Design updates based on collaboration assessment		15-Dec-06	0.00	\$0	0.00	\$0	\$0	\$0	113.60																			
123211020	Spring Progress updates including safety assessment at Hall D collaboration meeting	30-Apr-07	11-May-07	2.00	\$0	0.00	\$0	\$0	\$0	113.60																			
123211020M	Spring Safety Design Report updates based on collaboration assessment		15-May-07	0.00	\$0	0.00	\$0	\$0	\$0	113.60																			
<b>1.2.3.2.1 TRACKING</b>																													
12321017	Final Dsgn & Safty Assessmnt of Drift Chambs	16-Sep-08	29-Sep-08	2.00	\$0	0.00	\$0	\$0	\$0	47.20																			
12321018M	Drift Chamb Dsgn Rqurmnts Finalized++		16-Oct-08	0.00	\$0	0.00	\$0	\$0	\$0	47.20																			
123211015	Interim Design and Safety Assessment of drift chambers	15-Mar-07	28-Mar-07	2.00	\$0	0.00	\$0	\$0	\$0	90.80																			
123211015M	Interim Drift chamber design requirements updated		16-Apr-07	0.00	\$0	0.00	\$0	\$0	\$0	90.80																			
<b>1.2.3.2.1.1 FORWARD CHAMBERS</b>																													
123211005	Develop FDC design (FWD CHAMB)	02-Oct-06	01-Feb-07	15.80	\$10,033	17.84	\$0	\$10,033	\$0	67.80																			
123211025	Specify All FDC Chamb Matr'ls	01-Oct-07	04-Dec-07	9.00	\$0	10.00	\$0	\$0	\$0	67.60																			
123211030	Detail FDC Final Procedure for Chamb Wire Stringing, Constrctn, & Assy	01-Oct-07	04-Dec-07	9.00	\$0	10.00	\$0	\$0	\$0	67.60																			
123211035	Comp FDC Layout & Dsgn of on-board Electrc's	01-Oct-07	04-Dec-07	9.00	\$15,680	10.00	\$0	\$15,680	\$0	67.60																			
123211040	Dsgn FDC Gas Handling Sys	01-Oct-07	04-Dec-07	9.00	\$15,680	10.00	\$0	\$15,680	\$0	67.60																			
123211045	Finalize FDC Cable Spec's, Connectors, Routing, & Packing Decisions	01-Oct-07	04-Dec-07	9.00	\$12,074	7.70	\$0	\$12,074	\$0	67.60																			
123211050	Comp Final FDC Drawings	05-Dec-07	15-Feb-08	9.00	\$54,419	35.00	\$0	\$54,419	\$0	67.60																			
123211055	Detail FDC Final Procedures for Component Quality Control & Acceptance	19-Feb-08	21-Apr-08	9.00	\$0	19.10	\$0	\$0	\$0	67.60																			
12321105A	Develop FDC design (FWD CHAMB)	02-Feb-07*	28-Sep-07	33.40	\$50,101	25.80	\$0	\$50,101	\$0	67.6																			







Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023
12343005	Develop plans for trigger integration (TRGR)	02-Oct-06	01-Feb-07	15.80	\$0	2.85	\$0	\$0	\$0	22.80																	
12343005A	Develop plans for trigger integration (TRGR)	01-Feb-07	28-Sep-07	33.40	\$0	0.00	\$0	\$0	\$0	22.80																	
12345005	Integrate electronics subsystems (HV)	02-Oct-06	01-Feb-07	15.80	\$0	1.01	\$0	\$0	\$0	90.80																	
12345005A	Integrate electronics subsystems (HV)	01-Feb-07	28-Sep-07	33.40	\$0	0.00	\$0	\$0	\$0	90.80																	
1545009EX	FY09 Travel (LOGIC, HV)	01-Oct-08	24-Dec-08	11.80	\$0	0.00	\$0	\$304	\$304	68.80																	
<b>1.2.3.5 BEAMLINE</b>		02-Oct-06	20-May-09	130.20	\$401,888	330.55	\$54,629	\$456,517	\$0	18.40																	
<b>1.2.3.5.1 TAGGER</b>		02-Oct-06	21-Apr-09	126.00	\$229,559	233.65	\$54,629	\$284,188	\$0	22.60																	
12351054	Final Dsgn & Safty Assessmnt of Tagger	20-Mar-09	02-Apr-09	2.00	\$0	0.00	\$0	\$0	\$0	22.60																	
12351055M	Tagger Dsgn Rqurmnts Finalized++		21-Apr-09	0.00	\$0	0.00	\$0	\$0	\$0	22.60																	
<b>1.2.3.5.1.1 TAGGING MAGNET</b>		02-Oct-06	20-Nov-08	106.40	\$229,559	159.04	\$54,629	\$284,188	\$0	37.60																	
123511005	Develop design and procurement strategies (TAGMAG)	02-Oct-06	28-Sep-07	49.40	\$0	0.00	\$0	\$0	\$0	37.60																	
123511005A	Develop design and procurement strategies (TAGMAG)	02-Feb-07*	28-Sep-07	33.40	\$40,918	20.76	\$0	\$40,918	\$0	37.60																	
123511005L	Develop design and procurement strategies (TAGMAG)	02-Oct-06	01-Feb-07	15.80	\$24,495	14.78	\$0	\$24,495	\$0	37.60																	
123511010	Top Level Drawings of Quad, Two Dipoles & Vac Sys (TAG MAG)	11-Apr-07	13-Jun-07	9.00	\$2,754	11.50	\$0	\$2,754	\$0	37.60																	
123511015	Vertical Section through a Dipole Showing how Poleshoes & Yoke (TAG MAG)	14-Jun-07	16-Aug-07	9.00	\$24,040	15.00	\$0	\$24,040	\$0	37.60																	
123511020	Top view of a Dipole Showing bolt locations (TAG MAG)	17-Aug-07	19-Oct-07	9.00	\$24,028	15.00	\$0	\$24,028	\$0	37.60																	
123511025	Individual Drawings for Poleshoes (TAG MAG)	22-Oct-07	03-Jan-08	9.00	\$24,533	15.00	\$0	\$24,533	\$0	37.60																	
123511030	Drawings Showing All Different Types of Brackets (TAG MAG)	04-Jan-08	10-Mar-08	9.00	\$24,533	15.00	\$0	\$24,533	\$0	37.60																	
123511035	Layout of Vac Chamb (TAG MAG)	11-Mar-08	12-May-08	9.00	\$24,533	15.00	\$0	\$24,533	\$0	37.60																	
123511040	Drawings of Top & Bottom Lids, & Back-Wall of Vac Chamb (TAG MAG)	13-May-08	16-Jul-08	9.00	\$24,533	15.00	\$0	\$24,533	\$0	37.60																	
123511045	Drawings Showing Assy & Dis-assy of Mag (TAG MAG)	17-Jul-08	18-Sep-08	9.00	\$7,498	11.00	\$28,006	\$35,503	\$0	37.60																	
123511050	PROC Production of Drawings for Strong Back Supprt for Dipole Magnets. (TAG MAG)	19-Sep-08	20-Nov-08	9.00	\$0	0.00	\$26,623	\$26,623	\$0	37.60																	
123511050a	FY08 Exp Production of Drawings for Strong Back Supprt for Dipole Magnets. (TAG MAG)	19-Sep-08	30-Sep-08	1.60	\$1,333	1.96	\$0	\$1,333	\$0	37.60																	
123511050b	FY09 Exp Production of Drawings for Strong Back Supprt for Dipole Magnets. (TAG MAG)	01-Oct-08	20-Nov-08	7.40	\$6,364	9.04	\$0	\$6,364	\$0	37.60																	
<b>1.2.3.5.1.2 HODOSCOPE</b>		02-Oct-06	19-Mar-09	121.40	\$0	74.61	\$0	\$0	\$0	22.60																	
123512005	Develop design for the spectrometer hodoscope (HODO)	02-Oct-06	01-Feb-07	16.00	\$0	12.61	\$0	\$0	\$0	22.60																	
123512005A	Develop design for the spectrometer hodoscope (HODO)	02-Feb-07	28-Sep-07	33.40	\$0	0.00	\$0	\$0	\$0	22.60																	
123512010	Dsgn Light Guides for Microscope (HODO)	01-Oct-07	27-Nov-07	8.00	\$0	8.00	\$0	\$0	\$0	22.60																	
123512015	Dsgn Frame for Microscope (HODO)	28-Nov-07	01-Feb-08	8.00	\$0	8.00	\$0	\$0	\$0	22.60																	
123512020	Dsgn Frame for Fixed Array (HODO)	04-Feb-08	31-Mar-08	8.00	\$0	8.00	\$0	\$0	\$0	22.60																	
123512025	Dsgn Voltage Divider for Fixed Array PMT (HODO)	01-Apr-08	27-May-08	8.00	\$0	8.00	\$0	\$0	\$0	22.60																	
123512030	Dsgn Light Guides for Fixed Array (HODO)	28-May-08	23-Jul-08	8.00	\$0	8.00	\$0	\$0	\$0	22.60																	
123512035	Determine Assy Procedure for Fixed Array (HODO)	24-Jul-08	18-Sep-08	8.00	\$0	8.00	\$0	\$0	\$0	22.60																	
123512040	Dsgn Alignment for Microscope (HODO)	19-Sep-08	13-Nov-08	8.00	\$0	7.00	\$0	\$0	\$0	22.60																	
123512045	Dsgn Cable Layout for Microscope (HODO)	14-Nov-08	21-Jan-09	8.00	\$0	3.00	\$0	\$0	\$0	22.60																	
123512050	Dsgn Cable Layout for Fixed Array (HODO)	22-Jan-09	19-Mar-09	8.00	\$0	4.00	\$0	\$0	\$0	22.60																	
<b>1.2.3.5.3 BEAMLINE COMPONENTS</b>		02-Oct-06	20-May-09	130.20	\$172,329	96.90	\$0	\$172,329	\$0	18.40																	
12353005	Develop design for active collimator (BL COMPONENTS)	02-Oct-06	01-Feb-07	15.80	\$0	2.90	\$0	\$0	\$0	18.40																	
12353005A	Develop design for active collimator (BL COMPONENTS)	02-Feb-07*	04-Mar-08	53.60	\$3,042	8.00	\$0	\$3,042	\$0	18.40																	
12353010	Dsgn Active Collimator (BL Compnts)	04-Sep-07	28-Nov-07	12.00	\$0	12.20	\$0	\$0	\$0	18.40																	
12353015	Dsgn Photon Monitor (BL Compnts)	29-Nov-07	04-Mar-08	12.00	\$2,936	7.80	\$0	\$2,936	\$0	18.40																	
12353020	Dsgn Feedback Mechanism (BL Compnts)	05-Mar-08	07-Aug-08	22.00	\$54,798	22.00	\$0	\$54,798	\$0	18.40																	
12353025	FY08 Exp Dsgn Display of Beam Position (BL Compnts)	14-May-08	30-Sep-08	19.40	\$48,322	19.40	\$0	\$48,322	\$0	18.40																	
12353025a	FY09 Exp Dsgn Display of Beam Position (BL Compnts)	01-Oct-08	17-Oct-08	2.60	\$6,683	2.60	\$0	\$6,683	\$0	18.40																	
12353030	Dsgn BL Configuration (BL Compnts)	20-Oct-08	22-Jan-09	12.00	\$28,274	11.00	\$0	\$28,274	\$0	18.40																	
12353035	Integrate Goniometer into BL (BL Compnts)	23-Jan-09	17-Apr-09	12.00	\$28,274	11.00	\$0	\$28,274	\$0	18.40																	
12353040	Final Dsgn & Safty Assessmnt of Beam Line Compnts	20-Apr-09	01-May-09	2.00	\$0	0.00	\$0	\$0	\$0	18.40																	
12353045M	Beam Line Components Dsgn Rqurmnts Finalized		20-May-09	0.00	\$0	0.00	\$0	\$0	\$0	18.40																	
<b>1.2.3.6 INFRASTRUCTURE</b>		01-Oct-08	09-Jul-09	38.00	\$35,596	22.00	\$0	\$35,596	\$0	11.60																	
<b>1.2.3.6.1 ASSEMBLY</b>		01-Oct-08	09-Jul-09	38.00	\$35,596	22.00	\$0	\$35,596	\$0	11.60																	
12361000M	Starting Milestone for FY09 (Assy)	01-Oct-08		0.00	\$0	0.00	\$0	\$0	\$0	11.60																	
12361005	Develop Alignment of DCs (Assy)+	01-Oct-08	17-Feb-09	18.00	\$17,798	11.00	\$0	\$17,798	\$0	31.60																	
12361010	Develop Installtn of Bcal (Assy)+	04-Mar-09	09-Jul-09	18.00	\$17,798	11.00	\$0	\$17,798	\$0	11.60																	
<b>1.2.4 CONVENTIONAL FACILITIES</b>		02-Oct-06	24-Dec-08	110.80	\$478,317	206.69	\$456,181	\$956,465	\$21,966	37.80																	
<b>1.2.4.1 ACCELERATOR</b>		02-Oct-06	09-Jul-08	87.40	\$243,977	108.00	\$0	\$265,944	\$21,966	61.20																	
1241000M	Begin Design N&S Access Building Additions	02-Oct-06		0.00	\$0	0.00	\$0	\$0	\$0	28.00																	





Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023
1243010	Develop Hall D 60% Design (HALL D)	02-Oct-06	05-Dec-06	9.00	\$0	0.00	\$69,712	\$69,712	\$0	3.00																	
1243015	Conduct Hall D 60% Design & Safety Review	06-Dec-06	18-Jan-07	5.00	\$65,634	28.00	\$0	\$65,634	\$0	3.00																	
1243015M	60% Design Hall D Complete		18-Jan-07	0.00	\$0	0.00	\$0	\$0	\$0	3.00																	
1243018	Independent Cost Validation	23-Apr-07	20-Jun-07	8.40	\$0	0.00	\$37,000	\$37,000	\$0	18.60																	
1243020	Develop Hall D 100% Design (HALL D)	21-May-07	14-Aug-07	12.00	\$0	0.00	\$80,000	\$80,000	\$0	3.00																	
1243021	Develop Hall D Civil Commissioning Plan	21-May-07	14-Aug-07	12.00	\$0	0.00	\$20,000	\$20,000	\$0	3.00																	
1243025	Conduct Hall D 100% Design & Safety Review	15-Aug-07	10-Oct-07	8.00	\$41,085	17.00	\$36,000	\$77,085	\$0	3.00																	
1243025M	100% Design Hall D Complete		10-Oct-07	0.00	\$0	0.00	\$0	\$0	\$0	3.00																	
1243030	Develop Hall D Final Design (HALL D)	11-Oct-07	07-Nov-07	4.00	\$0	0.00	\$68,155	\$68,155	\$0	3.00																	
1243035	Conduct Hall D Final Design & Safety Review	08-Nov-07	30-Nov-07	3.00	\$14,868	6.00	\$0	\$14,868	\$0	3.00																	
1243040M	Complete Design Hall D Complete (HALL D)		30-Nov-07	0.00	\$0	0.00	\$0	\$0	\$0	3.00																	
1243045	Obtain Permit to Dispose of Dewater Effluent (HALL D)+	03-Dec-07	17-Apr-08	18.00	\$9,912	4.00	\$30,957	\$40,869	\$0	51.20																	
1243050	PROC Procurement Prep to Award Hall D Contract	02-Jan-08	07-Oct-08	39.00	\$0	0.00	\$25,798	\$25,798	\$0	27.20																	
1243050a	FY08 Exp Procurement Prep to Award Hall D Contract	02-Jan-08	30-Sep-08	38.00	\$33,840	13.64	\$0	\$33,840	\$0	27.20																	
1243050b	FY09 Exp Procurement Prep to Award Hall D Contract	01-Oct-08	07-Oct-08	1.00	\$919	0.36	\$0	\$919	\$0	27.20																	
1243055	Hall D Survey Network	04-Aug-08	29-Aug-08	4.00	\$12,787	7.00	\$6,000	\$18,787	\$0	32.40																	
<b>1.2.5 PROJECT MANAGEMENT</b>											24-Dec-08: 1.2.5 PROJECT MANAGEMENT																
<b>1.2.5.1 PED PROJECT MANAGEMENT PROJECT OFFICE (DIR, PM, APM'S)</b>											24-Dec-08: 1.2.5.1 PED PROJECT MANAGEMENT PROJECT OFFICE (DIR, PM, APM'S)																
1251006RKC	FY06 Obligations RKC	02-Oct-06	30-Mar-07	24.00	\$0	0.00	\$0	\$6,144	\$6,144	66.60																	
1251007LOE	FY07 Project Management Project Office	02-Oct-06	28-Sep-07	49.40	\$824,920	238.00	\$0	\$914,700	\$89,780	0.00																	
1251908LOE	FY08 PED Proj Office Proj Mngmnt P-1	01-Oct-07	30-Apr-08	28.40	\$562,401	161.93	\$0	\$629,473	\$67,073	0.00																	
1251908LOEB	FY08 PED Proj Office Proj Mngmnt P-2	01-May-08	30-Sep-08	21.20	\$264,515	87.23	\$0	\$314,583	\$50,068	0.00																	
171909LOEX	FY09 Constrcn Proj Office Proj Mngmnt	01-Oct-08	24-Dec-08	11.80	\$302,513	93.26	\$0	\$331,270	\$28,757	0.00																	
<b>1.2.5.2 PED PROJECT MANAGEMENT PROJECT OFFICE (OPM STAFF)</b>											30-Sep-08: 1.2.5.2 PED PROJECT MANAGEMENT PROJECT OFFICE (OPM STAFF)																
1252007LOE	FY07 Project Management Project Office	02-Oct-06	28-Sep-07	49.40	\$172,330	66.00	\$0	\$216,710	\$44,380	0.00																	
1252010	PREP for OECM EVMS Contractor Certification Review	17-Sep-07	09-Nov-07	8.00	\$0	0.00	\$0	\$0	\$0	6.20																	
1252015	OECM EVMS Contractor Certification REVIEW	03-Dec-07	07-Dec-07	1.00	\$0	0.00	\$0	\$0	\$0	6.20																	
1252908LOE	FY08 PED OPM Proj Mngmnt P-1	01-Oct-07	15-Apr-08	26.20	\$200,583	79.23	\$0	\$231,521	\$30,939	0.00																	
1252908LOEB	FY08 PED OPM Proj Mngmnt P-2	16-Apr-08	30-Sep-08	23.40	\$0	0.00	\$0	\$0	\$0	0.00																	
<b>1.2.6 ACCELERATOR SYSTEMS COMMISSIONING PLANNING</b>											11-Jun-09: 1.2.6 ACCELERATOR SYSTEMS COMMISSIONING PLANNING																
126000M	Start Milestone for Commissioning PED (ACC SYS COMMIS PLNNG)	01-Nov-06		0.00	\$0	0.00	\$0	\$0	\$0	55.60																	
126005	Develop draft commissioning plan for EIR (ACC SYS COMMIS PLNNG)	01-Nov-06	15-May-07	26.00	\$8,913	3.48	\$0	\$8,913	\$0	55.60																	
126010	Preliminary Design & Safety Review for Commissioning Plan (ACC SYS COMMIS PLNNG)	16-May-07	16-May-07	0.20	\$22,554	8.87	\$0	\$22,554	\$0	55.60																	
126015	Post-review development of Commissioning Plan (ACC SYS COMMIS PLNNG)	17-May-07	31-May-07	2.00	\$1,769	0.70	\$0	\$1,769	\$0	55.60																	
126020M	Draft commissioning plan ready for EIR (ACC SYS COMMIS PLNNG)		31-May-07	0.00	\$0	0.00	\$0	\$0	\$0	55.60																	
126025M	Start of FY08 Commssng Planning (ACC SYS COMMIS PLNNG)	27-Mar-08		0.00	\$0	0.00	\$0	\$0	\$0	15.40																	
126030	Development of Sys's Cmmssng Milestones (ACC SYS COMMIS PLNNG)	27-Mar-08	29-Sep-08	26.00	\$26,200	11.00	\$0	\$26,200	\$0	15.40																	
126035M	Comp Draft Sys's Cmmssng Milestones (ACC SYS COMMIS PLNNG)		29-Sep-08	0.00	\$0	0.00	\$0	\$0	\$0	15.40																	
126040	Review of Sys Milestones with Sys owners (ACC SYS COMMIS PLNNG)	30-Sep-08	30-Sep-08	0.20	\$4,763	2.00	\$0	\$4,763	\$0	15.40																	
126045	Incorporate Changes from Review of Sys's Milestones (ACC SYS COMMIS PLNNG)	01-Oct-08	28-Oct-08	4.00	\$9,849	4.00	\$0	\$9,849	\$0	15.40																	
126060	Development of Beam-Based Cmmssng Plan (ACC SYS COMMIS PLNNG)	29-Oct-08	12-May-09	26.00	\$41,535	17.00	\$0	\$41,535	\$0	15.40																	
126065M	Comp Draft Beam-Based Cmmssng Plan (ACC SYS COMMIS PLNNG)		12-May-09	0.00	\$0	0.00	\$0	\$0	\$0	15.40																	
126070	Review of Beam-Based Cmmssng Plan (ACC SYS COMMIS PLNNG)	13-May-09	13-May-09	0.20	\$2,011	0.80	\$0	\$2,011	\$0	15.40																	
126075	Incorporate Changes from Review of Beam-Based Plan (ACC SYS COMMIS PLNNG)	14-May-09	11-Jun-09	4.00	\$9,849	4.00	\$0	\$9,849	\$0	15.40																	
126080M	Comp Cmmssng Plan (ACC SYS COMMIS PLNNG)		11-Jun-09	0.00	\$0	0.00	\$0	\$0	\$0	15.40																	
<b>1.3 CONSTRUCTION ACCELERATOR SYSTEMS</b>											31-Oct-14: 1.3 CONSTRUCTION ACCELERATOR SYSTEMS																
<b>1.3.1 CRYOMODULES</b>											17-Apr-13: 1.3.1 CRYOMODULES																
<b>1.3.1.1 PROCUREMENTS</b>											24-Oct-11: 1.3.1.1 PROCUREMENTS																
<b>1.3.1.1.1 CAVITY STRING PROCUREMENTS</b>											03-Oct-11: 1.3.1.1.1 CAVITY STRING PROCUREMENTS																
<b>1.3.1.1.1.1 NIOBIUM</b>											30-Sep-10: 1.3.1.1.1.1 NIOBIUM																
13111010	Proc Niobium	05-Jan-09	05-Jan-09	0.20	\$2,778	1.40	\$0	\$2,778	\$0	105.40																	
13111011	Niobium Labor and Expenses Initial	06-Jan-09	29-May-09	20.20	\$26,445	9.60	\$0	\$28,932	\$2,487	105.40																	
13111011L	Niobium Labor and Expenses Final FY09	15-Jul-09	30-Sep-09	11.00	\$2,313	0.85	\$0	\$2,828	\$514	105.40																	
13111011L	Niobium Labor and Expenses Final FY10	01-Oct-09	03-Mar-10	20.00	\$4,337	1.55	\$0	\$5,302	\$965	105.40																	
13111012	Expenses Niobium Batch 1	06-Jan-09	29-May-09	20.20	\$0	0.00	\$0	\$2,295	\$2,295	142.60																	
13111012A	Vend Fab - Order Niobium	15-Jul-09	10-Aug-09	3.80	\$0	0.00	\$355,042	\$355,042	\$0	132.60																	
13111012B	Vend Fab - Niobium Batch 1	15-Jul-09	11-Nov-09	17.00	\$0	0.00	\$634,004	\$634,004	\$0	115.40																	
13111013	Expenses Niobium Batch 2	06-Jan-09	29-May-09	20.20	\$0	0.00	\$0	\$2,295	\$2,295	142.60																	

█ Primary Baseline   
 █ Remaining Work   
 ◆ Baseline Milestone  
█ Actual Work   
 █ Critical Remaining Work   
 ◆ Milestone



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	
13111013A	Vend Fab - Niobium Batch 2	15-Jul-09	11-Feb-10	28.40	\$0	0.00	\$1,546,970	\$1,546,970	\$0	106.00																		
13111013B	Vend Fab - Niobium Batch 2 Reverse Entry per CR 10-043	01-Mar-10	01-Mar-10	0.20	\$0	0.00	(\$1,546,970)	(\$1,546,970)	\$0	105.60																		
13111013C	Vend Fab - Niobium Batch 2 Revised Delivery per CR 10-043	01-Mar-10	30-Sep-10	30.20	\$0	0.00	\$1,546,970	\$1,546,970	\$0	75.80																		
13111015	Receive & Insp Niobium Batch 1	12-Nov-09	11-Dec-09	4.00	\$55,477	21.00	\$0	\$60,015	\$4,538	115.40																		
13111020	Receive & Insp Niobium Batch 2 (Original History)	12-Feb-10	26-Feb-10	2.00	\$18,858	9.50	\$0	\$20,259	\$1,401	106.00																		
13111020A	Receive & Insp Niobium Batch 2 Reverse Entry per CR 10-043	02-Mar-10	02-Mar-10	0.20	(\$18,858)	-9.50	\$0	(\$20,259)	(\$1,401)	105.60																		
13111020B	Receive & Insp Niobium Batch 2 Revised Delivery per CR 10-043	17-Sep-10	30-Sep-10	2.00	\$37,716	19.00	\$0	\$40,518	\$2,802	75.80																		
<b>1.3.1.1.1.2 CAVITY FABRICATION</b>		05-Jan-09	03-Oct-11	137.00	\$518,070	226.35	\$4,381,371	\$4,922,733	\$23,292	26.00																		
<b>1.3.1.1.1.2.1 VEND FAB CAVITIES</b>		05-Jan-09	22-Sep-11	135.60	\$79,262	29.60	\$4,381,371	\$4,460,633	\$0	27.40																		
1311121010	Proc Cavity Fab	05-Jan-09	09-Jan-09	1.00	\$4,306	2.00	\$0	\$4,306	\$0	33.80																		
1311121015	Cavities Labor Initial	12-Jan-09	29-May-09	19.40	\$19,865	7.55	\$0	\$19,865	\$0	33.80																		
131112101	Cavities Labor Final FY09	15-Jul-09	30-Sep-09	11.00	\$2,143	0.80	\$0	\$2,143	\$0	33.80																		
131112101	Cavities Labor Final FY10	01-Oct-09	30-Sep-10	49.60	\$9,970	3.60	\$0	\$9,970	\$0	33.80																		
131112101	Cavities Labor Final FY11	01-Oct-10	08-Aug-11	42.00	\$8,711	3.05	\$0	\$8,711	\$0	33.80																		
1311121016	Vend Fab Cavities 1 & 2	15-Jul-09	30-Jun-10	47.80	\$0	0.00	\$83,288	\$83,288	\$0	10.60																		
1311121017	Vend Fab Chemistry & Tuning Cavities 1 & 2	04-Jan-10	30-Jun-10	25.00	\$0	0.00	\$17,442	\$17,442	\$0	10.60																		
1311121020	Vend Fab Cavities 3 thru 8	15-Jul-09	30-Jul-10	52.00	\$0	0.00	\$249,864	\$249,864	\$0	8.00																		
1311121021	Vend Fab Chemistry & Tuning Cavities 3 thru 8	04-Jan-10	30-Jul-10	29.20	\$0	0.00	\$52,325	\$52,325	\$0	8.00																		
1311121025	Vend Fab Cavities 9 thru 14	15-Jul-09	30-Jul-10	52.00	\$0	0.00	\$249,864	\$249,864	\$0	16.00																		
1311121026	Vend Fab Chemistry & Tuning Cavities 9 thru 14	04-Jan-10	30-Jul-10	29.20	\$0	0.00	\$52,325	\$52,325	\$0	16.00																		
1311121030	Vend Fab Cavities 15 thru 20	15-Jul-09	31-Aug-10	56.40	\$0	0.00	\$249,864	\$249,864	\$0	14.60																		
1311121031	Vend Fab Chemistry & Tuning Cavities 15 thru 20	04-Jan-10	31-Aug-10	33.60	\$0	0.00	\$52,325	\$52,325	\$0	14.60																		
1311121035	Vend Fab Cavities 21 thru 26	15-Jul-09	30-Sep-10	60.60	\$0	0.00	\$249,864	\$249,864	\$0	27.60																		
1311121036	Vend Fab Chemistry & Tuning Cavities 21 thru 26	04-Jan-10	30-Sep-10	37.80	\$0	0.00	\$52,325	\$52,325	\$0	27.60																		
1311121040	Vend Fab Cavities 27 thru 32	15-Jul-09	29-Oct-10	64.80	\$0	0.00	\$249,864	\$249,864	\$0	26.80																		
1311121041	Vend Fab Chemistry & Tuning Cavities 27 thru 32	04-Jan-10	29-Oct-10	42.00	\$0	0.00	\$52,325	\$52,325	\$0	26.80																		
1311121045	Vend Fab Cavities 33 thru 38	15-Jul-09	30-Dec-10	72.20	\$0	0.00	\$249,864	\$249,864	\$0	26.00																		
1311121046	Vend Fab Chemistry & Tuning Cavities 33 thru 38	04-Jan-10	30-Dec-10	49.40	\$0	0.00	\$52,325	\$52,325	\$0	26.00																		
1311121050	Vend Fab Cavities 39 thru 44	15-Jul-09	31-Jan-11	76.20	\$0	0.00	\$249,864	\$249,864	\$0	25.80																		
1311121051	Vend Fab Chemistry & Tuning Cavities 39 thru 44	04-Jan-10	31-Jan-11	53.40	\$0	0.00	\$52,325	\$52,325	\$0	25.80																		
1311121055	Vend Fab Cavities 45 thru 50	15-Jul-09	28-Feb-11	80.00	\$0	0.00	\$249,864	\$249,864	\$0	21.80																		
1311121056	Vend Fab Chemistry & Tuning Cavities 45 thru 50	04-Jan-10	28-Feb-11	57.20	\$0	0.00	\$52,325	\$52,325	\$0	21.80																		
1311121060	Vend Fab Cavities 51 thru 56	15-Jul-09	31-Mar-11	84.60	\$0	0.00	\$249,864	\$249,864	\$0	22.20																		
1311121061	Vend Fab Chemistry & Tuning Cavities 51 thru 56	04-Jan-10	31-Mar-11	61.80	\$0	0.00	\$52,325	\$52,325	\$0	22.20																		
1311121065	Vend Fab Cavities 57 thru 62	15-Jul-09	29-Apr-11	88.80	\$0	0.00	\$249,864	\$249,864	\$0	22.00																		
1311121066	Vend Fab Chemistry & Tuning Cavities 57 thru 62	04-Jan-10	29-Apr-11	66.00	\$0	0.00	\$52,325	\$52,325	\$0	22.00																		
1311121070	Vend Fab Cavities 63 thru 68	15-Jul-09	31-May-11	93.00	\$0	0.00	\$249,864	\$249,864	\$0	21.00																		
1311121071	Vend Fab Chemistry & Tuning Cavities 63 thru 68	04-Jan-10	31-May-11	70.20	\$0	0.00	\$52,325	\$52,325	\$0	21.00																		
1311121075	Vend Fab Cavities 69 thru 74	15-Jul-09	30-Jun-11	97.40	\$0	0.00	\$249,864	\$249,864	\$0	24.60																		
1311121076	Vend Fab Chemistry & Tuning Cavities 69 thru 74	04-Jan-10	30-Jun-11	74.60	\$0	0.00	\$52,325	\$52,325	\$0	24.60																		
1311121080	Vend Fab Cavities 75 thru 80	15-Jul-09	29-Jul-11	101.40	\$0	0.00	\$249,864	\$249,864	\$0	23.80																		
1311121081	Vend Fab Chemistry & Tuning Cavities 75 thru 80	04-Jan-10	29-Jul-11	78.60	\$0	0.00	\$52,325	\$52,325	\$0	23.80																		
1311121085	Vend Fab Cavities 81 thru 86	15-Jul-09	31-Aug-11	106.00	\$0	0.00	\$249,864	\$249,864	\$0	22.20																		
1311121086	Vend Fab Chemistry & Tuning Cavities 81 thru 86	04-Jan-10	31-Aug-11	83.20	\$0	0.00	\$52,325	\$52,325	\$0	22.20																		
1311121091	Cavities Custom Duty Adjustment	01-Jul-10	31-Aug-11	58.20	\$0	0.00	\$50,000	\$50,000	\$0	21.00																		
131112109	SOTR Oversight FY10	01-Jul-10	30-Sep-10	12.80	\$6,896	2.60	\$0	\$6,896	\$0	27.40																		
131112110	SOTR Oversight FY11	01-Oct-10	22-Sep-11	48.40	\$27,372	10.00	\$0	\$27,372	\$0	27.40																		
<b>1.3.1.1.1.2.2 RECEIVE AND INSPECT CAVITIES</b>		11-Jun-10	03-Oct-11	65.40	\$438,808	196.75	\$0	\$462,100	\$23,292	26.00																		
1311122005	Receive and Inspect Cavities 1 & 2	11-Jun-10	24-Jun-10	2.00	\$15,603	6.80	\$0	\$16,119	\$515	10.60																		
1311122010	Receive and Inspect Cavities 3 Thru 8	15-Jul-10	04-Aug-10	3.00	\$41,137	18.45	\$0	\$42,683	\$1,546	8.00																		
1311122015	Receive and Inspect Cavities 9 Thru 14	10-Sep-10	30-Sep-10	3.00	\$34,712	15.45	\$0	\$36,259	\$1,546	7.40																		
1311122020	Receive and Inspect Cavities 15 and 16	01-Oct-10	07-Oct-10	1.00	\$11,940	5.15	\$0	\$12,472	\$532	7.40																		
1311122022	Receive and Inspect Cavities 17 Thru 20	08-Oct-10	21-Oct-10	2.00	\$23,463</																							





Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023
131114025	Vend Fab - Helium Vessels 17 Thru 24	01-Jun-09	13-Oct-09	19.00	\$0	0.00	\$19,593	\$19,593	\$0	73.20																	
131114030	Vend Fab - Helium Vessels 25 Thru 32	01-Jun-09	03-Nov-09	22.00	\$0	0.00	\$19,593	\$19,593	\$0	77.80																	
131114035	Vend Fab - Helium Vessels 33 Thru 40	01-Jun-09	24-Nov-09	25.00	\$0	0.00	\$19,593	\$19,593	\$0	80.00																	
131114040	Vend Fab - Helium Vessels 41 Thru 48	01-Jun-09	17-Dec-09	28.00	\$0	0.00	\$19,593	\$19,593	\$0	81.80																	
131114045	Vend Fab - Helium Vessels 49 Thru 56	01-Jun-09	16-Feb-10	35.00	\$0	0.00	\$19,593	\$19,593	\$0	79.60																	
131114050	Vend Fab - Helium Vessels 57 Thru 64	01-Jun-09	09-Mar-10	38.00	\$0	0.00	\$19,593	\$19,593	\$0	81.40																	
131114055	Vend Fab - Helium Vessels 65 Thru 72	01-Jun-09	30-Mar-10	41.00	\$0	0.00	\$19,593	\$19,593	\$0	89.40																	
131114060	Vend Fab - Helium Vessels 73 Thru 80	01-Jun-09	20-Apr-10	44.00	\$0	0.00	\$19,593	\$19,593	\$0	90.20																	
131114065	Vend Fab - Helium Vessels 81 Thru 90	01-Jun-09	11-May-10	47.00	\$0	0.00	\$24,491	\$24,491	\$0	88.20																	
131114070	Receive & Insp Helium Vessels 1 & 2	11-Aug-09	24-Aug-09	2.00	\$1,347	0.70	\$0	\$1,560	\$213	57.20																	
131114075	Receive & Insp Helium Vessels 3 Thru 8	01-Sep-09	08-Sep-09	1.00	\$4,040	2.10	\$0	\$4,359	\$319	56.20																	
131114080	Receive & Insp Helium Vessels 9 Thru 16	23-Sep-09	29-Sep-09	1.00	\$4,755	2.44	\$0	\$5,181	\$426	58.20																	
131114085	Receive & Insp Helium Vessels 17 thru 24	14-Oct-09	20-Oct-09	1.00	\$3,952	2.04	\$0	\$4,392	\$440	73.20																	
131114090	Receive & Insp Helium Vessels 25 Thru 32	04-Nov-09	10-Nov-09	1.00	\$4,019	2.07	\$0	\$4,458	\$440	77.80																	
131114095	Receive & Insp Helium Vessels 33 Thru 40	25-Nov-09	03-Dec-09	1.00	\$3,215	1.76	\$0	\$3,654	\$440	80.00																	
131114100	Receive & Insp Helium Vessels 41 thru 48	18-Dec-09	31-Dec-09	1.00	\$3,215	1.76	\$0	\$3,654	\$440	81.80																	
131114105	Receive & Insp Helium Vessels 49 Thru 56	17-Feb-10	23-Feb-10	1.00	\$3,215	1.76	\$0	\$3,654	\$440	79.60																	
131114110	Receive & Insp Helium Vessels 57 Thru 64	10-Mar-10	16-Mar-10	1.00	\$3,215	1.76	\$0	\$3,654	\$440	81.40																	
131114115	Receive & Insp Helium Vessels 65 thru 72	31-Mar-10	06-Apr-10	1.00	\$3,215	1.76	\$0	\$3,654	\$440	89.40																	
131114120	Receive & Insp Helium Vessels 73 thru 80	21-Apr-10	27-Apr-10	1.00	\$3,215	1.76	\$0	\$3,654	\$440	90.20																	
131114125	Receive & Insp Helium Vessels 81 Thru 90	12-May-10	18-May-10	1.00	\$3,215	1.76	\$0	\$3,654	\$440	88.20																	
131114130	Vend Fab 10 CFR 851 Compliance	01-Jul-10	31-Mar-11	36.80	\$0	0.00	\$275,000	\$275,000	\$0	45.40																	
131114130M	All Helium Vessels Received and Inspected	01-Jul-10	31-Mar-11	0.00	\$0	0.00	\$0	\$0	\$0	45.40																	
<b>1.3.1.1.1.5 HARDWARE</b>		<b>02-Mar-09</b>	<b>02-Sep-09</b>	<b>26.20</b>	<b>\$17,772</b>	<b>9.00</b>	<b>\$37,269</b>	<b>\$55,041</b>	<b>\$0</b>	<b>107.80</b>																	
131115010	Proc Hardware	02-Mar-09	01-May-09	9.00	\$4,306	2.00	\$0	\$4,306	\$0	71.20																	
131115012	Vend Fab - Hardware (Phase 1)	01-May-09	12-Jun-09	6.00	\$2,962	1.50	\$18,634	\$21,596	\$0	71.20																	
131115013	Vend Fab - Hardware (Phase 2)	15-Jun-09	28-Jul-09	6.20	\$2,962	1.50	\$18,634	\$21,596	\$0	107.80																	
131115015	Receive & Insp Hardware (Phase 1)	29-Jun-09	21-Jul-09	3.20	\$3,771	2.00	\$0	\$3,771	\$0	71.20																	
131115016	Receive & Insp Hardware (Phase 2)	12-Aug-09	02-Sep-09	3.20	\$3,771	2.00	\$0	\$3,771	\$0	107.80																	
<b>1.3.1.1.1.6 MISC</b>		<b>16-Mar-09</b>	<b>30-Dec-10</b>	<b>89.20</b>	<b>\$123,680</b>	<b>55.96</b>	<b>\$47,917</b>	<b>\$172,667</b>	<b>\$1,070</b>	<b>42.80</b>																	
131116010	Proc Misc	16-Mar-09	01-Jun-09	11.00	\$4,393	2.40	\$0	\$4,393	\$0	64.80																	
131116012	Vend Fab - Misc (Phase 1)	01-Jun-09	11-Aug-09	10.20	\$2,962	1.50	\$23,958	\$27,453	\$532	64.80																	
131116013	Vend Fab - Misc (Phase 2) Labor FY09	12-Aug-09	30-Sep-09	7.00	\$2,033	1.03	\$0	\$2,399	\$365	97.40																	
131116013b	Vend Fab - Misc (Phase 2) Labor FY10	01-Oct-09	22-Oct-09	3.20	\$958	0.47	\$0	\$1,131	\$172	97.40																	
131116013c	Vend Fab - Misc (Phase 2) Procurement	12-Aug-09	22-Oct-09	10.20	\$0	0.00	\$23,958	\$23,958	\$0	97.40																	
131116015	Receive & Insp Misc (Phase 1)	12-Aug-09	03-Sep-09	3.40	\$3,771	2.00	\$0	\$3,771	\$0	64.80																	
131116016	Receive & Insp Misc (Phase 2)	23-Oct-09	16-Nov-09	3.40	\$3,891	2.00	\$0	\$3,891	\$0	97.40																	
131116020	QC Traveler FY10	01-Apr-10	30-Sep-10	25.60	\$53,633	23.56	\$0	\$53,633	\$0	25.20																	
131116025	QC Traveler FY11	01-Oct-10	30-Dec-10	11.60	\$52,039	23.00	\$0	\$52,039	\$0	25.20																	
<b>1.3.1.1.2 SPACE FRAME PROCUREMENTS</b>		<b>02-Feb-09</b>	<b>31-Aug-11</b>	<b>128.80</b>	<b>\$147,240</b>	<b>66.50</b>	<b>\$1,342,627</b>	<b>\$1,558,079</b>	<b>\$68,211</b>	<b>79.80</b>																	
<b>1.3.1.1.2.1 SPACE FRAME</b>		<b>02-Feb-09</b>	<b>29-Apr-11</b>	<b>111.60</b>	<b>\$52,163</b>	<b>22.10</b>	<b>\$375,579</b>	<b>\$462,119</b>	<b>\$34,376</b>	<b>89.20</b>																	
131121010	Proc Space Frames	02-Feb-09	03-Aug-09	25.60	\$2,424	1.20	\$0	\$2,424	\$0	3.80																	
131121010A	Vendor Fab Space Frames Labor FY09	27-Aug-09	30-Sep-09	4.80	\$955	0.38	\$0	\$2,603	\$1,648	89.20																	
131121010B	Vendor Fab Space Frames Labor FY10	01-Oct-09	30-Sep-10	49.60	\$10,452	3.98	\$0	\$28,680	\$18,229	89.20																	
131121010C	Vendor Fab Space Frames Labor FY11	01-Oct-10	29-Apr-11	28.20	\$4,467	1.65	\$0	\$12,248	\$7,781	89.20																	
131121011	Vend Fab Space Frames 10% of Material Costs	27-Aug-09	29-Jan-10	20.40	\$0	0.00	\$18,643	\$18,643	\$0	54.80																	
131121015	Vend Fab Space Frames 50% OF Cost (Fab/Ship) 1st Article	27-Aug-09	29-Mar-10	28.40	\$0	0.00	\$22,260	\$22,260	\$0	46.80																	
131121016	Vend Fab Space Frames 50% OF Cost (Fab/Ship) Upon Receipt of 1st Article	27-Aug-09	30-Apr-10	33.20	\$0	0.00	\$22,260	\$22,260	\$0	42.00																	
131121016A	Vend Fab Space Frames Production 90% of Material	27-Aug-09	31-Mar-10	28.80	\$0	0.00	\$167,786	\$167,786	\$0	66.20																	
131121016B	Vend Fab Space Frames Deliver Space Frame #2	27-Aug-09	30-Jun-10	41.60	\$0	0.00	\$16,070	\$16,070	\$0	39.10																	
131121016C	Vend Fab Space Frames Deliver Space Frame #3	27-Aug-09	30-Jul-10	45.80	\$0	0.00	\$16,070	\$16,070	\$0	49.20																	
131121016D	Vend Fab Space Frames Deliver Space Frame #4	27-Aug-09	31-Aug-10	50.20	\$0	0.00	\$16,070	\$16,070	\$0	49.80																	
131121016F	Vend Fab Space Frames Deliver Space Frame #5	27-Aug-09	30-Sep-10	54.40	\$0	0.00	\$16,070	\$16,070	\$0	56.60																	
131121016G	Vend Fab Space Frames Deliver Space Frame #6	27-Aug-09	29-Oct-10	5																							

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
131121016L	Vend Fab Space Frames Deliver Space Frame #10	27-Aug-09	28-Feb-11	73.80	\$0	0.00	\$16,070	\$16,070	\$0	94.00																		
131121020	Receive & Insp Space Frame First Article (Lab Labor)	03-May-10	28-May-10	4.00	\$3,209	1.56	\$0	\$3,868	\$659	42.00																		
131121021	Receive & Insp Space Frame #2	01-Jul-10	29-Jul-10	4.00	\$2,567	1.25	\$0	\$3,226	\$659	39.10																		
131121022	Receive & Insp Space Frame #3	02-Aug-10	27-Aug-10	4.00	\$2,139	1.04	\$0	\$2,799	\$659	49.20																		
131121025	Receive & Insp Space Frame #4	01-Sep-10	29-Sep-10	4.00	\$1,925	0.94	\$0	\$2,585	\$659	49.80																		
131121026	Receive & Insp Space Frame #5	01-Oct-10	28-Oct-10	4.00	\$1,987	0.94	\$0	\$2,667	\$680	56.60																		
131121027	Receive & Insp Space Frame #6	01-Nov-10	30-Nov-10	4.00	\$1,987	0.94	\$0	\$2,667	\$680	69.00																		
131121028	Receive & Insp Space Frame #7	01-Dec-10	05-Jan-11	4.00	\$1,987	0.94	\$0	\$2,667	\$680	79.80																		
131121029	Receive & Insp Space Frame #8	01-Feb-11	01-Mar-11	4.00	\$1,987	0.94	\$0	\$2,667	\$680	84.20																		
131121030	Receive & Insp Space Frame #9	02-Mar-11	29-Mar-11	4.00	\$1,987	0.94	\$0	\$2,667	\$680	89.30																		
131121035	Receive & Insp Space Frame #10	30-Mar-11	26-Apr-11	4.00	\$1,987	0.94	\$0	\$2,667	\$680	89.80																		
131121040L	SOTR Oversight FY10	01-Jul-10	30-Sep-10	12.80	\$3,951	1.50	\$0	\$3,951	\$0	89.80																		
131121045L	SOTR Oversight FY11	01-Oct-10	26-Apr-11	27.60	\$8,154	3.00	\$0	\$8,154	\$0	89.80																		
<b>1.3.1.1.2.2 TUNERS</b>		<b>01-May-09</b>	<b>31-Aug-11</b>	<b>116.20</b>	<b>\$77,330</b>	<b>36.70</b>	<b>\$688,159</b>	<b>\$786,890</b>	<b>\$21,401</b>	<b>79.80</b>																		
131122010	Proc Tuners	01-May-09	01-Sep-09	17.20	\$2,424	1.20	\$0	\$2,424	\$0	54.80																		
131122015	Vend Fab - Cold Tuners Lot #1 (Phase 1) FY09 Original Labor	01-Sep-09	30-Sep-09	4.20	\$922	0.34	\$0	\$2,263	\$1,342	63.60																		
131122015A	Vend Fab - Cold Tuners Lot #1 (Phase 1) FY10 Original Labor	01-Oct-09	01-Feb-10	15.80	\$3,578	1.26	\$0	\$8,786	\$5,208	63.60																		
131122016	Vend Fab - Cold Tuners Lot #2 & 3 (Phase 2) Original Labor	02-Feb-10	22-Jul-10	24.00	\$6,793	2.40	\$0	\$16,683	\$9,889	73.40																		
131122016A	Vend Fab - Cold Tuners - Materials	09-Sep-09	30-Sep-09	3.20	\$0	0.00	\$140,707	\$140,707	\$0	54.80																		
131122016B	Vend Fab - Cold Tuners - First Article	09-Sep-09	30-Oct-09	7.60	\$0	0.00	\$11,557	\$11,557	\$0	54.80																		
131122016C	Vend Fab - Cold Tuners - 2 thru 10	09-Sep-09	29-Jan-10	18.80	\$0	0.00	\$17,865	\$17,865	\$0	54.80																		
131122016D	Vend Fab - Cold Tuners - 11 thru 20	09-Sep-09	26-Feb-10	22.60	\$0	0.00	\$19,850	\$19,850	\$0	56.00																		
131122016F	Vend Fab - Cold Tuners - 21 thru 30	09-Sep-09	31-Mar-10	27.20	\$0	0.00	\$19,850	\$19,850	\$0	64.80																		
131122016G	Vend Fab - Cold Tuners - 31 thru 40	09-Sep-09	30-Apr-10	31.60	\$0	0.00	\$19,850	\$19,850	\$0	64.80																		
131122016H	Vend Fab - Cold Tuners - 41 thru 50	09-Sep-09	28-May-10	35.60	\$0	0.00	\$19,850	\$19,850	\$0	71.80																		
131122016J	Vend Fab - Cold Tuners - 51 thru 60	09-Sep-09	30-Jun-10	40.00	\$0	0.00	\$19,850	\$19,850	\$0	85.00																		
131122016K	Vend Fab - Cold Tuners - 61 thru 70	09-Sep-09	30-Jul-10	44.20	\$0	0.00	\$19,850	\$19,850	\$0	96.60																		
131122016L	Vend Fab - Cold Tuners - 71 thru 80	09-Sep-09	31-Aug-10	48.60	\$0	0.00	\$19,850	\$19,850	\$0	108.00																		
131122016N	Vend Fab - Cold Tuners - 81 thru 84	09-Sep-09	30-Sep-10	52.80	\$0	0.00	\$7,940	\$7,940	\$0	108.40																		
131122017	Receive & Insp First Article Tuner	02-Nov-09	13-Nov-09	2.00	\$1,223	0.60	\$0	\$1,333	\$110	67.00																		
131122020	Receive & Insp Tuners Lot #1 2-10	01-Feb-10	22-Feb-10	3.00	\$4,891	2.40	\$0	\$5,330	\$440	54.80																		
131122025	Receive & Insp Tuners Lot #2 11-20	01-Mar-10	26-Mar-10	4.00	\$4,666	2.20	\$0	\$5,215	\$549	56.00																		
131122030	Receive & Insp Tuners Lot #3 21-30	01-Apr-10	28-Apr-10	4.00	\$2,822	1.50	\$0	\$3,371	\$549	65.20																		
131122035	Receive & Insp Tuners Lot #4 31-40	03-May-10	28-May-10	4.00	\$2,822	1.50	\$0	\$3,371	\$549	64.80																		
131122040	Receive & Insp Tuners Lot #5 41-50	01-Jun-10	28-Jun-10	4.00	\$2,822	1.50	\$0	\$3,371	\$549	71.80																		
131122045	Receive & Insp Tuners Lot #6 51-60	01-Jul-10	29-Jul-10	4.00	\$2,822	1.50	\$0	\$3,371	\$549	85.00																		
131122050	Receive & Insp Tuners Lot #7 61-70	02-Aug-10	27-Aug-10	4.00	\$2,822	1.50	\$0	\$3,371	\$549	96.60																		
131122055	Receive & Insp Tuners Lot #8 71-80	01-Sep-10	29-Sep-10	4.00	\$2,822	1.50	\$0	\$3,371	\$549	108.00																		
131122060	Receive & Insp Tuners Lot #9 81-84	01-Oct-10	28-Oct-10	4.00	\$2,912	1.50	\$0	\$3,479	\$567	108.40																		
131122065	Vend Fab - Warm Tuners Lot # 1	01-Oct-09	24-Jun-10	36.00	\$0	0.00	\$140,223	\$140,223	\$0	33.60																		
131122065A	Vend Fab - Warm Tuners Lot # 1 Reverse Entry Per CR 10-064	01-Jul-10	01-Jul-10	0.20	\$0	0.00	(\$140,223)	(\$140,223)	\$0	43.40																		
131122065B	Vend Fab - Warm Tuners Peg Point #1 Receipt of Materials	25-May-10	30-Jul-10	9.40	\$0	0.00	\$100,000	\$100,000	\$0	20.60																		
131122065C	Vend Fab - Warm Tuners Peg Point #2 Receipt of Balance of Materials	25-May-10	31-Aug-10	13.80	\$0	0.00	\$100,173	\$100,173	\$0	20.60																		
131122065D	Vend Fab - Warm Tuners Peg Point #3 Receipt of R100 Materials	25-May-10	31-Aug-10	13.80	\$0	0.00	\$0	\$0	\$0	20.60																		
131122065F	Vend Fab - Warm Tuners Peg Point #4 Receipt of First Article	25-May-10	30-Sep-10	18.00	\$0	0.00	\$4,447	\$4,447	\$0	20.60																		
131122065G	Vend Fab - Warm Tuners Peg Point #5 Receipt of 1st Production Set	25-May-10	29-Oct-10	22.20	\$0	0.00	\$20,815	\$20,815	\$0	20.60																		
131122065H	Vend Fab - Warm Tuners Peg Point #6 Receipt of 2nd Production Set	25-May-10	30-Nov-10	26.20	\$0	0.00	\$20,815	\$20,815	\$0	22.60																		
131122065J	Vend Fab - Warm Tuners Peg Point #7 Receipt of 3rd Production Set	25-May-10	30-Dec-10	29.60	\$0	0.00	\$20,815	\$20,815	\$0	27.20																		
131122065K	Vend Fab - Warm Tuners Peg Point #8 Receipt of 4th Production Set	25-May-10	28-Feb-11	37.40	\$0	0.00	\$20,815	\$20,815	\$0	27.20																		
131122065L	Vend Fab - Warm Tuners Peg Point #9 Receipt of 5th Production Set	25-May-10	31-Mar-11	42.00	\$0	0.00	\$20,815	\$20,815	\$0	34.60																		
131122065N	Vend Fab - Warm Tuners Peg Point #10 Receipt of 6th Production Set	25-May-10	29-Apr-11	46.20	\$0	0.00	\$20,815	\$20,815	\$0	51.00																		
131122065P	Vend Fab - Warm Tuners Peg Point #11 Receipt of 7th Production Set	25-May-10	30-Jun-11	54.80	\$0	0.00	\$20,815	\$20,815	\$0	56.00																		
131122065Q	Vend Fab - Warm Tuners Peg Point #12 Receipt of 8th Production Set	25-May-10	29-Jul-11	58.80	\$0	0.00	\$20,815	\$20,8																				



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	UZ3
131122085	Recieve & Inspect Warm Tuners - 3rd Production Set	06-Jan-11	03-Feb-11	4.00	\$3,354	1.60	\$0	\$3,354	\$0	34.40																	
131122090	Recieve & Inspect Warm Tuners - 4th Production Set	01-Mar-11	28-Mar-11	4.00	\$3,354	1.60	\$0	\$3,354	\$0	27.20																	
131122095	Recieve & Inspect Warm Tuners - 5th Production Set	01-Apr-11	28-Apr-11	4.00	\$3,354	1.60	\$0	\$3,354	\$0	34.60																	
131122100	Recieve & Inspect Warm Tuners - 6th Production Set	02-May-11	27-May-11	4.00	\$3,354	1.60	\$0	\$3,354	\$0	51.00																	
131122105	Recieve & Inspect Warm Tuners - 7th Production Set	01-Jul-11	29-Jul-11	4.00	\$3,354	1.60	\$0	\$3,354	\$0	56.00																	
131122110	Recieve & Inspect Warm Tuners - 8th Production Set	01-Aug-11	26-Aug-11	4.00	\$3,354	1.60	\$0	\$3,354	\$0	65.60																	
<b>1.3.1.1.2.3 HELIUM HEADERS</b>		<b>01-Apr-09</b>	<b>09-Jul-10</b>	<b>63.60</b>	<b>\$17,747</b>	<b>7.70</b>	<b>\$278,889</b>	<b>\$309,070</b>	<b>\$12,433</b>	<b>119.40</b>																	
131123010	Proc Helium Headers	01-Apr-09	01-Jul-09	13.00	\$2,424	1.20	\$0	\$2,424	\$0	56.20																	
131123015	Vend Fab - Helium Headers Lot #1, 2 & 3 (Phase 1)	01-Jul-09	07-Aug-09	5.40	\$2,105	0.75	\$21,083	\$25,850	\$2,662	69.00																	
131123016	Vend Fab - Helium Headers Lot #1, 2 & 3 (Phase 2) FY09 Labor	10-Aug-09	30-Sep-09	7.40	\$2,922	1.04	\$0	\$6,615	\$3,694	85.60																	
131123016b	Vend Fab - Helium Headers Lot #1, 2 & 3 (Phase 2) FY10 Labor	01-Oct-09	02-Dec-09	8.60	\$3,501	1.21	\$0	\$7,931	\$4,429	85.60																	
131123016c	Vend Fab - Helium Headers Lot #1, 2 & 3 (Phase 2) Procurement	10-Aug-09	02-Dec-09	16.00	\$0	0.00	\$42,806	\$42,806	\$0	85.60																	
131123016d	Vend Fab 10 CFR 851 Compliance	02-Jul-10	09-Jul-10	1.00	\$0	0.00	\$215,000	\$215,000	\$0	56.20																	
131123020	Receive & Insp Helium Headers Lot #1 1-3	05-Oct-09	30-Oct-09	4.00	\$2,822	1.50	\$0	\$3,371	\$549	69.00																	
131123025	Receive & Insp Helium Headers Lot #2 4-7	02-Nov-09	01-Dec-09	4.00	\$2,822	1.50	\$0	\$3,371	\$549	88.80																	
131123030	Receive & Insp Helium Headers Lot #3 8-10	02-Dec-09	06-Jan-10	4.00	\$1,152	0.50	\$0	\$1,702	\$549	145.00																	
<b>1.3.1.1.3 CRYMODULE PROCUREMENTS</b>		<b>02-Jan-09</b>	<b>24-Oct-11</b>	<b>140.20</b>	<b>\$470,252</b>	<b>216.63</b>	<b>\$5,950,336</b>	<b>\$6,589,026</b>	<b>\$168,439</b>	<b>72.40</b>																	
<b>1.3.1.1.3.1 MLI</b>		<b>02-Mar-09</b>	<b>26-Oct-09</b>	<b>33.60</b>	<b>\$16,020</b>	<b>7.00</b>	<b>\$152,269</b>	<b>\$174,153</b>	<b>\$5,865</b>	<b>102.60</b>																	
131131010	Proc MLI	02-Mar-09	01-Jun-09	13.00	\$2,153	1.00	\$0	\$2,153	\$0	78.00																	
131131015	Vend Fab - MLI (Phase 1)	01-Jun-09	26-Jun-09	4.00	\$2,509	1.00	\$38,067	\$41,908	\$1,331	78.00																	
131131016	Vend Fab - MLI (Phase 2)	29-Jun-09	16-Sep-09	11.20	\$7,528	3.00	\$114,202	\$125,723	\$3,993	102.60																	
131131020	Receive & Insp MLI (Phase 1)	29-Jun-09	06-Aug-09	5.60	\$943	0.50	\$0	\$1,076	\$133	78.00																	
131131021	Receive & Insp MLI (Phase 2) FY09	17-Sep-09	30-Sep-09	2.00	\$1,010	0.54	\$0	\$1,153	\$143	102.60																	
131131021b	Receive & Insp MLI (Phase 2) FY10	01-Oct-09	26-Oct-09	3.60	\$1,876	0.96	\$0	\$2,141	\$265	102.60																	
<b>1.3.1.1.3.2 THERMAL SHIELD</b>		<b>02-Feb-09</b>	<b>01-Oct-10</b>	<b>83.60</b>	<b>\$29,164</b>	<b>13.00</b>	<b>\$380,652</b>	<b>\$424,083</b>	<b>\$14,268</b>	<b>103.60</b>																	
131132010	Proc Thermal Shield	02-Feb-09	01-Sep-09	29.80	\$2,153	1.00	\$0	\$2,153	\$0	48.60																	
131132015	Vend Fab - Thermal Shield Lot #1 (Phase 1) Labor FY09	01-Sep-09	30-Sep-09	4.20	\$668	0.26	\$0	\$1,227	\$559	48.60																	
131132015b	Vend Fab - Thermal Shield Lot #1 (Phase 1) Labor FY10	01-Oct-09	02-Mar-10	19.80	\$3,250	1.24	\$0	\$5,970	\$2,719	48.60																	
131132015c	Vend Fab - Thermal Shield Lot #1 (Phase 1) Procurement	01-Sep-09	02-Mar-10	24.00	\$0	0.00	\$122,986	\$122,986	\$0	48.60																	
131132016	Vend Fab - Thermal Shield Lot #2 & 3 (Phase 2)	03-Mar-10	19-Aug-10	24.00	\$9,192	3.50	\$257,665	\$274,549	\$7,691	61.40																	
131132020	Receive & Insp Thermal Shield Lot #1 1-3	03-Mar-10	13-Apr-10	6.00	\$6,113	3.00	\$0	\$7,212	\$1,099	48.60																	
131132025	Receive & Insp Thermal Shield Lot #2 4-7	26-May-10	08-Jul-10	6.00	\$3,891	2.00	\$0	\$4,990	\$1,099	61.40																	
131132030	Receive & Insp Thermal Shield Lot #3 8-10 FY10	20-Aug-10	30-Sep-10	5.80	\$3,761	1.93	\$0	\$4,824	\$1,062	103.60																	
131132030a	Receive & Insp Thermal Shield Lot #3 8-10 FY11	01-Oct-10	01-Oct-10	0.20	\$134	0.07	\$0	\$172	\$38	103.60																	
<b>1.3.1.1.3.3 MAGNETIC SHIELD</b>		<b>02-Jan-09</b>	<b>24-Oct-11</b>	<b>140.20</b>	<b>\$80,583</b>	<b>38.42</b>	<b>\$381,406</b>	<b>\$470,773</b>	<b>\$8,784</b>	<b>72.40</b>																	
131133010	Prormnt Prep for Magnetic Shield	02-Jan-09	11-Feb-09	5.60	\$693	0.32	\$0	\$693	\$0	20.20																	
131133015	Vend Fab - Magnetic Shield Lot #1 (Phase 1)	11-Feb-09	14-Sep-09	30.00	\$2,526	0.90	\$85,950	\$91,670	\$3,194	20.20																	
131133015a	Vend Fab - Magnetic Shield Lot #1 (Phase 1) Reverse Entry Per CR10-064 ETC	01-Jul-10	01-Jul-10	0.20	(\$2,607)	-0.90	(\$85,950)	(\$91,751)	(\$3,194)	36.40																	
131133016	Vend Fab - Magnetic Shield Lot #2 & 3 (Phase 2) Labor FY09	15-Sep-09	30-Sep-09	2.40	\$589	0.21	\$0	\$1,335	\$745	48.40																	
131133016b	Vend Fab - Magnetic Shield Lot #2 & 3 (Phase 2) Labor FY10	01-Oct-09	15-Mar-10	21.60	\$5,474	1.89	\$0	\$12,396	\$6,922	48.40																	
131133016c	Vend Fab - Inner Magnetic Shield- First Article Set	01-Jul-10	31-Aug-10	8.60	\$0	0.00	\$22,615	\$22,615	\$0	23.80																	
131133016c1	Vend Fab - Inner Magnetic Shield Set #2	01-Jul-10	30-Sep-10	12.80	\$0	0.00	\$20,258	\$20,258	\$0	23.80																	
131133017	Vend Fab - Inner Magnetic Shield Set #3	01-Jul-10	30-Nov-10	21.00	\$0	0.00	\$20,258	\$20,258	\$0	32.40																	
131133017A	Vend Fab - Inner Magnetic Shield Set #4	01-Jul-10	30-Nov-10	21.00	\$0	0.00	\$20,258	\$20,258	\$0	32.40																	
131133017B	Vend Fab - Inner Magnetic Shield Set #5	01-Jul-10	30-Dec-10	24.40	\$0	0.00	\$20,258	\$20,258	\$0	41.00																	
131133017C	Vend Fab - Inner Magnetic Shield Set #6	01-Jul-10	31-Jan-11	28.40	\$0	0.00	\$20,258	\$20,258	\$0	55.60																	
131133017D	Vend Fab - Inner Magnetic Shield Set #7	01-Jul-10	28-Feb-11	32.20	\$0	0.00	\$20,258	\$20,258	\$0	68.60																	
131133017F	Vend Fab - Inner Magnetic Shield Set #8	01-Jul-10	31-Mar-11	36.80	\$0	0.00	\$20,258	\$20,258	\$0	75.80																	
131133017G	Vend Fab - Inner Magnetic Shield Set #9	01-Jul-10	29-Apr-11	41.00	\$0	0.00	\$20,258	\$20,258	\$0	78.20																	
131133017H	Vend Fab - Inner Magnetic Shield Set #10	01-Jul-10	31-May-11	45.20	\$0	0.00	\$20,258	\$20,258	\$0	81.00																	
131133018	Vend Fab - Outer Magnetic Shield First Article Set	01-Jul-10	29-Oct-10	17.00	\$0	0.00	\$18,933	\$18,933	\$0	20.20																	
131133018A	Vend Fab - Outer Magnetic Shield Receipt of Materials	01-Jul-10	30-Dec-10	24.40	\$0	0.00	\$62,881	\$62,881	\$0	20.20																	
131133018B	Vend Fab - Outer Magnetic Shield Set #2	01-Jul-10	30-Dec-10	24.40	\$0	0.00	\$10,517	\$10,517	\$0	20.2																	





Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023	
131135017	Additional End Can Hardware	01-Jul-10	08-Jul-10	1.00	\$0	0.00	\$25,000	\$25,000	\$0	125.00																		
131135020	Receive & Insp End Cans Set #1 FY10	02-Aug-10	30-Sep-10	8.60	\$3,596	1.93	\$0	\$4,068	\$472	25.40																		
131135020a	Receive & Insp End Cans Set #1 FY11	01-Oct-10	25-Oct-10	3.40	\$1,468	0.77	\$0	\$1,660	\$193	25.40																		
131135025	Receive & Insp End Cans Set #2	01-Oct-10	04-Jan-11	12.00	\$5,178	2.70	\$0	\$5,858	\$680	22.80																		
131135030	Receive & Insp End Cans Set #3	01-Oct-10	04-Jan-11	12.00	\$5,178	2.70	\$0	\$5,858	\$680	38.60																		
131135035	Receive & Insp End Cans Set #4	01-Dec-10	04-Mar-11	12.00	\$5,178	2.70	\$0	\$5,858	\$680	30.40																		
131135040	Receive & Insp End Cans Set #5	01-Dec-10	04-Mar-11	12.00	\$5,178	2.70	\$0	\$5,858	\$680	42.40																		
131135045	Receive & Insp End Cans Set #6	04-Jan-11	30-Mar-11	12.00	\$5,178	2.70	\$0	\$5,858	\$680	59.40																		
131135050	Receive & Insp End Cans Set #7	02-Feb-11	27-Apr-11	12.00	\$5,178	2.70	\$0	\$5,858	\$680	69.00																		
131135055	Receive & Insp End Cans Set #8	02-Feb-11	27-Apr-11	12.00	\$5,178	2.70	\$0	\$5,858	\$680	82.60																		
131135060	Receive & Insp End Cans Set #9	04-Apr-11	27-Jun-11	12.00	\$5,178	2.70	\$0	\$5,858	\$680	83.00																		
131135065	Receive & Insp End Cans Set #10	03-May-11	27-Jul-11	12.00	\$5,178	2.70	\$0	\$5,858	\$680	84.80																		
<b>1.3.1.1.3.6 VACUUM VESSELS</b>		<b>02-Nov-09</b>	<b>30-Jun-11</b>	<b>82.00</b>	<b>\$41,153</b>	<b>19.80</b>	<b>\$845,582</b>	<b>\$917,589</b>	<b>\$30,853</b>	<b>88.40</b>																		
131136010	Proc Vac Vessels	02-Nov-09	02-Nov-09	0.20	\$2,222	1.00	\$0	\$2,222	\$0	3.40																		
131136015	Vend Fab - Vac Vessels Lot #1 Original Labor FY10	08-Mar-10	30-Sep-10	29.20	\$12,782	4.87	\$0	\$39,519	\$26,737	39.40																		
131136015a	Vend Fab - Vac Vessels Lot #1 Original Labor FY11	01-Oct-10	06-Oct-10	0.80	\$361	0.13	\$0	\$1,117	\$756	39.40																		
131136016	Vend Fab - Vac Vessels Peg Point #1 Materials	25-Nov-09	29-Jan-10	7.80	\$0	0.00	\$184,500	\$184,500	\$0	34.80																		
131136016a	Vend Fab - Vac Vessels Peg Point #2 Acceptance of First Article	25-Nov-09	30-Apr-10	20.60	\$0	0.00	\$61,812	\$61,812	\$0	34.80																		
131136016b	Vend Fab - Vac Vessels Peg Point #4 Completion of Production components prior to Welding	25-Nov-09	30-Apr-10	20.60	\$0	0.00	\$162,925	\$162,925	\$0	34.80																		
131136016c	Vend Fab - Vac Vessels Peg Point #3 First Article Shipped	25-Nov-09	30-Jun-10	29.00	\$0	0.00	\$15,528	\$15,528	\$0	34.80																		
131136016d	Vend Fab - Vac Vessels Peg Point #5 Vacuum Vessel Assembly #2 Shipped	25-Nov-09	31-Aug-10	37.60	\$0	0.00	\$42,313	\$42,313	\$0	34.80																		
131136016f	Vend Fab - Vac Vessels Peg Point #6 Vacuum Vessel Assembly #3 Shipped	25-Nov-09	30-Sep-10	41.80	\$0	0.00	\$42,313	\$42,313	\$0	42.40																		
131136016g	Vend Fab - Vac Vessels Peg Point #7 Vacuum Vessel Assembly #4 Shipped	25-Nov-09	29-Oct-10	46.00	\$0	0.00	\$42,313	\$42,313	\$0	42.40																		
131136016h	Vend Fab - Vac Vessels Peg Point #8 Vacuum Vessel Assembly #5 Shipped	25-Nov-09	30-Nov-10	50.00	\$0	0.00	\$42,313	\$42,313	\$0	49.80																		
131136016j	Vend Fab - Vac Vessels Peg Point #9 Vacuum Vessel Assembly #6 Shipped	25-Nov-09	31-Jan-11	57.40	\$0	0.00	\$42,313	\$42,313	\$0	63.80																		
131136016k	Vend Fab - Vac Vessels Peg Point #10 Vacuum Vessel Assembly #7 Shipped	25-Nov-09	28-Feb-11	61.20	\$0	0.00	\$42,313	\$42,313	\$0	72.80																		
131136016n	Vend Fab - Vac Vessels Peg Point #11 Vacuum Vessel Assembly #8 Shipped	25-Nov-09	31-Mar-11	65.80	\$0	0.00	\$42,313	\$42,313	\$0	82.20																		
131136016o	Vend Fab - Vac Vessels Peg Point #12 Vacuum Vessel Assembly #9 Shipped	25-Nov-09	29-Apr-11	70.00	\$0	0.00	\$42,313	\$42,313	\$0	86.80																		
131136016p	Vend Fab - Vac Vessels Peg Point #13 Vacuum Vessel Assembly #10 Shipped	25-Nov-09	31-May-11	74.20	\$0	0.00	\$42,313	\$42,313	\$0	88.40																		
131136017	Vend Fab Insulating Vac Components and Hardware	01-Jul-10	08-Jul-10	1.00	\$0	0.00	\$40,000	\$40,000	\$0	132.60																		
131136020	Receive & Insp Vac Vessels First Article	01-Jul-10	30-Jul-10	4.20	\$3,974	2.00	\$0	\$5,020	\$1,046	39.20																		
131136025	Receive & Insp Vac Vessel Assembly #2	01-Sep-10	30-Sep-10	4.20	\$3,447	1.80	\$0	\$3,697	\$250	34.80																		
131136030	Receive & Insp Vac Vessels Assembly #3	01-Oct-10	29-Oct-10	4.20	\$2,640	1.40	\$0	\$2,898	\$258	42.40																		
131136035	Receive & Insp Vac Vessels Assembly #4	01-Nov-10	30-Nov-10	4.00	\$2,640	1.40	\$0	\$2,898	\$258	42.40																		
131136040	Receive & Insp Vac Vessels Assembly #5	01-Dec-10	10-Jan-11	4.60	\$2,181	1.20	\$0	\$2,439	\$258	49.80																		
131136045	Receive & Insp Vac Vessels Assembly #6	01-Feb-11	28-Feb-11	3.80	\$2,181	1.20	\$0	\$2,439	\$258	63.80																		
131136050	Receive & Insp Vac Vessels Assembly #7	01-Mar-11	31-Mar-11	4.60	\$2,181	1.20	\$0	\$2,439	\$258	72.80																		
131136055	Receive & Insp Vac Vessels Assembly #8	01-Apr-11	29-Apr-11	4.20	\$2,181	1.20	\$0	\$2,439	\$258	82.20																		
131136060	Receive & Insp Vac Vessels Assembly #9	02-May-11	31-May-11	4.20	\$2,181	1.20	\$0	\$2,439	\$258	86.80																		
131136065	Receive & Insp Vac Vessels Assembly #10	01-Jun-11	30-Jun-11	4.40	\$2,181	1.20	\$0	\$2,439	\$258	88.40																		
<b>1.3.1.1.3.7 BEAM PIPES</b>		<b>25-Sep-09</b>	<b>30-Dec-10</b>	<b>62.00</b>	<b>\$15,201</b>	<b>7.80</b>	<b>\$592,632</b>	<b>\$626,512</b>	<b>\$18,679</b>	<b>33.00</b>																		
131137010	Proc Beam Pipes Labor FY09	25-Sep-09	30-Sep-09	0.80	\$78	0.04	\$0	\$78	\$0	35.20																		
131137010b	Proc Beam Pipes Labor FY10	01-Oct-09	26-Feb-10	19.40	\$1,960	0.86	\$0	\$1,960	\$0	35.20																		
131137011	Vendor Fab Cold Valves - Oversight	01-Oct-09	04-Jan-10	12.00	\$1,111	0.50	\$0	\$5,231	\$4,120	34.40																		
131137012	Vend Fab - Cold Valves 1-4	25-Sep-09	26-Feb-10	20.20	\$0	0.00	\$79,980	\$79,980	\$0	28.80																		
131137013	Vend Fab - Cold Valves 5-8	25-Sep-09	31-Mar-10	24.80	\$0	0.00	\$79,980	\$79,980	\$0	28.80																		
131137014	Vend Fab - Cold Valves 9-12	25-Sep-09	31-Mar-10	24.80	\$0	0.00	\$79,980	\$79,980	\$0	28.80																		
131137015	Vend Fab - Cold Valves 13-16	25-Sep-09	30-Apr-10	29.20	\$0	0.00	\$79,980	\$79,980	\$0	28.80																		
131137016	Vend Fab - Cold Valves 17-20	25-Sep-09	30-Apr-10	29.20	\$0	0.00	\$79,980	\$79,980	\$0	28.80																		
131137017	Vend Fab - Cold Valves 21-22	25-Sep-09	28-May-10	33.20	\$0	0.00	\$39,990	\$39,990	\$0	28.80																		
131137020	Receive & Inspect Cold Valves	16-Feb-10	28-May-10	14.80	\$4,360	2.45	\$0	\$5,239	\$879	28.80																		
131137025	Vendor Fab Burst Disc	01-Oct-09	26-Feb-10	19.40	\$1,111	0.50	\$8,790	\$14,022	\$4,120	54.40																		
131137030	Receive & Inspect Burst Disc	01-Mar-10	31-Mar-10	4.60	\$1,744	0.98	\$0	\$1,890	\$147	54.40																		
131137034	Vendor Fab Warm to Cold Beam Pipe - Oversight	05-Jan-10	27-Aug-10	33.00	\$1,111	0.50	\$0																					

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023
131137050	Receive & Insp Warm Valves	24-Mar-10	31-Aug-10	22.60	\$872	0.49	\$0	\$1,751	\$879	33.00																	
<b>1.3.1.1.3.8 TOP HATS</b>		13-May-09	23-Aug-11	113.40	\$153,970	65.11	\$1,593,452	\$1,787,397	\$39,975	81.00																	
131138010	Proc Top Hats Air Side FPC Components	13-May-09	06-Aug-09	12.00	\$1,978	0.90	\$0	\$1,978	\$0	27.00																	
131138015	Vend Fab - Warm Windows Labor FY09	07-Aug-09	30-Sep-09	7.60	\$3,018	1.39	\$0	\$5,783	\$2,765	57.40																	
131138015b	Vend Fab - Warm Windows Labor FY10 Initial	01-Oct-09	30-Nov-09	8.20	\$3,360	1.50	\$0	\$6,439	\$3,079	57.40																	
131138015ba	Vend Fab - Warm Windows Labor FY10 Final	01-Dec-09	30-Sep-10	41.40	\$5,820	2.60	\$0	\$11,150	\$5,331	57.40																	
131138015c	Vend Fab - Warm Windows Lot 1 and 2	07-Aug-09	28-May-10	40.00	\$0	0.00	\$107,824	\$107,824	\$0	44.60																	
131138015d	Vend Fab - Warm Windows Lot 3 and 4	30-Jul-10	29-Jul-11	49.60	\$0	0.00	\$172,119	\$172,119	\$0	73.60																	
131138015f	Vend Fab - Warm Windows Coatings	30-Jul-10	29-Jul-11	49.60	\$0	0.00	\$90,000	\$90,000	\$0	73.60																	
131138020	Receive & Insp Warm Windows Lot 1	01-Jun-10	30-Jun-10	4.40	\$4,099	2.00	\$0	\$4,374	\$275	44.60																	
131138020a	Acceptance Warm Windows Phase 1	30-Jun-10	30-Jun-10	0.20	\$0	0.00	\$43,130	\$43,130	\$0	57.40																	
131138020b	Receive & Insp Warm Windows Lot 2 FY10	01-Jul-10	30-Sep-10	12.80	\$2,914	1.42	\$0	\$3,110	\$195	57.40																	
131138020ba	Receive & Insp Warm Windows Lot 2 FY11	01-Oct-10	05-Nov-10	5.20	\$1,222	0.58	\$0	\$1,304	\$82	57.40																	
131138020d	Receive & Insp Warm Windows Lot 3	08-Nov-10	25-Mar-11	18.00	\$4,229	2.00	\$0	\$4,513	\$283	73.60																	
131138020g	Receive & Insp Warm Windows Lot 4	18-Apr-11	23-Aug-11	18.00	\$4,229	2.00	\$0	\$4,513	\$283	75.00																	
131138025	Vendor Fab Vacuum Components Labor Initial	05-Oct-09	30-Nov-09	7.80	\$4,143	1.89	\$0	\$8,785	\$4,642	28.80																	
131138025a	Vendor Fab Vacuum Components Labor Final	01-Dec-09	31-Aug-10	37.20	\$2,237	1.02	\$0	\$4,736	\$2,500	28.80																	
131138025a5	Vendor Fab Vacuum Components Labor Procurement	05-Oct-09	31-Aug-10	45.00	\$0	0.00	\$786,919	\$786,919	\$0	28.80																	
131138030	Receive & Insp Vacuum Components	05-Feb-10	30-Sep-10	33.20	\$8,708	4.90	\$0	\$9,806	\$1,099	28.80																	
131138035	Support for Diagnostic Components Procurement	05-Oct-09	06-Jan-10	12.00	\$7,433	3.50	\$0	\$14,575	\$7,142	44.60																	
131138037	Diagnostic Components Procurement Lots 1 thru 4	04-Jan-10	31-Aug-10	33.60	\$0	0.00	\$393,460	\$393,460	\$0	15.60																	
131138040	Receive & Insp Diagnostic Components Lot 1	04-Aug-10	01-Sep-10	4.20	\$5,211	2.50	\$0	\$8,233	\$3,022	15.60																	
131138045	Receive & Insp Diagnostic Components Lot 2 FY10	02-Sep-10	30-Sep-10	4.00	\$4,169	2.00	\$0	\$6,586	\$2,417	41.40																	
131138045a	Receive & Insp Diagnostic Components Lot 2 FY11	01-Oct-10	07-Oct-10	1.00	\$1,075	0.50	\$0	\$1,699	\$624	41.40																	
131138050	Receive & Insp Diagnostic Components Lot 3	08-Oct-10	11-Nov-10	5.00	\$5,377	2.50	\$0	\$8,495	\$3,118	61.60																	
131138055	Receive & Insp Diagnostic Components Lot 4	12-Nov-10	20-Dec-10	5.00	\$5,377	2.50	\$0	\$8,495	\$3,118	66.80																	
131138060L	SOTR Oversight FY10	01-Jul-10	30-Sep-10	12.80	\$16,858	6.40	\$0	\$16,858	\$0	81.00																	
131138065L	SOTR Oversight FY11	01-Oct-10	23-Aug-11	44.20	\$62,514	23.00	\$0	\$62,514	\$0	81.00																	
<b>1.3.1.1.3.9 SUPPORTS</b>		01-Oct-09	16-Jul-10	39.00	\$8,154	3.90	\$124,939	\$139,137	\$6,043	52.20																	
131139010	Proc Supprts	01-Oct-09	11-Dec-09	10.00	\$2,041	0.90	\$0	\$2,041	\$0	52.20																	
131139015	Vend Fab - Supprts	14-Dec-09	24-Mar-10	13.00	\$4,444	2.00	\$54,939	\$64,877	\$5,494	52.20																	
131139020	Additional Support Baseplates	12-Jul-10	16-Jul-10	1.00	\$0	0.00	\$70,000	\$70,000	\$0	52.20																	
131139025	Receive & Insp Supprts	25-Mar-10	15-Apr-10	3.20	\$1,670	1.00	\$0	\$2,219	\$549	52.20																	
<b>1.3.1.1.4 INSTALLATION AND ASSEMBLY TOOLING PROCUREMENTS</b>		01-Oct-09	04-Nov-10	54.60	\$227,481	114.00	\$368,125	\$633,896	\$38,290	15.80																	
13114010	Vend Fab - Installtn & Assy Tooling	01-Oct-09	31-Mar-10	24.00	\$0	0.00	\$68,125	\$73,619	\$5,494	42.40																	
13114012	Vend Fab - Installtn & Assy Tooling Phase 2	01-Jul-10	30-Sep-10	12.80	\$0	0.00	\$300,000	\$300,000	\$0	15.80																	
13114015	Receive & Insp Installtn & Assy Tooling	01-Apr-10	28-Apr-10	4.00	\$25,013	12.00	\$0	\$27,210	\$2,198	42.40																	
13114020	Receive & Insp Installtn & Assy Tooling Phase 2 FY10	10-Sep-10	30-Sep-10	3.00	\$74,444	38.25	\$0	\$85,694	\$11,250	15.80																	
13114020a	Receive & Insp Installtn & Assy Tooling Phase 2 FY11	01-Oct-10	04-Nov-10	5.00	\$128,025	63.75	\$0	\$147,373	\$19,348	15.80																	
<b>1.3.1.1.5 CRYOMODULE TEST INSTRUMENTATION &amp; INTERLOCKS PROCUREMENT</b>		01-Oct-09	02-Feb-10	16.00	\$0	0.00	\$0	\$0	\$0	62.40																	
13115010	Vend Fab - Instrumenttn & Interlocks	01-Oct-09	04-Jan-10	12.00	\$0	0.00	\$0	\$0	\$0	62.40																	
13115015	Receive & Insp Instrumenttn & Interlocks	05-Jan-10	02-Feb-10	4.00	\$0	0.00	\$0	\$0	\$0	62.40																	
<b>1.3.1.2 CAVITY STRING ASSEMBLY</b>		05-Aug-10	21-Feb-12	76.00	\$1,130,181	531.60	\$0	\$1,403,837	\$273,656	10.00																	
<b>1.3.1.2.1 CAVITY PREPARATION</b>		05-Aug-10	16-Nov-11	64.20	\$474,880	210.60	\$0	\$576,290	\$101,410	19.60																	
<b>1.3.1.2.1.01 CAVITY STRING #1 PREPERATION</b>		05-Aug-10	05-Nov-10	13.20	\$46,641	21.06	\$0	\$56,721	\$10,080	20.20																	
1312101002	Cavity String #1 Cavity Processing	01-Nov-10	05-Nov-10	1.00	\$8,509	4.76	\$0	\$17,589	\$9,080	20.20																	
1312101005	Cavity String #1 Helium Vessel Welding	05-Aug-10	25-Aug-10	3.00	\$6,048	3.50	\$0	\$7,048	\$1,000	11.40																	
1312101030	Cavity #1 VTA Run	10-Sep-10	16-Sep-10	1.00	\$3,957	1.60	\$0	\$3,957	\$0	7.40																	
1312101035	Cavity #2 VTA Run	15-Sep-10	21-Sep-10	1.00	\$3,957	1.60	\$0	\$3,957	\$0	7.40																	
1312101040	Cavity #3 VTA Run	20-Sep-10	24-Sep-10	1.00	\$3,957	1.60	\$0	\$3,957	\$0	7.40																	
1312101045	Cavity #4 VTA Run	23-Sep-10	29-Sep-10	1.00	\$3,957	1.60	\$0	\$3,957	\$0	7.40																	
1312101050	Cavity #5 VTA Run FY10	28-Sep-10	30-Sep-10	0.60	\$2,374	0.96	\$0	\$2,374	\$0	7.40																	
1312101050a	Cavity #5 VTA Run FY11	01-Oct-10	04-Oct-10	0.40	\$1,633	0.64	\$0	\$1,633	\$0	7.40																	
1312101055	Cavity #6 VTA Run	01-Oct-10	07-Oct-10	1.00	\$4,083	1.60	\$0	\$4,083	\$0	7.40																	
1312101060	Cavity #7 VTA Run	06-Oct-10	12-Oct-10	1.00	\$4,083	1.60	\$0	\$4,083																			



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023
1312102005	Cavity String #2 Helium Vessel Welding	08-Oct-10	28-Oct-10	3.00	\$6,241	3.50	\$0	\$7,273	\$1,032	7.40																	
1312102030	Cavity #9 VTA Run	15-Oct-10	21-Oct-10	1.00	\$4,083	1.60	\$0	\$4,083	\$0	7.40																	
1312102035	Cavity #10 VTA Run	20-Oct-10	26-Oct-10	1.00	\$4,083	1.60	\$0	\$4,083	\$0	7.40																	
1312102040	Cavity #11 VTA Run	25-Oct-10	29-Oct-10	1.00	\$4,083	1.60	\$0	\$4,083	\$0	7.40																	
1312102045	Cavity #12 VTA Run	28-Oct-10	03-Nov-10	1.00	\$4,083	1.60	\$0	\$4,083	\$0	7.40																	
1312102050	Cavity #13 VTA Run	02-Nov-10	08-Nov-10	1.00	\$4,083	1.60	\$0	\$4,083	\$0	7.40																	
1312102055	Cavity #14 VTA Run	05-Nov-10	11-Nov-10	1.00	\$4,083	1.60	\$0	\$4,083	\$0	7.40																	
1312102060	Cavity #15 VTA Run	10-Nov-10	16-Nov-10	1.00	\$4,083	1.60	\$0	\$4,083	\$0	7.40																	
1312102065	Cavity #16 VTA Run	15-Nov-10	19-Nov-10	1.00	\$4,083	1.60	\$0	\$4,083	\$0	7.40																	
<b>1.3.1.2.1.03 CAVITY STRING #3 PREPARATION</b>		<b>15-Nov-10</b>	<b>01-Feb-11</b>	<b>9.60</b>	<b>\$47,414</b>	<b>21.06</b>	<b>\$0</b>	<b>\$57,526</b>	<b>\$10,112</b>	<b>19.80</b>																	
1312103005	Cavity String #3 Cavity Process & He Vs Weld	15-Nov-10	08-Dec-10	3.20	\$14,750	8.26	\$0	\$24,862	\$10,112	20.20																	
1312103030	Cavity #17 VTA Run	23-Nov-10	01-Dec-10	1.00	\$4,083	1.60	\$0	\$4,083	\$0	20.20																	
1312103035	Cavity #18 VTA Run	30-Nov-10	06-Dec-10	1.00	\$4,083	1.60	\$0	\$4,083	\$0	20.20																	
1312103040	Cavity #19 VTA Run	03-Dec-10	09-Dec-10	1.00	\$4,083	1.60	\$0	\$4,083	\$0	20.20																	
1312103045	Cavity #20 VTA Run	08-Dec-10	14-Dec-10	1.00	\$4,083	1.60	\$0	\$4,083	\$0	20.20																	
1312103050	Cavity #21 VTA Run	13-Dec-10	17-Dec-10	1.00	\$4,083	1.60	\$0	\$4,083	\$0	20.20																	
1312103055	Cavity #22 VTA Run	18-Jan-11	24-Jan-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312103060	Cavity #23 VTA Run	21-Jan-11	27-Jan-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312103065	Cavity #24 VTA Run	26-Jan-11	01-Feb-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
<b>1.3.1.2.1.04 CAVITY STRING #4 PREPARATION</b>		<b>09-Dec-10</b>	<b>08-Mar-11</b>	<b>11.20</b>	<b>\$47,414</b>	<b>21.06</b>	<b>\$0</b>	<b>\$57,526</b>	<b>\$10,112</b>	<b>19.80</b>																	
1312104005	Cavity String #4 Cavity Process & He Vs Weld	09-Dec-10	07-Jan-11	3.20	\$14,750	8.26	\$0	\$24,862	\$10,112	24.60																	
1312104030	Cavity#25 VTA Run	31-Jan-11	04-Feb-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312104035	Cavity#26 VTA Run	03-Feb-11	09-Feb-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312104040	Cavity#27 VTA Run	08-Feb-11	14-Feb-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312104045	Cavity#28 VTA Run	11-Feb-11	17-Feb-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312104050	Cavity#29 VTA Run	16-Feb-11	23-Feb-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312104055	Cavity#30 VTA Run	22-Feb-11	28-Feb-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312104060	Cavity#31 VTA Run	25-Feb-11	03-Mar-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312104065	Cavity#32 VTA Run	02-Mar-11	08-Mar-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
<b>1.3.1.2.1.05 CAVITY STRING #5 PREPARATION</b>		<b>15-Feb-11</b>	<b>13-Apr-11</b>	<b>8.20</b>	<b>\$47,414</b>	<b>21.06</b>	<b>\$0</b>	<b>\$57,526</b>	<b>\$10,112</b>	<b>19.80</b>																	
1312105005	Cavity String #5 Cavity Process & He Vs Weld	15-Feb-11	09-Mar-11	3.20	\$14,750	8.26	\$0	\$24,862	\$10,112	21.60																	
1312105030	Cavity #33 VTA Run	09-Mar-11	15-Mar-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312105035	Cavity #34 VTA Run	14-Mar-11	18-Mar-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312105040	Cavity #35 VTA Run	17-Mar-11	23-Mar-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312105045	Cavity #36 VTA Run	22-Mar-11	28-Mar-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312105050	Cavity #37 VTA Run	25-Mar-11	31-Mar-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312105055	Cavity #38 VTA Run	30-Mar-11	05-Apr-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312105060	Cavity #39 VTA Run	04-Apr-11	08-Apr-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312105065	Cavity #40 VTA Run	07-Apr-11	13-Apr-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
<b>1.3.1.2.1.06 CAVITY STRING #6 PREPARATION</b>		<b>21-Mar-11</b>	<b>17-May-11</b>	<b>8.40</b>	<b>\$47,414</b>	<b>21.06</b>	<b>\$0</b>	<b>\$57,526</b>	<b>\$10,112</b>	<b>19.80</b>																	
1312106005	Cavity String #6 Cavity Process & He Vs Weld	21-Mar-11	11-Apr-11	3.20	\$14,750	8.26	\$0	\$24,862	\$10,112	21.80																	
1312106030	Cavity #41 VTA Run	12-Apr-11	18-Apr-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312106035	Cavity #42 VTA Run	15-Apr-11	21-Apr-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312106040	Cavity #43 VTA Run	20-Apr-11	26-Apr-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312106045	Cavity #44 VTA Run	25-Apr-11	29-Apr-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312106050	Cavity #45 VTA Run	28-Apr-11	04-May-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312106055	Cavity #46 VTA Run	03-May-11	09-May-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312106060	Cavity #47 VTA Run	06-May-11	12-May-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312106065	Cavity #48 VTA Run	11-May-11	17-May-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
<b>1.3.1.2.1.07 CAVITY STRING #7 PREPARATION</b>		<b>20-Apr-11</b>	<b>21-Jun-11</b>	<b>8.80</b>	<b>\$47,414</b>	<b>21.06</b>	<b>\$0</b>	<b>\$57,526</b>	<b>\$10,112</b>	<b>19.80</b>																	
1312107005	Cavity String #7 Cavity Process & He Vs Weld	20-Apr-11	11-May-11	3.20	\$14,750	8.26	\$0	\$24,862	\$10,112	22.20																	
1312107030	Cavity #49 VTA Run	16-May-11	20-May-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312107035	Cavity #50 VTA Run	19-May-11	25-May-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312107040	Cavity #51 VTA Run	24-May-11	31-May-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																	
1312107045	Cavity #52 VTA Run	27-May-11	03-Jun-11	1.00	\$4,083	1.60	\$0																				

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	
131210705	Cavity #56 VTA Run	15-Jun-11	21-Jun-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																		
<b>1.3.1.2.1.08 CAVITY STRING #8 PREPARATION</b>																												
1312108005	Cavity String #8 Cavity Process & He Vs Weld	02-Jun-11	26-Aug-11	12.20	\$47,414	21.06	\$0	\$57,526	\$10,112	21.40																		
1312108030	Cavity #57 VTA Run	20-Jun-11	24-Jun-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																		
1312108035	Cavity #58 VTA Run	23-Jun-11	29-Jun-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	19.80																		
1312108040	Cavity #59 VTA Run	01-Aug-11	05-Aug-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	21.40																		
1312108045	Cavity #60 VTA Run	04-Aug-11	10-Aug-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	21.40																		
1312108050	Cavity #61 VTA Run	09-Aug-11	15-Aug-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	21.40																		
1312108055	Cavity #62 VTA Run	12-Aug-11	18-Aug-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	21.40																		
1312108060	Cavity #63 VTA Run	17-Aug-11	23-Aug-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	21.40																		
1312108065	Cavity #64 VTA Run	22-Aug-11	26-Aug-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	21.40																		
<b>1.3.1.2.1.09 CAVITY STRING #9 PREPARATION</b>																												
1312109005	Cavity String #9 Cavity Process & He Vs Weld	15-Aug-11	30-Sep-11	6.80	\$47,414	21.06	\$0	\$57,526	\$10,112	21.40																		
1312109030	Cavity #65 VTA Run	25-Aug-11	31-Aug-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	21.40																		
1312109035	Cavity #66 VTA Run	30-Aug-11	06-Sep-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	21.40																		
1312109040	Cavity #67 VTA Run	02-Sep-11	09-Sep-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	21.40																		
1312109045	Cavity #68 VTA Run	08-Sep-11	14-Sep-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	21.40																		
1312109050	Cavity #69 VTA Run	13-Sep-11	19-Sep-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	21.40																		
1312109055	Cavity #70 VTA Run	16-Sep-11	22-Sep-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	21.40																		
1312109060	Cavity #71 VTA Run	21-Sep-11	27-Sep-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	21.40																		
1312109065	Cavity #72 VTA Run	26-Sep-11	30-Sep-11	1.00	\$4,083	1.60	\$0	\$4,083	\$0	21.40																		
<b>1.3.1.2.1.10 CAVITY STRING #10 PREPARATION</b>																												
1312110005	Cavity String #10 Cavity Process & He Vs Weld	04-Oct-11	16-Nov-11	6.40	\$48,925	21.06	\$0	\$59,359	\$10,435	19.60																		
1312110030	Cavity #73 VTA Run	12-Oct-11	18-Oct-11	1.00	\$4,213	1.60	\$0	\$4,213	\$0	19.60																		
1312110035	Cavity #74 VTA Run	17-Oct-11	21-Oct-11	1.00	\$4,213	1.60	\$0	\$4,213	\$0	19.60																		
1312110040	Cavity #75 VTA Run	20-Oct-11	26-Oct-11	1.00	\$4,213	1.60	\$0	\$4,213	\$0	19.60																		
1312110045	Cavity #76 VTA Run	25-Oct-11	31-Oct-11	1.00	\$4,213	1.60	\$0	\$4,213	\$0	19.60																		
1312110050	Cavity #77 VTA Run	28-Oct-11	03-Nov-11	1.00	\$4,213	1.60	\$0	\$4,213	\$0	19.60																		
1312110055	Cavity #78 VTA Run	02-Nov-11	08-Nov-11	1.00	\$4,213	1.60	\$0	\$4,213	\$0	19.60																		
1312110060	Cavity #79 VTA Run	07-Nov-11	11-Nov-11	1.00	\$4,213	1.60	\$0	\$4,213	\$0	19.60																		
1312110065	Cavity #80 VTA Run	10-Nov-11	16-Nov-11	1.00	\$4,213	1.60	\$0	\$4,213	\$0	19.60																		
<b>1.3.1.2.4 STRING ASSEMBLY</b>																												
<b>1.3.1.2.4.01 CAVITY STRING ASSEMBLY #1</b>																												
1312401000	Cavity String Assy #1	01-Nov-10	15-Nov-10	2.20	\$85,355	43.10	\$0	\$102,362	\$17,008	7.40																		
1312401010	Transfer to CM #1 Assy	01-Nov-10	12-Nov-10	2.00	\$85,355	43.10	\$0	\$102,362	\$17,008	7.40																		
1312401010	Transfer to CM #1 Assy	15-Nov-10	15-Nov-10	0.20	\$0	0.00	\$0	\$0	\$0	7.40																		
<b>1.3.1.2.4.02 CAVITY STRING ASSEMBLY #2</b>																												
1312402000	Cavity String Assy #2	22-Nov-10	07-Mar-11	13.20	\$74,197	37.10	\$0	\$91,204	\$17,008	7.40																		
1312402010	Transfer to CM #2 Assy	22-Nov-10	07-Dec-10	2.00	\$74,197	37.10	\$0	\$91,204	\$17,008	7.40																		
1312402010	Transfer to CM #2 Assy	07-Mar-11	07-Mar-11	0.20	\$0	0.00	\$0	\$0	\$0	7.40																		
<b>1.3.1.2.4.03 CAVITY STRING ASSEMBLY #3</b>																												
1312403000	Cavity String Assy #3	22-Mar-11	05-Apr-11	2.20	\$60,998	30.10	\$0	\$78,005	\$17,008	17.00																		
1312403010	Transfer to CM #3 Assy	22-Mar-11	04-Apr-11	2.00	\$60,998	30.10	\$0	\$78,005	\$17,008	17.00																		
1312403010	Transfer to CM #3 Assy	05-Apr-11	05-Apr-11	0.20	\$0	0.00	\$0	\$0	\$0	17.00																		
<b>1.3.1.2.4.04 CAVITY STRING ASSEMBLY #4</b>																												
1312404000	Cavity String Assy #4	03-May-11	17-May-11	2.20	\$60,998	30.10	\$0	\$78,005	\$17,008	14.00																		
1312404010	Transfer to CM #4 Assy	03-May-11	16-May-11	2.00	\$60,998	30.10	\$0	\$78,005	\$17,008	14.00																		
1312404010	Transfer to CM #4 Assy	17-May-11	17-May-11	0.20	\$0	0.00	\$0	\$0	\$0	14.00																		
<b>1.3.1.2.4.05 CAVITY STRING ASSEMBLY #5</b>																												
1312405000	Cavity String Assy #5	25-May-11	09-Jun-11	2.20	\$60,998	30.10	\$0	\$78,005	\$17,008	22.80																		
1312405010	Transfer to CM #5 Assy	25-May-11	08-Jun-11	2.00	\$60,998	30.10	\$0	\$78,005	\$17,008	22.80																		
1312405010	Transfer to CM #5 Assy	09-Jun-11	09-Jun-11	0.20	\$0	0.00	\$0	\$0	\$0	22.80																		
<b>1.3.1.2.4.06 CAVITY STRING ASSEMBLY #6</b>																												
1312406000	Cavity String Assy #6	17-Jun-11	21-Nov-11	22.00	\$60,998	30.10	\$0	\$78,005	\$17,008	10.00																		
1312406010	Transfer to CM #6 Assy	17-Jun-11	30-Jun-11	2.00	\$60,998	30.10	\$0	\$78,005	\$17,008	29.80																		
1312406010	Transfer to CM #6 Assy	21-Nov-11	21-Nov-11	0.20	\$0	0.00	\$0	\$0	\$0	10.00																		
<b>1.3.1.2.4.07 CAVITY STRING ASSEMBLY #7</b>																												
1312407000	Cavity String Assy #7	30-Nov-11	14-Dec-11	2.20	\$62,940	30.10	\$0	\$80,490	\$17,550	10.00																		
1312407010	Transfer to CM #7 Assy	30-Nov-11	13-Dec-11	2.00	\$62,940	30.10	\$0	\$80,490	\$17,550	10.00																		
1312407010	Transfer to CM #7 Assy	14-Dec-11	14-Dec-11	0.20	\$0	0.00	\$0	\$0	\$0																			



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	
<b>1.3.1.2.4.10 CAVITY STRING ASSEMBLY #10</b>																												
1312410000	Cavity String Assy #10	06-Feb-12	21-Feb-12	2.20	\$62,940	30.10	\$0	\$80,490	\$17,550	10.00																		
1312410010	Transfer to CM #10 Assy	21-Feb-12	21-Feb-12	0.20	\$0	0.00	\$0	\$0	\$0	10.00																		
<b>1.3.1.3 CRYOMODULE ASSEMBLY</b>																												
<b>1.3.1.3.01 SPACE FRAME ASSEMBLY</b>																												
131301001	Space Frame Assy #1	16-Nov-10	07-Dec-12	102.20	\$1,942,725	1057.35	\$0	\$2,164,692	\$221,968	22.20																		
131301002	Space Frame Assy #2	16-Nov-10	26-Oct-12	96.60	\$945,067	516.79	\$0	\$1,052,816	\$107,749	22.20																		
131301003	Space Frame Assy #3	08-Mar-11	25-Apr-11	7.00	\$101,622	55.00	\$0	\$111,941	\$10,319	7.40																		
131301004	Space Frame Assy #4	06-Apr-11	17-May-11	6.00	\$93,478	52.00	\$0	\$103,797	\$10,319	20.00																		
131301005	Space Frame Assy #4	15-Jun-11	27-Jul-11	6.00	\$83,887	47.70	\$0	\$94,206	\$10,319	10.20																		
131301005	Space Frame Assy #5	30-Jun-11	11-Aug-11	6.00	\$83,887	47.70	\$0	\$94,206	\$10,319	20.00																		
131301006	Space Frame Assy #6	22-Nov-11	27-Jan-12	8.00	\$86,556	47.70	\$0	\$97,204	\$10,648	18.40																		
131301006a	Space Frame Assy #6 Reverse entry	01-Feb-12	01-Feb-12	0.20	(\$8,656)	-47.70	\$0	(\$97,204)	(\$10,648)	24.60																		
131301006b	Space Frame Assy #6	27-Feb-12	06-Apr-12	6.00	\$86,556	47.70	\$0	\$97,204	\$10,648	24.60																		
131301007	Space Frame Assy #7	03-Feb-12	08-Mar-12	4.80	\$86,556	47.70	\$0	\$97,204	\$10,648	26.40																		
131301008	Space Frame Assy #8	29-May-12	13-Jul-12	6.60	\$86,556	47.70	\$0	\$97,204	\$10,648	22.20																		
131301009	Space Frame Assy #9	09-Jul-12	07-Sep-12	8.80	\$86,556	47.70	\$0	\$97,204	\$10,648	23.20																		
131301010	Space Frame Assy #10 FY12	04-Sep-12	28-Sep-12	3.80	\$42,168	23.24	\$0	\$47,356	\$5,188	22.20																		
131301010a	Space Frame Assy #10 FY13	01-Oct-12	26-Oct-12	4.00	\$68,069	36.35	\$0	\$76,442	\$8,373	22.20																		
<b>1.3.1.3.02 CRYOMODULE ASSEMBLY</b>																												
131302001	Cryomodule Assy #1	24-Jan-11	07-Dec-12	94.20	\$997,657	540.56	\$0	\$1,111,876	\$114,219	22.20																		
131302002	Cryomodule Assy #2	24-Jan-11	21-Mar-11	8.00	\$125,732	64.00	\$0	\$136,051	\$10,319	14.40																		
131302003	Cryomodule Assy #3	26-Apr-11	14-Jun-11	7.00	\$101,622	55.00	\$0	\$111,941	\$10,319	7.40																		
131302004	Cryomodule Assy #4	18-May-11	29-Jun-11	6.00	\$93,478	52.00	\$0	\$103,797	\$10,319	20.00																		
131302005	Cryomodule Assy #5	03-Oct-11	11-Nov-11	6.00	\$86,556	47.70	\$0	\$97,204	\$10,648	1.00																		
131302006	Cryomodule Assy #6	05-Jan-12	02-Feb-12	4.00	\$86,556	47.70	\$0	\$97,204	\$10,648	1.00																		
131302006a	Cryomodule Assy #6 Reverse Entry	30-Jan-12	31-Jan-12	0.40	\$8,656	4.77	\$0	\$9,720	\$1,065	18.40																		
131302006b	Cryomodule Assy #6	01-Feb-12	01-Feb-12	0.20	(\$8,656)	-4.77	\$0	(\$9,720)	(\$1,065)	33.80																		
131302007	Cryomodule Assy #7	29-May-12	06-Jul-12	5.60	\$86,556	47.70	\$0	\$97,204	\$10,648	17.60																		
131302007	Cryomodule Assy #7	09-Mar-12	26-Apr-12	7.00	\$86,556	47.70	\$0	\$97,204	\$10,648	26.40																		
131302008	Cryomodule Assy #8	16-Jul-12	31-Aug-12	7.00	\$86,556	47.70	\$0	\$97,204	\$10,648	22.20																		
131302009	Cryomodule Assy #9 FY12	10-Sep-12	28-Sep-12	3.00	\$43,278	23.85	\$0	\$48,602	\$5,324	23.20																		
131302009a	Cryomodule Assy #9 FY13	01-Oct-12	19-Oct-12	3.00	\$66,923	35.74	\$0	\$75,156	\$8,232	23.20																		
131302010	Cryomodule Assy #10	29-Oct-12	07-Dec-12	5.60	\$133,844	71.48	\$0	\$150,309	\$16,465	22.20																		
<b>1.3.1.4 CRYOMODULE ACCEPTANCE TEST</b>																												
<b>1.3.1.4.01 CRYOMODULE ACCEPTANCE TEST #1</b>																												
131401000	Acceptance Test Cryomodule #1	22-Mar-11	25-Apr-11	5.00	\$78,987	29.00	\$0	\$84,146	\$5,160	14.40																		
131401000	Acceptance Test Cryomodule #1	22-Mar-11	25-Apr-11	5.00	\$78,987	29.00	\$0	\$84,146	\$5,160	14.40																		
<b>1.3.1.4.02 CRYOMODULE ACCEPTANCE TEST #2</b>																												
131402000	Acceptance Test Cryomodule #2	15-Jun-11	20-Jul-11	5.00	\$59,039	22.50	\$0	\$64,199	\$5,160	7.40																		
131402000	Acceptance Test Cryomodule #2	15-Jun-11	20-Jul-11	5.00	\$59,039	22.50	\$0	\$64,199	\$5,160	7.40																		
<b>1.3.1.4.03 CRYOMODULE ACCEPTANCE TEST #3</b>																												
131403000	Acceptance Test Cryomodule #3	01-Nov-11	07-Dec-11	5.00	\$44,919	18.00	\$0	\$50,243	\$5,324	3.80																		
131403000	Acceptance Test Cryomodule #3	01-Nov-11	07-Dec-11	5.00	\$44,919	18.00	\$0	\$50,243	\$5,324	3.80																		
<b>1.3.1.4.04 CRYOMODULE ACCEPTANCE TEST #4</b>																												
131404000	Acceptance Test Cryomodule #4	08-Dec-11	30-Mar-12	14.80	\$44,919	18.00	\$0	\$50,243	\$5,324	1.00																		
131404005	Acceptance Test Cryomodule #4 Reverse Entry	01-Feb-12	01-Feb-12	0.20	(\$44,919)	-18.00	\$0	(\$50,243)	(\$5,324)	4.20																		
131404010	Acceptance Test Cryomodule #4	27-Feb-12	30-Mar-12	5.00	\$44,919	18.00	\$0	\$50,243	\$5,324	1.00																		
<b>1.3.1.4.05 CRYOMODULE ACCEPTANCE TEST #5</b>																												
131405000	Acceptance Test Cryomodule #5	03-Feb-12	23-Feb-12	2.80	\$44,919	18.00	\$0	\$50,243	\$5,324	1.00																		
131405000	Acceptance Test Cryomodule #5	03-Feb-12	23-Feb-12	2.80	\$44,919	18.00	\$0	\$50,243	\$5,324	1.00																		
<b>1.3.1.4.06 CRYOMODULE ACCEPTANCE TEST #6</b>																												
131406000	Acceptance Test Cryomodule #6	16-Jul-12	31-Aug-12	7.00	\$44,919	18.00	\$0	\$50,243	\$5,324	16.60																		
131406000	Acceptance Test Cryomodule #6	16-Jul-12	31-Aug-12	7.00	\$44,919	18.00	\$0	\$50,243	\$5,324	16.60																		
<b>1.3.1.4.07 CRYOMODULE ACCEPTANCE TEST #7</b>																												
131407000	Acceptance Test Cryomodule #7 FY12	04-Sep-12	19-Oct-12	6.80	\$45,552	18.00	\$0	\$50,951	\$5,399	16.60																		
131407000a	Acceptance Test Cryomodule #7 FY13	04-Sep-12	28-Sep-12	3.80																								

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	
<b>1.3.1.5.02 CRYOMODULE #2 INSTALLATION AND TEST</b>		21-Jul-11	05-Oct-11	10.80	\$45,486	19.00	\$0	\$50,673	\$5,187	2.40																		
131502000	Installaton Cryomodule #2	21-Jul-11	27-Jul-11	1.00	\$1,723	1.00	\$0	\$1,723	\$0	7.40																		
131502005	In-Tunnel Checkout and Commisioning Cryomodule #2 FY11	12-Sep-11	30-Sep-11	3.00	\$36,276	15.00	\$0	\$40,576	\$4,300	2.40																		
131502005a	In-Tunnel Checkout and Commisioning Cryomodule #2 FY12	03-Oct-11	05-Oct-11	0.60	\$7,487	3.00	\$0	\$8,375	\$887	2.40																		
<b>1.3.1.5.03 CRYOMODULE #3 INSTALLATION AND TEST</b>		21-Dec-12	11-Jan-13	2.00	\$10,168	5.54	\$0	\$10,168	\$0	3.00																		
131503000	Installaton Cryomodule #3 5th	21-Dec-12	11-Jan-13	2.00	\$10,168	5.54	\$0	\$10,168	\$0	3.00																		
<b>1.3.1.5.04 CRYOMODULE #4 INSTALLATION AND TEST</b>		14-May-12	13-Jul-12	8.60	\$45,122	18.40	\$0	\$50,446	\$5,324	58.00																		
131504000	Installaton Cryomodule #4 3rd	14-May-12	25-May-12	2.00	\$1,778	1.00	\$0	\$1,778	\$0	1.00																		
131504005	In-Tunnel Checkout and Commisioning Cryomodule #4 3rd	13-Jun-12	13-Jul-12	4.60	\$43,344	17.40	\$0	\$48,668	\$5,324	58.00																		
<b>1.3.1.5.05 CRYOMODULE #5 INSTALLATION AND TEST</b>		29-May-12	27-Jul-12	8.60	\$45,122	18.40	\$0	\$50,446	\$5,324	1.00																		
131505000	Installaton Cryomodule #5 4th	29-May-12	08-Jun-12	1.60	\$1,778	1.00	\$0	\$1,778	\$0	1.00																		
131505005	In-Tunnel Checkout and Commisioning Cryomodule #5 4th	25-Jun-12	27-Jul-12	5.00	\$43,344	17.40	\$0	\$48,668	\$5,324	1.00																		
<b>1.3.1.5.06 CRYOMODULE #6 INSTALLATION AND TEST</b>		17-Jan-13	30-Jan-13	1.80	\$10,168	5.54	\$0	\$10,168	\$0	5.40																		
131506000	Installaton Cryomodule #6	17-Jan-13	30-Jan-13	1.80	\$10,168	5.54	\$0	\$10,168	\$0	5.40																		
<b>1.3.1.5.07 CRYOMODULE #7 INSTALLATION AND TEST</b>		07-Feb-13	21-Feb-13	2.00	\$10,168	5.54	\$0	\$10,168	\$0	7.20																		
131507000	Installaton Cryomodule #7	07-Feb-13	21-Feb-13	2.00	\$10,168	5.54	\$0	\$10,168	\$0	7.20																		
<b>1.3.1.5.08 CRYOMODULE #8 INSTALLATION AND TEST</b>		27-Feb-13	12-Mar-13	2.00	\$10,168	5.54	\$0	\$10,168	\$0	9.60																		
131508000	Installaton Cryomodule #8	27-Feb-13	12-Mar-13	2.00	\$10,168	5.54	\$0	\$10,168	\$0	9.60																		
<b>1.3.1.5.09 CRYOMODULE #9 INSTALLATION AND TEST</b>		18-Mar-13	29-Mar-13	2.00	\$10,168	5.54	\$0	\$10,168	\$0	11.80																		
131509000	Installaton Cryomodule #9	18-Mar-13	29-Mar-13	2.00	\$10,168	5.54	\$0	\$10,168	\$0	11.80																		
<b>1.3.1.5.10 CRYOMODULE #10 INSTALLATION AND TEST</b>		04-Apr-13	17-Apr-13	2.00	\$10,168	5.54	\$0	\$10,168	\$0	14.00																		
131510000	Installaton Cryomodule #10	04-Apr-13	17-Apr-13	2.00	\$10,168	5.54	\$0	\$10,168	\$0	14.00																		
<b>1.3.1.6 MICROPHONICS</b>		01-Jun-11	30-Aug-11	12.80	\$250,000	111.37	\$0	\$250,000	\$0	4.40																		
1316005	Initial studies in accelerator tunnel	01-Jun-11	30-Jun-11	4.40	\$125,000	58.03	\$0	\$125,000	\$0	4.40																		
1316010	Analysis and mitigation development	24-Jun-11	30-Aug-11	9.40	\$125,000	53.35	\$0	\$125,000	\$0	4.40																		
<b>1.3.1.7 TEDF INTERFACE</b>		10-Aug-10	13-Jul-12	95.60	\$0	0.00	\$0	\$0	\$0	0.00																		
1317000	TEDF Summer Down 2010	10-Aug-10	09-Sep-10	4.40	\$0	0.00	\$0	\$0	\$0	7.40																		
1317005	TEDF Winter Down 2010	20-Dec-10	14-Jan-11	2.80	\$0	0.00	\$0	\$0	\$0	19.80																		
1317010	TEDF Summer Down 2011	01-Jul-11	29-Jul-11	4.00	\$0	0.00	\$0	\$0	\$0	19.60																		
1317015	TEDF Winter Down 2011	19-Dec-11	20-Jan-12	3.60	\$0	0.00	\$0	\$0	\$0	15.80																		
1317020	Transition - Planning and Coordination	03-Oct-11	13-Apr-12	26.00	\$0	0.00	\$0	\$0	\$0	0.00																		
1317025	Transition - Cryomodule Work Center	02-Apr-12*	25-May-12	8.00	\$0	0.00	\$0	\$0	\$0	0.00																		
1317035	CMTF Down - TL Renovation	29-May-12	13-Jul-12*	6.60	\$0	0.00	\$0	\$0	\$0	0.00																		
<b>1.3.2 POWER SYSTEMS</b>		02-Jan-09	31-Oct-14	290.20	\$4,575,836	2267.72	\$13,538,409	\$18,467,651	\$353,406	35.00																		
<b>1.3.2.1 RF</b>		21-Apr-09	30-Sep-13	221.00	\$2,936,167	1444.33	\$9,167,332	\$12,291,431	\$187,931	49.60																		
<b>1.3.2.1.1 POWER</b>		21-Apr-09	30-Sep-13	221.00	\$1,363,382	670.26	\$7,675,406	\$9,147,991	\$109,203	49.60																		
<b>1.3.2.1.1.1 KLYSTRONS</b>		21-Apr-09	30-Sep-13	221.00	\$337,759	92.00	\$3,663,186	\$4,024,621	\$23,676	49.60																		
13211025M	Klystron Contract Awarded (KLYSTRONS)	21-Apr-09		0.00	\$0	0.00	\$0	\$0	\$0	-7.40																		
13211030	Vend Dsgn Period (Klystrons)	21-Apr-09	07-Aug-09	15.40	\$0	0.00	\$98,456	\$98,456	\$0	24.80																		
13211035	Klystron Dsgn Review & Approval for Production (Klystrons)	10-Aug-09	14-Aug-09	1.00	\$9,331	4.20	\$0	\$9,331	\$0	24.80																		
13211040	Vend Manufacture First article Klystron (Order and Recieve Parts)	17-Aug-09	20-Nov-09	13.80	\$0	0.00	\$147,684	\$147,684	\$0	63.40																		
13211040A	Vend Manufacture First article Klystron (First Article Testing)	17-Aug-09	21-Apr-10	33.40	\$0	0.00	\$196,912	\$196,912	\$0	35.20																		
13211040B	Vend Manufacture First article Klystron (Delivery of FA Report)	17-Aug-09	06-Jul-10	43.80	\$0	0.00	\$49,228	\$49,228	\$0	24.80																		
13211042	Vend Manufacture First article Klystron (Klystrons) LABOR/EXPS FY09	17-Aug-09	30-Sep-09	6.40	\$0	0.00	\$0	\$806	\$806	24.80																		
13211042b	Vend Manufacture First article Klystron (Klystrons) LABOR/EXPS FY10	01-Oct-09	06-Jul-10	37.40	\$0	0.00	\$0	\$4,859	\$4,859	24.80																		
13211045	Test First article Klystron (Klystrons)	21-Apr-10	04-May-10	2.00	\$8,104	4.00	\$0	\$14,334	\$6,230	33.40																		
13211049	Grant Approval for Klystron Production, (Klystrons)	07-Jul-10	13-Jul-10	1.00	\$795	0.30	\$0	\$795	\$0	24.80																		
13211049M	Start of Klystron Production	14-Jul-10		0.00	\$0	0.00	\$0	\$0	\$0	24.80																		
13211050	Vend Klystron Production (Klystron 1&2)	14-Jul-10	31-Mar-11	35.20	\$0	0.00	\$73,514	\$73,514	\$0	48.00																		
13211050A	Vend Klystron Production (Klystrons 3-6)	14-Jul-10	29-Apr-11	39.40	\$0	0.00	\$147,028	\$147,028	\$0	118.00																		
13211050B	Vend Klystron Production (Klystrons 7-10)	14-Jul-10	27-May-11	43.40	\$0	0.00	\$147,028	\$147,028	\$0	114.00																		
13211050C	Vend Klystron Production (Klystrons 11-14)	14-Jul-10	30-Jun-11	48.00	\$0	0.00	\$147,028	\$147,028	\$0	109.40																		
13211050D	Vend Klystron Production (Klystrons 15&16)	14-Jul-10	29-Jul-11	52.00	\$0	0.00	\$73,514	\$73,514	\$0	105.40																		
13211050F	Vend Klystron Production (Klystrons 17-19)	14-Jul-10	29-Jul-11	52.00	\$0	0.00	\$110,271	\$110,271	\$0	105.40																		
13211050G	Vend Klystron Production (Klystrons 20-24)	14-Jul-10	31-Aug-11	56.60	\$0	0.00	\$183,785	\$18																				



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023
13211050L	Vend Klystron Production (Klystrons 49-54)	14-Jul-10	31-Jan-12	76.40	\$0	0.00	\$220,542	\$220,542	\$0	81.00																	
13211050N	Vend Klystron Production (Klystrons 55-60)	14-Jul-10	29-Feb-12	80.40	\$0	0.00	\$220,542	\$220,542	\$0	77.00																	
13211050o	Vend Klystron Production (Klystrons 61-66)	14-Jul-10	30-Mar-12	84.80	\$0	0.00	\$220,542	\$220,542	\$0	48.40																	
13211050P	Vend Klystron Production (Klystrons 67-72)	14-Jul-10	30-Apr-12	89.00	\$0	0.00	\$220,542	\$220,542	\$0	68.40																	
13211050Q	Vend Klystron Production (Klystrons 73-78)	14-Jul-10	31-May-12	93.40	\$0	0.00	\$220,542	\$220,542	\$0	64.00																	
13211050R	Vend Klystron Production (Klystrons 79-83)	14-Jul-10	29-Jun-12	97.40	\$0	0.00	\$183,785	\$183,785	\$0	60.00																	
13211052	Vend Klystron Production LABOR/EXP FY10	14-Jul-10	30-Sep-10	11.20	\$131	0.05	\$0	\$1,526	\$1,396	66.40																	
13211052a	Vend Klystron Production LABOR/EXP FY11	01-Oct-10	30-Sep-11	49.60	\$596	0.22	\$0	\$6,974	\$6,378	66.40																	
13211052ab	Vend Klystron Production LABOR/EXP FY12	03-Oct-11	14-May-12	30.20	\$375	0.13	\$0	\$4,382	\$4,007	66.40																	
13211055	Receive & Test Production Klystrons FY11	01-Apr-11	30-Sep-11	25.60	\$11,095	5.87	\$0	\$11,095	\$0	48.00																	
13211055a	Receive & Test Production Klystrons FY12	03-Oct-11	24-Sep-12	48.60	\$21,732	11.13	\$0	\$21,732	\$0	48.00																	
13211057M	Production Klystrons Received and Tested		24-Sep-12	0.00	\$0	0.00	\$0	\$0	\$0	48.00																	
13211060	Release Prcmnt Package, Driver Amplifier (Klystrons)	07-Dec-10	13-Dec-10	1.00	\$274	0.10	\$0	\$274	\$0	54.20																	
13211065	Receive & Evaluate Driver Amplifier Proposals (Klystrons)	14-Dec-10	02-Feb-11	6.00	\$1,368	0.50	\$0	\$1,368	\$0	54.20																	
13211068	Bid Driver Amplifier Prcmnt (Klystrons)	03-Feb-11	16-Feb-11	2.00	\$274	0.10	\$0	\$274	\$0	54.20																	
13211069M	Award Driver Amplifier Prcmnt (KLYSTRONS)	17-Feb-11		0.00	\$0	0.00	\$0	\$0	\$0	54.20																	
13211070	Vend Fab Driver Amplifier 1st Article (Klystrons)	17-Feb-11	03-Mar-11	2.00	\$0	0.00	\$30,156	\$30,156	\$0	54.20																	
13211075	Dsgn Review for Driver Amplifier (Klystrons)	04-Mar-11	14-Apr-11	6.00	\$547	0.20	\$0	\$547	\$0	54.20																	
13211080	Vendor Fab Lot 1 Driver Amplifiers (Klystrons) Labor FY11	15-Apr-11	30-Sep-11	23.60	\$2,049	1.09	\$0	\$2,049	\$0	54.20																	
13211080a	Vendor Fab Lot 1 Driver Amplifiers (Klystrons) Labor FY12	03-Oct-11	18-Oct-11	2.40	\$215	0.11	\$0	\$215	\$0	54.20																	
13211080b	Vendor Fab Lot 1 Driver Amplifiers (Klystrons) Procurement	15-Apr-11	18-Oct-11	26.00	\$0	0.00	\$28,346	\$28,346	\$0	54.20																	
13211115	Vendor Fab Lot 2 of Driver Amplifiers (Klystrons)	19-Oct-11	09-Aug-12	40.00	\$0	0.00	\$61,574	\$61,574	\$0	54.20																	
13211115M	Driver amplifier Prcmnt Comp (KLYSTRONS)		09-Aug-12	0.00	\$0	0.00	\$0	\$0	\$0	54.20																	
132111911L	Proj Admin (2011) ongoing (Klystrons)	01-Oct-09	30-Sep-10	49.60	\$93,386	22.00	\$0	\$93,386	\$0	49.60																	
132111912L	Proj Admin (2012) ongoing (Klystrons)	01-Oct-10	30-Sep-11	49.60	\$96,369	22.00	\$0	\$96,369	\$0	49.60																	
132111913L	Proj Admin (2013) ongoing (Klystrons)	03-Oct-11	28-Sep-12	49.40	\$67,800	15.00	\$0	\$67,800	\$0	49.60																	
132111914L	Proj Admin (2014) ongoing (Klystrons)	01-Oct-12	30-Sep-13	49.60	\$23,320	5.00	\$0	\$23,320	\$0	49.60																	
<b>1.3.2.1.1.2 DC POWER</b>		<b>18-Jun-09</b>	<b>03-Apr-13</b>	<b>187.80</b>	<b>\$788,486</b>	<b>449.46</b>	<b>\$2,003,292</b>	<b>\$2,859,411</b>	<b>\$67,633</b>	<b>13.00</b>																	
132112081M	First Zone Installed/Tested (DC Power)		04-Aug-11	0.00	\$0	0.00	\$0	\$0	\$0	3.80																	
132112082M	Second Zone Installed/Tested (DC Power)		01-Sep-11	0.00	\$0	0.00	\$0	\$0	\$0	2.40																	
132112083M	Third Zone Installed/Tested (DC Power)		30-Sep-11	0.00	\$0	0.00	\$0	\$0	\$0	31.00																	
132112084M	Fourth Zone Installed/Tested (DC Power)		30-Nov-11	0.00	\$0	0.00	\$0	\$0	\$0	24.80																	
132112085M	Fifth Zones Installed/Tested (DC Power)		20-Dec-12	0.00	\$0	0.00	\$0	\$0	\$0	3.00																	
132112086M	Sixth Zone Installed/Tested (DC Power)		16-Jan-13	0.00	\$0	0.00	\$0	\$0	\$0	4.20																	
132112087M	Seventh Zone Installed/Tested (DC Power)		06-Feb-13	0.00	\$0	0.00	\$0	\$0	\$0	6.20																	
132112088M	Eighth Zone Installed/Tested (DC Power)		26-Feb-13	0.00	\$0	0.00	\$0	\$0	\$0	8.60																	
132112089M	Ninth Zone Installed/Tested (DC Power)		15-Mar-13	0.00	\$0	0.00	\$0	\$0	\$0	10.80																	
132112090M	Tenth Zone Installed/Tested (DC Power)		03-Apr-13	0.00	\$0	0.00	\$0	\$0	\$0	13.00																	
<b>1.3.2.1.1.2.1 High Voltage Power Supply</b>		<b>18-Jun-09</b>	<b>31-Jan-12</b>	<b>129.40</b>	<b>\$9,033</b>	<b>3.50</b>	<b>\$1,137,595</b>	<b>\$1,151,952</b>	<b>\$5,324</b>	<b>66.20</b>																	
1321121000	Bid HVPS	18-Jun-09	31-Jul-09	6.20	\$2,569	1.00	\$0	\$2,569	\$0	16.20																	
1321121005	Evaluate HVPS	03-Aug-09	17-Sep-09	6.60	\$5,138	2.00	\$0	\$5,138	\$0	16.20																	
1321121010	Award HVPS Lot 1 (3)	01-Oct-09	07-Oct-09	1.00	\$1,325	0.50	\$0	\$1,325	\$0	14.40																	
1321121015	Fabricate HVPS Lot 1 (3) Original Expenses	08-Oct-09	30-Sep-10	48.60	\$0	0.00	\$0	\$5,324	\$5,324	15.40																	
1321121020	Vend Fab HVPS Peg Point #1 Design Review	04-Jan-10	31-Mar-10	12.20	\$0	0.00	\$71,950	\$71,950	\$0	2.40																	
1321121025	Vend Fab HVPS Peg Point #2 Special Non Stock parts for 10 Systems	04-Jan-10	30-Jul-10	29.20	\$0	0.00	\$170,550	\$170,550	\$0	2.40																	
1321121030	Vend Fab HVPS Peg Point #3 Test 1st Article	04-Jan-10	30-Nov-10	46.00	\$0	0.00	\$33,265	\$33,265	\$0	2.40																	
1321121035	Vend Fab HVPS Peg Point #4 Ship and Accept 1st Article	04-Jan-10	30-Dec-10	49.40	\$0	0.00	\$117,633	\$117,633	\$0	2.40																	
1321121040	Vend Fab HVPS Peg Point #5 Ship and Accept unit #2	04-Jan-10	28-Feb-11	57.20	\$0	0.00	\$82,633	\$82,633	\$0	2.40																	
1321121045	Vend Fab HVPS Peg Point #6 Ship and Accept unit #3	04-Jan-10	31-Mar-11	61.80	\$0	0.00	\$83,133	\$83,133	\$0	3.00																	
1321121050	Vend Fab HVPS Peg Point #7 Ship and Accept unit #4	04-Jan-10	29-Apr-11	66.00	\$0	0.00	\$82,633	\$82,633	\$0	3.00																	
1321121055	Vend Fab HVPS Peg Point #8 Ship and Accept unit #5	04-Jan-10	31-May-11	70.20	\$0	0.00	\$82,633	\$82,633	\$0	3.00																	
1321121060	Vend Fab HVPS Peg Point #9 Ship and Accept unit #6	04-Jan-10	30-Sep-11	87.40	\$0	0.00	\$82,633	\$82,633	\$0	48.00																	
1321121065	Vend Fab HVPS Peg Point #10 Ship and Accept unit #7	04-Jan-10	31-Oct-11	91.60	\$0	0.00	\$82,633	\$82,633	\$0	52.80																	
1321121070	Vend Fab HVPS Peg Point #11 Ship and Accept unit #8	04-Jan-10	30-Nov-11	95.60	\$0	0.00	\$82,633	\$82,633	\$0	57.80																	
1321121075	Vend Fab HVPS Peg Point #12 Ship and Accept unit #9	04-Jan-10	31-Jan-12	103.00	\$0	0.00	\$82,633	\$82,633	\$0	61.40																	

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023		
1321122000	Order/Receive Components: Aux PS, Cabling	01-Oct-09	08-Feb-10	16.80	\$9,762	5.00	\$296,019	\$305,781	\$0	64.20																			
1321122001	Components: Aux PS, Cabling Received	09-Feb-10		0.00	\$0	0.00	\$0	\$0	\$0	64.20																			
1321122005	Fabricate: Aux PS, Cabling FY10	09-Feb-10	30-Sep-10	32.80	\$143,265	86.41	\$0	\$143,265	\$0	64.20																			
1321122001	Fabricate: Aux PS, Cabling FY11	01-Oct-10	01-Nov-10	4.40	\$19,831	11.59	\$0	\$19,831	\$0	64.20																			
1321122010	Test: Aux PS, Cabling FY10	15-Apr-10	30-Sep-10	23.60	\$18,465	10.94	\$0	\$18,465	\$0	64.20																			
1321122011	Test: Aux PS, Cabling FY11	01-Oct-10	04-Jan-11	12.00	\$9,688	5.56	\$0	\$9,688	\$0	64.20																			
1321122015	Install: Aux PS, Cabling FY11	05-Jan-11	30-Sep-11	37.60	\$22,923	13.24	\$0	\$22,923	\$0	52.20																			
1321122011	Install: Aux PS, Cabling FY12	03-Oct-11	18-Jun-12	34.80	\$21,890	12.26	\$0	\$21,890	\$0	52.20																			
1321122020	Bid Solenoid PS (10)	05-Jan-10	26-Jan-10	3.00	\$1,325	0.50	\$0	\$1,325	\$0	66.20																			
1321122021	Award Solenoid PS	03-Feb-10		0.00	\$0	0.00	\$0	\$0	\$0	66.20																			
1321122025	Fabricate, Receive & Test Solenoid PS (Original Labor)	03-Feb-10	26-May-10	16.00	\$4,641	2.50	\$0	\$4,641	\$0	66.20																			
1321122026	Fabricate Solenoid PS	07-Sep-10	30-Jun-11	40.40	\$0	0.00	\$258,751	\$258,751	\$0	52.20																			
1321122030	Install Solenoid PS FY11	10-Mar-11	30-Sep-11	28.80	\$3,099	1.81	\$0	\$3,099	\$0	52.20																			
1321122031	Install Solenoid PS FY12	03-Oct-11	18-Jun-12	34.80	\$3,864	2.19	\$0	\$3,864	\$0	52.20																			
1321122035	Bid HPA Components, Subassemblies	01-Oct-09	23-Oct-09	3.40	\$9,650	5.50	\$0	\$9,650	\$0	17.20																			
1321122031	Award HPA Components	09-Dec-09		0.00	\$0	0.00	\$0	\$0	\$0	17.20																			
1321122040	Fabricate HPA Components	08-Jan-10	07-Apr-10	12.40	\$3,339	2.00	\$310,927	\$314,266	\$0	14.00																			
1321122041	Procure AC Power Materials (208 VAC)	02-Aug-10	27-Sep-10	8.00	\$2,651	1.00	\$0	\$47,651	\$45,000	77.80																			
1321122042	Install RF Zone 208 VAC FY10	28-Sep-10	30-Sep-10	0.60	\$2,262	1.80	\$0	\$2,262	\$0	77.80																			
1321122044	Install RF Zone 208 VAC FY11	01-Oct-10	22-Nov-10	7.40	\$28,789	22.20	\$0	\$28,789	\$0	77.80																			
1321122044	Engineering Oversight FY10	01-Apr-10	30-Sep-10	25.60	\$13,320	5.03	\$0	\$13,320	\$0	80.80																			
1321122044	Engineering Oversight FY11	01-Oct-10	30-Sep-11	49.60	\$26,668	9.75	\$0	\$26,668	\$0	80.80																			
1321122044	Engineering Oversight FY12	03-Oct-11	14-Nov-11	6.20	\$3,457	1.23	\$0	\$3,457	\$0	80.80																			
1321122050	Fabricate HPA #1	12-Jan-10	07-Apr-10	12.00	\$26,198	15.50	\$0	\$34,716	\$8,519	14.00																			
1321122055	Fabricate HPA #2 FY10	01-Sep-10	30-Sep-10	4.20	\$8,505	5.08	\$0	\$8,505	\$0	14.00																			
1321122055	Fabricate HPA #2 FY11	01-Oct-10	24-Nov-10	7.80	\$16,298	9.43	\$0	\$16,298	\$0	14.00																			
1321122060	Fabricate HPA #3 FY10	30-Sep-10	30-Sep-10	0.20	\$405	0.24	\$0	\$405	\$0	15.60																			
1321122061	Fabricate HPA #3 FY11	01-Oct-10	31-Dec-10	11.80	\$24,657	14.26	\$0	\$24,657	\$0	15.60																			
1321122065	Fabricate HPA #4	28-Oct-10	01-Feb-11	12.00	\$25,074	14.50	\$0	\$25,074	\$0	15.60																			
1321122070	Fabricate HPA #5 Frozen by CR 12-028	29-Nov-10	02-Mar-11	12.00	\$25,074	14.50	\$0	\$25,074	\$0	15.60																			
1321122075	Fabricate HPA #6 Frozen by CR 12-028	04-Jan-11	30-Mar-11	12.00	\$25,074	14.50	\$0	\$25,074	\$0	73.80																			
1321122080	Fabricate HPA #7 Frozen by CR 12-028	02-Feb-11	27-Apr-11	12.00	\$25,074	14.50	\$0	\$25,074	\$0	78.80																			
1321122085	Fabricate HPA #8 Frozen by CR 12-028	03-Mar-11	25-May-11	12.00	\$25,074	14.50	\$0	\$25,074	\$0	83.80																			
1321122090	Fabricate HPA #9 Frozen by CR 12-028	31-Mar-11	23-Jun-11	12.00	\$25,074	14.50	\$0	\$25,074	\$0	92.00																			
1321122095	Fabricate HPA #10 Frozen by CR 12-028	28-Apr-11	22-Jul-11	12.00	\$25,074	14.50	\$0	\$25,074	\$0	92.80																			
1321122100	Install/Test HPA #1	31-Dec-10	04-Aug-11	30.00	\$16,796	9.80	\$0	\$25,586	\$8,790	3.80																			
1321122105	Install/Test HPA #2	01-Mar-11	01-Sep-11	26.20	\$16,796	9.80	\$0	\$16,796	\$0	2.40																			
1321122110	Install/Test HPA #3	01-Apr-11	30-Sep-11	25.60	\$16,796	9.80	\$0	\$16,796	\$0	31.00																			
1321122115	Install/Test HPA #4 FY11	02-May-11	30-Sep-11	21.40	\$14,151	8.26	\$0	\$14,151	\$0	29.00																			
1321122111	Install/Test HPA #4 FY12	03-Oct-11	28-Oct-11	4.00	\$2,729	1.54	\$0	\$2,729	\$0	29.00																			
1321122120	Install/Test HPA #5 FY11 Frozen by CR 12-028	01-Jun-11	30-Sep-11	17.20	\$11,464	6.69	\$0	\$11,464	\$0	3.00																			
1321122121	Install/Test HPA #5 FY12 Frozen by CR 12-028	03-Oct-11	29-Nov-11	8.00	\$5,502	3.11	\$0	\$5,502	\$0	3.00																			
1321122125	Install/Test HPA #6 Frozen by CR 12-028	03-Oct-11	29-Feb-12	19.60	\$9,230	5.22	\$0	\$9,230	\$0	48.00																			
1321122130	Install/Test HPA #7 Frozen by CR 12-028	01-Nov-11	29-Feb-12	15.40	\$7,253	4.10	\$0	\$7,253	\$0	52.80																			
1321122135	Install/Test HPA #8 Frozen by CR 12-028	01-Dec-11	29-Feb-12	11.40	\$5,458	3.09	\$0	\$5,458	\$0	57.80																			
1321122140	Install/Test HPA #9 Frozen by CR 12-028	01-Feb-12	29-Feb-12	4.00	\$1,925	1.09	\$0	\$1,925	\$0	62.60																			
1321122145	Install/Test HPA #10 Frozen by CR 12-028	01-Feb-12	29-Feb-12	4.00	\$1,936	1.10	\$0	\$1,936	\$0	67.40																			
1321122150	Fabricate HPA #5 Revised per CR 12-028	01-Oct-12	02-Nov-12	5.00	\$13,349	7.25	\$0	\$13,349	\$0	4.20																			
1321122155	Fabricate HPA #6 Revised per CR 12-028	22-Oct-12	27-Nov-12	5.00	\$13,349	7.25	\$0	\$13,349	\$0	5.00																			
1321122160	Fabricate HPA #7 Revised per CR 12-028	12-Nov-12	18-Dec-12	5.00	\$13,349	7.25	\$0	\$13,349	\$0	6.80																			
1321122165	Fabricate HPA #8 Revised per CR 12-028	05-Dec-12	16-Jan-13	5.00	\$13,349	7.25	\$0	\$13,349	\$0	8.80																			
1321122170	Fabricate HPA #9 Revised per CR 12-028	19-Dec-12	31-Jan-13	5.00	\$13,349	7.25	\$0	\$13,349	\$0	11.60																			
1321122175	Fabricate HPA #10 Revised per CR 12-028	10-Jan-13	14-Feb-13	5.00	\$13,349	7.25	\$0	\$13,349	\$0	14.40																			
1321122180	Install/Test HPA #5 Revised per CR 12-028	13-Nov-12	20-Dec																										









Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
132123010b	Fab Chassis & Cable Harnesses Procurement	30-Jun-10	28-Feb-11	32.40	\$0	0.00	\$32,964	\$32,964	\$0	84.80																			
132123012	Install Rack Supports & Conduit	02-Jul-10	27-Sep-10	12.00	\$26,714	16.00	\$0	\$36,714	\$10,000	85.80																			
132123015	Install Chassis, Racks & Cabling Labor FY11	23-Nov-10	30-Sep-11	42.20	\$129,504	63.70	\$0	\$132,991	\$3,487	77.80																			
132123015a	Install Chassis, Racks & Cabling Labor FY12	03-Oct-11	03-Oct-11	0.20	\$633	0.30	\$0	\$650	\$17	77.80																			
132123015b	Install Chassis, Racks & Cabling Labor Procurement	23-Nov-10	03-Oct-11	42.40	\$0	0.00	\$11,701	\$11,701	\$0	77.80																			
132123020M	5 Racks Installed (PACKAGING)		03-Jun-11	0.00	\$0	0.00	\$0	\$0	\$0	77.80																			
132123025M	All Racks Installed (PACKAGING)		03-Oct-11	0.00	\$0	0.00	\$0	\$0	\$0	86.80																			
<b>1.3.2.1.2.4 CPU &amp; SOFTWARE</b>																													
132124000	Bid & Award PC104 & Test (CPU)	03-May-10	25-Feb-11	40.40	\$30,047	14.00	\$68,709	\$104,677	\$5,921	50.20																			
132124001	Vend Fab PC104 & Test (CPU)	02-Jun-10	01-Oct-10	17.20	\$0	0.00	\$67,575	\$67,575	\$0	25.20																			
132124005	EPICS Interface (CPU)	04-Oct-10	10-Jan-11	12.60	\$9,003	4.00	\$1,134	\$13,641	\$3,504	56.60																			
132124010	Test Software (CPU)	01-Nov-10	25-Feb-11	15.00	\$9,003	4.00	\$0	\$9,003	\$0	25.20																			
<b>1.3.2.1.2.5 TEST STAND</b>																													
132125000	Bid & Award Test Equipment (Test STAND)	04-Nov-09	24-Jan-11	59.40	\$169,181	78.00	\$163,246	\$339,548	\$7,122	14.80																			
132125001	Vend Fab Test Equipment (Test STAND)	09-Feb-10	04-May-10	12.00	\$0	0.00	\$113,395	\$113,395	\$0	14.80																			
132125005	Assemble Test Stand (Test STAND)	01-Jul-10	28-Sep-10	12.40	\$32,788	18.00	\$38,150	\$73,377	\$2,439	14.80																			
132125010	Automation Software FY10	28-Jun-10	30-Sep-10	13.40	\$23,075	9.83	\$0	\$23,075	\$0	14.80																			
132125010a	Automation Software FY11	01-Oct-10	01-Dec-10	8.40	\$14,927	6.17	\$0	\$14,927	\$0	14.80																			
132125015	Program Cavity Simulator (Test STAND) FY10	07-Jul-10	30-Sep-10	12.20	\$41,824	17.43	\$0	\$41,824	\$0	17.80																			
132125015a	Program Cavity Simulator (Test STAND) FY11	01-Oct-10	04-Oct-10	0.40	\$1,415	0.57	\$0	\$1,415	\$0	17.80																			
132125020	Test Automation (Test STAND)	05-Oct-10	24-Jan-11	14.20	\$46,055	22.00	\$11,701	\$62,439	\$4,683	14.80																			
<b>1.3.2.1.2.7 HPA CONTROLS</b>																													
132127000	Bid & Award HPA Board (HPA CNTLS)	01-Oct-10	04-Jan-11	12.00	\$7,758	4.00	\$0	\$7,758	\$0	4.40																			
132127001	Vend Fab HPA Board (HPA CNTLS)	05-Jan-11	01-Apr-11	12.20	\$0	0.00	\$40,954	\$40,954	\$0	4.40																			
132127005	First Article Test (HPA CNTLS)	02-Dec-10	02-Feb-11	7.60	\$16,230	8.00	\$0	\$16,230	\$0	12.60																			
132127010M	Final Board Delivered (HPA CNTLS)		01-Apr-11	0.00	\$0	0.00	\$0	\$0	\$0	4.40																			
132127015	Chassis Fab & Test (HPA CNTLS)	02-May-11	01-Sep-11	17.40	\$72,441	39.00	\$17,552	\$94,676	\$4,683	4.40																			
132127020M	Final Bench Test (HPA CNTLS)		15-Feb-11	0.00	\$0	0.00	\$0	\$0	\$0	4.40																			
132127025	Installtn (HPA CNTLS) Labor FY11 Frozen per CR 12-028	15-Feb-11	30-Sep-11	32.00	\$21,524	11.66	\$0	\$23,162	\$1,638	4.40																			
132127025a	Installtn (HPA CNTLS) Labor FY12 Frozen per CR 12-028	03-Oct-11	13-Feb-12	17.40	\$12,077	6.34	\$0	\$12,996	\$919	4.40																			
132127025b	Installtn (HPA CNTLS) Procurement Frozen per CR 12-028	15-Feb-11	13-Feb-12	49.40	\$0	0.00	\$13,527	\$13,527	\$0	4.40																			
132127030	Installtn (HPA CNTLS) Labor Revised per CR12-028	01-Oct-12	15-Feb-13	18.20	\$17,690	9.00	\$0	\$19,009	\$1,319	4.20																			
132127035	Installtn (HPA CNTLS) Procurement Revised per CR12-028	01-Oct-12	28-Feb-13	19.80	\$0	0.00	\$6,979	\$6,979	\$0	4.20																			
132127040	Reverse Entry per CR12-028	05-Mar-12	23-Mar-12	3.00	(\$17,143)	-9.00	(\$6,763)	(\$25,185)	(\$1,278)	26.40																			
<b>1.3.2.1.3 INSTALLATION &amp; SYSTEM COMMISSIONING (Test Equipment, System Integration Labor)</b>																													
13213000	Bid & Award Test Equipment (Install & SYS COMMIS)	01-Oct-10	04-Jan-11	12.00	\$9,386	4.00	\$0	\$12,890	\$3,504	14.60																			
13213001	Vend Fab Test Equipment (Install & SYS COMMIS)	05-Jan-11	31-Mar-11	12.00	\$0	0.00	\$81,636	\$81,636	\$0	14.60																			
13213005	Fab & Program RF Test Stand (Install & SYS COMMIS)	03-Mar-11	25-May-11	12.00	\$65,662	28.00	\$0	\$68,099	\$2,438	14.60																			
13213010	RF Sys Tests #1 (Install & SYS COMMIS)	29-Jul-11	11-Aug-11	2.00	\$9,351	4.90	\$0	\$9,595	\$244	3.80																			
13213010a	RF Sys Tests #2 (Install & SYS COMMIS)	26-Aug-11	09-Sep-11	2.00	\$9,351	4.90	\$0	\$9,595	\$244	2.40																			
13213010b	RF Sys Tests #3 (Install & SYS COMMIS)	29-May-12	12-Jun-12	2.00	\$9,649	4.90	\$0	\$9,900	\$252	58.00																			
13213010c	RF Sys Tests #4 (Install & SYS COMMIS)	11-Jun-12	22-Jun-12	2.00	\$9,649	4.90	\$0	\$9,900	\$252	1.00																			
13213015	RF Cavity Tests Cryomodule #1 (Install & SYS COMMIS)	12-Aug-11	07-Sep-11	3.60	\$8,109	4.10	\$0	\$8,352	\$243	100.00																			
13213015a	RF Cavity Tests Cryomodule #2 (Install & SYS COMMIS) FY11	12-Sep-11	30-Sep-11	3.00	\$6,757	3.42	\$0	\$6,959	\$202	96.00																			
13213015ab	RF Cavity Tests Cryomodule #2 (Install & SYS COMMIS) FY12	03-Oct-11	05-Oct-11	0.60	\$1,395	0.68	\$0	\$1,437	\$42	96.00																			
13213015c	RF Cavity Tests Cryomodule #4 (Install & SYS COMMIS)	25-Jun-12	18-Jul-12	3.60	\$8,368	4.10	\$0	\$8,618	\$250	57.40																			
13213015d	RF Cavity Tests Cryomodule #5 (Install & SYS COMMIS)	04-Jul-12	27-Jul-12	3.60	\$8,368	4.10	\$0	\$8,618	\$250	56.00																			
13213020M	Comp Cavity Tests (INSTALL & SYS COMMIS)		23-Aug-13	0.00	\$0	0.00	\$0	\$0	\$0	2.60																			
<b>1.3.2.2 MAGNET POWER</b>																													
<b>1.3.2.2.1 BOX SUPPLIES</b>																													
13221003	Bid/Award Box 1000 kW PS - Arc (Box SUPPLIES)	08-Jul-10	30-Sep-10	12.00	\$14,398	6.00	\$0	\$14,398	\$0	-25.80																			
13221004M	Award Magnet System Box Power Supplies	01-Oct-10	0.00	0.00	\$0	0.00	\$0	\$0	\$0	-25.80																			
13221005	Vend Fab Magnet System Box Power Supplies Oversight FY10	19-Mar-10	30-Sep-10	27.40	\$10,365	3.91	\$0	\$16,711	\$6,346	113.00																			
13221005A	Vend Fab Magnet System Box Power Supplies Oversight FY11	01-Oct-10	30-Sep-11	49.60	\$19,283	7.05	\$0	\$25,832	\$6,549	113.00																			
13221005B	Vend Fab Magnet System Box Power Supplies Oversight FY12	03-Oct-11	31-Oct-11	4.20	\$1,411	0.50	\$0	\$1,411	\$0	113.00																			
13221010	Vend Fab Magnet System Box Power Supplies Peg Point #1 Preliminary Design Report	19-Mar-10	28-May-10	10.20	\$0	0.00																							

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023		
13221010C	Vend Fab Magnet System Box Power Supplies Peg Point #4 First Article Testing - All To...	19-Mar-10	28-Feb-11	46.80	\$0	0.00	\$169,627	\$169,627	\$0	67.80																			
13221010D	Vend Fab Magnet System Box Power Supplies Peg Point #5 Delivery and Accp of Prod ...	19-Mar-10	31-Mar-11	51.40	\$0	0.00	\$169,627	\$169,627	\$0	67.80																			
13221010H	Vend Fab Magnet System Box Power Supplies Peg Point #8 Delivery and Accp of Prod ...	19-Mar-10	30-Jun-11	64.20	\$0	0.00	\$424,067	\$424,067	\$0	67.80																			
13221010J	Reverse Entry Per CR 11-055	01-Aug-11	05-Aug-11	1.00	(\$12,582)	-6.41	(\$1,364,201)	(\$1,377,709)	(\$926)	7.80																			
13221010K	Revised Schedule per CR11-055 Vend Fab Magnet Box Power Supplies 1st Article M1 ...	01-Aug-11	31-Oct-11	13.00	\$0	0.00	\$169,627	\$169,627	\$0	67.80																			
13221010L	Revised Schedule per CR11-055 Vend Fab Magnet Box Power Supplies Delivery of LA...	01-Aug-11	31-Jan-12	24.40	\$0	0.00	\$73,300	\$73,300	\$0	67.80																			
13221010N	Vend Fab Magnet System Box Power Supplies Peg Point #12 Delivery and Accp of Prod...	18-Mar-10	31-Aug-11	73.00	\$0	0.00	\$339,254	\$339,254	\$0	164.20																			
13221010Na	Revised Schedule per CR11-055 Vend Fab Magnet Box Power Supplies Delivery of LA...	01-Aug-11	29-Feb-12	28.40	\$0	0.00	\$73,300	\$73,300	\$0	67.80																			
13221010P	Vend Fab Magnet System Box Power Supplies Peg Point #13 Delivery and Accp of Spar...	18-Mar-10	31-Aug-11	73.00	\$0	0.00	\$92,000	\$92,000	\$0	164.20																			
13221010Pa	Revised Schedule per CR11-055 Vend Fab Magnet Box Power Supplies Delivery of XS...	01-Aug-11	30-Mar-12	32.80	\$0	0.00	\$73,300	\$73,300	\$0	67.80																			
13221010Q	Revised Schedule per CR11-055 Vend Fab Magnet Box Power Supplies Delivery of XS...	01-Aug-11	30-Mar-12	32.80	\$0	0.00	\$73,300	\$73,300	\$0	67.80																			
13221010R	Revised Schedule per CR11-055 Vend Fab Magnet Box Power Supplies Delivery of RS...	01-Aug-11	30-Mar-12	32.80	\$0	0.00	\$73,300	\$73,300	\$0	67.80																			
13221010S	Revised Schedule per CR11-055 Vend Fab Magnet Box Power Supplies Delivery of RS...	01-Aug-11	30-Mar-12	32.80	\$0	0.00	\$73,300	\$73,300	\$0	67.80																			
13221010T	Revised Schedule per CR11-055 Vend Fab Magnet Box Power Supplies Delivery of ARC2	01-Aug-11	30-Mar-12	32.80	\$0	0.00	\$73,300	\$73,300	\$0	67.80																			
13221010U	Revised Schedule per CR11-055 Vend Fab Magnet Box Power Supplies Delivery of ARC4	01-Aug-11	30-Mar-12	32.80	\$0	0.00	\$73,300	\$73,300	\$0	67.80																			
13221010V	Revised Schedule per CR11-055 Vend Fab Magnet Box Power Supplies Delivery of ARC5	01-Aug-11	30-Mar-12	32.80	\$0	0.00	\$73,300	\$73,300	\$0	67.80																			
13221010W	Revised Schedule per CR11-055 Vend Fab Magnet Box Power Supplies Delivery of ARC7	01-Aug-11	30-Mar-12	32.80	\$0	0.00	\$73,300	\$73,300	\$0	67.80																			
13221010X	Revised Schedule per CR11-055 Vend Fab Magnet Box Power Supplies Delivery of ARC3	01-Aug-11	30-Mar-12	32.80	\$0	0.00	\$73,300	\$73,300	\$0	67.80																			
13221010Y	Revised Schedule per CR11-055 Vend Fab Magnet Box Power Supplies Delivery of ARC6	01-Aug-11	30-Mar-12	32.80	\$0	0.00	\$73,300	\$73,300	\$0	67.80																			
13221010Z	Revised Schedule per CR11-055 Vend Fab Magnet Box Power Supplies Delivery of AR...	01-Aug-11	30-Mar-12	32.80	\$0	0.00	\$73,300	\$73,300	\$0	67.80																			
13221010Za	Revised Schedule per CR11-055 Vend Fab Magnet Box Power Supplies Delivery of ARC8	01-Aug-11	30-Mar-12	32.80	\$0	0.00	\$73,300	\$73,300	\$0	67.80																			
13221010Zb	Revised Schedule per CR11-055 Vend Fab Magnet Box Power Supplies Delivery of ARC9	01-Aug-11	30-Mar-12	32.80	\$0	0.00	\$73,300	\$73,300	\$0	67.80																			
13221010Zc	Revised Schedule per CR11-055 Vend Fab Magnet Box Power Supplies Delivery of Fina...	01-Aug-11	30-Mar-12	32.80	\$0	0.00	\$95,074	\$95,074	\$0	67.80																			
13221015	Receive & Inpect Magnet System Box Power Supplies (Frozen per CR11-055)	01-Mar-11	29-Jul-11	21.40	\$3,406	1.99	\$0	\$3,406	\$0	126.00																			
13221015a	Receive & Inpect Magnet System Box Power Supplies (Revised by CR11-055)	27-Jan-12	29-Feb-12	4.60	\$756	0.43	\$0	\$756	\$0	67.80																			
13221020	Place/Connect/Check-out Magnet System Box Power Supplies (Frozen per CR11-055)	13-Jul-11	29-Jul-11	2.60	\$9,176	4.42	\$0	\$10,102	\$926	137.40																			
13221020a	Place/Connect/Check-out Magnet System Box Power Supplies (Revised by CR11-055)	29-Feb-12	16-Mar-12	2.48	\$9,046	4.22	\$0	\$9,959	\$913	67.80																			
13221021	Reverse Entry Per CR12-029	02-Mar-12	15-Mar-12	2.00	\$0	0.00	(\$1,194,574)	(\$1,194,574)	\$0	27.60																			
13221021A	Additional Reverse Entry Per CR12-029A	03-Apr-12	16-Apr-12	2.00	\$0	0.00	(\$169,627)	(\$169,627)	\$0	23.20																			
13221022	Procurement Prep for Magnet Box Power Supplies Revised per CR12-029	01-Mar-12	21-May-12	11.60	\$11,290	4.00	\$0	\$11,290	\$0	0.00																			
13221022a	Magnet Box Power Supply Contract Oversight FY12	22-May-12	28-Sep-12	18.20	\$14,112	5.00	\$0	\$18,112	\$4,000	3.60																			
13221022b	Magnet Box Power Supply Contract Oversight FY13	01-Oct-12	30-Sep-13	49.60	\$20,387	7.00	\$0	\$26,578	\$6,191	3.60																			
13221022c	Magnet Box Power Supply Contract Oversight FY14	01-Oct-13	30-May-14	32.60	\$5,825	2.00	\$0	\$7,889	\$2,064	3.60																			
13221022D	Vend Fab Magnet Box Power Supplies Peg Point #1 - Design Review (Kick-off Meeting)	24-Aug-12	31-Jan-13	21.00	\$0	0.00	\$173,494	\$173,494	\$0	0.00																			
13221023	Vend Fab Magnet Box Power Supplies Peg Point #1A - Receipt of Materials	24-Aug-12	30-Apr-13	33.40	\$0	0.00	\$346,988	\$346,988	\$0	0.00																			
13221023A	Vend Fab Magnet Box Power Supplies Peg Point #2 - First Power Supply (ARC 2) Deliv...	24-Aug-12	31-Jul-13	46.20	\$0	0.00	\$0	\$0	\$0	0.00																			
13221023B	Vend Fab Magnet Box Power Supplies Peg Point #3 - First Power Supply (ARC 2) Acce...	24-Aug-12	30-Aug-13	50.60	\$0	0.00	\$57,000	\$57,000	\$0	35.00																			
13221023C	Vend Fab Magnet Box Power Supplies Peg Point #4 - ARC 3, 4, 5, 6 and LAM 1 Deliver...	24-Aug-12	27-Nov-13	63.00	\$0	0.00	\$290,775	\$290,775	\$0	35.00																			
13221023D	Vend Fab Magnet Box Power Supplies Peg Point #4 *** Delivery Incentive Bonus*****	24-Aug-12	27-Nov-13	63.00	\$0	0.00	\$80,000	\$80,000	\$0	35.00																			
13221023F	Vend Fab Magnet Box Power Supplies Peg Point #5 - ARC 7, 8, 9, 10, RSEP 8 and XSE...	24-Aug-12	30-Apr-14	83.00	\$0	0.00	\$377,630	\$377,630	\$0	35.00																			
13221023G	Vend Fab Magnet Box Power Supplies Peg Point #5 *** Delivery Incentive Bonus*****	24-Aug-12	30-Apr-14	83.00	\$0	0.00	\$80,000	\$80,000	\$0	35.00																			
13221023H	Vend Fab Magnet Box Power Supplies Peg Point #6 - LAM 3, XSEP 8 and RSEP 9 Deliv...	24-Aug-12	30-May-14	87.20	\$0	0.00	\$104,565	\$104,565	\$0	35.00																			
13221023J	Vend Fab Magnet Box Power Supplies Peg Point #6 *** Delivery Incentive Bonus*****	24-Aug-12	30-May-14	87.20	\$0	0.00	\$40,000	\$40,000	\$0	35.00																			
13221023K	Vend Fab Magnet Box Power Supplies Peg Point #7 Acceptance Test at JLab	24-Aug-12	31-Oct-14	108.80	\$0	0.00	\$384,488	\$384,488	\$0	35.00																			
13221023L	Vend Fab Magnet Box Power Supplies Peg Point #8 Delivery of Spares	24-Aug-12	31-Jul-14	95.80	\$0	0.00	\$53,800	\$53,800	\$0	35.00																			
13221024	Receive & Inpect Magnet System Box Power Supplies (Revised by CR12-029)	01-Aug-13	13-Jun-14	43.00	\$5,046	2.77	\$0	\$5,046	\$0	0.00																			
13221024a	Place/Connect/Check-out Magnet System Box Power Supplies (Revised by CR12-029)	08-Aug-13	20-Jun-14	43.00	\$146,245	66.18	\$0	\$160,999	\$14,754	0.00																			
13221025	Test Magnet System Box Power Supplies w/Dummy Load	15-Aug-13	27-Jun-14	43.00	\$138,246	64.00	\$0	\$138,246	\$0	0.00																			
13221025A	Test T&M PS	05-Mar-12	01-Jun-12	12.80	\$11,800	5.00	\$0	\$11,800	\$0	102.40																			
13221026	Magnet Box Power Supply Original Vendor Refund	02-Apr-12	20-Apr-12	3.00	\$0	0.00	(\$149,000)	(\$149,000)	\$0	22.40																			
13221028	Prcmnt Prep for Box 600/500kW PS - Arc & Septa (Box SUPPLIES)	02-Jan-09	30-Mar-09	12.00																									





Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
13222095	Installation and Testing - Track Regulator and 30/80 Revised Per CR 12-028	10-Apr-13	07-May-13	4.00	\$4,734	2.00	\$0	\$4,734	\$0	51.80																		
13222100	Data Entry/Paperwork - Track Regulator and 30/80 Frozen Per CR 12-028	22-Sep-11	23-Sep-11	0.40	\$684	0.40	\$0	\$684	\$0	136.20																		
13222100A	Data Entry/Paperwork - Track Regulator and 30/80 Revised Per CR 12-028	08-May-13	10-Jun-13	4.60	\$834	0.40	\$0	\$834	\$0	51.80																		
13222105	Engineering, Drafting and Software - 75 Amp Shunt Upgrade	23-Aug-11	29-Aug-11	1.00	\$7,667	3.00	\$0	\$7,667	\$0	120.80																		
13222110	Oversight (Labor) - 75 Amp Shunt Upgrade	30-Aug-11	20-Sep-11	3.00	\$1,711	1.00	\$0	\$1,711	\$0	120.80																		
13222115	Procurement (Parts) - 75 Amp Shunt Upgrade	07-Sep-11	20-Sep-11	2.00	\$0	0.00	\$310	\$310	\$0	120.80																		
13222120	Modifications and Testing - 75 Amp Shunt Upgrade FY11	21-Sep-11	30-Sep-11	1.60	\$2,672	1.56	\$0	\$2,672	\$0	120.80																		
13222120a	Modifications and Testing - 75 Amp Shunt Upgrade FY12	03-Oct-11	19-Oct-11	2.60	\$4,480	2.54	\$0	\$4,480	\$0	120.80																		
13222125	Installation and Testing - 75 Amp Shunt Upgrade Part A	20-Oct-11	02-Nov-11	2.00	\$3,530	2.00	\$0	\$3,530	\$0	130.20																		
13222130	Installation and Testing - 75 Amp Shunt Upgrade Part B	01-Oct-12	30-Nov-12	8.60	\$1,822	1.00	\$0	\$1,822	\$0	74.00																		
13222140	Update Machine Documentation - 75 Amp Shunt Upgrade Part A	03-Nov-11	04-Nov-11	0.40	\$757	0.40	\$0	\$757	\$0	130.20																		
13222142	Update Machine Documentation - 75 Amp Shunt Upgrade Part B	03-Dec-12	31-Dec-12	3.20	\$417	0.20	\$0	\$417	\$0	74.00																		
13222145	Engineering (Design) - Shunt Adder System Removal	06-Jun-11	08-Jun-11	0.60	\$1,026	0.60	\$0	\$1,026	\$0	145.00																		
13222150	Component Removal - Shunt Adder System Removal	05-Jun-12	13-Jun-12	1.40	\$1,765	1.00	\$0	\$1,765	\$0	96.20																		
13222155	Reconfiguration and Testing - Shunt Adder System Removal	14-Jun-12	22-Jun-12	1.40	\$1,589	0.90	\$0	\$1,589	\$0	96.20																		
13222160	Update Machine Documentation - Shunt Adder System RemovalNew Activity	16-Jul-12	17-Jul-12	0.40	\$706	0.40	\$0	\$706	\$0	96.20																		
13222165	Engineering and Drafting - 12GEV Shunt Shuffle	12-Mar-12	04-May-12	8.00	\$19,371	8.00	\$0	\$19,371	\$0	77.00																		
13222170	Pull and Modify - 12GEV Shunt Shuffle	06-Jun-12	27-Aug-12	11.80	\$10,237	5.50	\$0	\$10,237	\$0	77.00																		
13222175	Clean and Modify Racks - 12GEV Shunts	28-Aug-12	10-Sep-12	1.80	\$3,530	2.00	\$0	\$3,530	\$0	77.00																		
13222180	Reinstall Chassis' in Racks - 12GEV Shunts	11-Sep-12	24-Sep-12	2.00	\$3,530	2.00	\$0	\$3,530	\$0	77.00																		
13222185	New Screens for 12 GEV Shunts	07-May-12	11-May-12	1.00	\$2,625	1.00	\$0	\$2,625	\$0	95.60																		
13222190	Reconfiguration and Testing - 12GEV Shunts	04-Feb-13	01-Apr-13	8.00	\$7,286	4.00	\$0	\$7,286	\$0	60.00																		
13222195	Update Machine Documentation - 12GEV Shunts	02-Apr-13	11-Apr-13	1.60	\$3,541	1.50	\$0	\$3,541	\$0	60.00																		
13222200	Engineering, Drafting and Software - 25 Amp Shunts	26-Mar-12	29-Jun-12	13.60	\$5,645	2.00	\$0	\$5,645	\$0	66.00																		
13222205	Procurement Labor - 25 Amp Shunts FY12	02-Jul-12	28-Sep-12	12.80	\$2,077	0.74	\$0	\$2,077	\$0	66.00																		
13222205a	Procurement Labor - 25 Amp Shunts FY13	01-Oct-12	31-Oct-12	4.60	\$770	0.26	\$0	\$770	\$0	66.00																		
13222210	Procurements - 25 Amp Shunts	02-Jul-12	31-Oct-12	17.40	\$0	0.00	\$6,000	\$6,000	\$0	66.00																		
13222215	Modification - 25 Amp Shunt Upgrade	25-Oct-12	30-Nov-12	5.00	\$10,199	5.00	\$0	\$10,199	\$0	66.00																		
13222220	Installation and Testing - 25 Amp Shunt Upgrade	03-Dec-12	31-Jan-13	7.40	\$4,734	2.00	\$0	\$4,734	\$0	66.00																		
13222230	Drafting (Update Machine Drawings)	01-Feb-13	28-Feb-13	3.80	\$4,752	2.20	\$0	\$4,752	\$0	66.00																		
<b>1.3.2.2.3 TRIMS</b>		<b>07-Apr-10</b>	<b>04-Sep-13</b>	<b>169.80</b>	<b>\$185,041</b>	<b>89.79</b>	<b>\$1,388,537</b>	<b>\$1,598,778</b>	<b>\$25,200</b>	<b>24.00</b>																		
13223010	Relocate and Reuse Trim Hardware for Hall D	14-May-12	07-Aug-12	12.00	\$8,045	4.50	\$0	\$13,369	\$5,324	46.00																		
13223015	Test Trim Rack Hardware (10 ATRIMS)	01-Oct-12	30-Nov-12	8.60	\$3,278	1.50	\$0	\$3,278	\$0	38.60																		
13223020	Reconfigure 10 Amp Trim System (Arc 10 Hall D) (10 A TRIMS)	01-Oct-12	01-May-13	28.60	\$17,803	8.50	\$0	\$17,803	\$0	5.80																		
13223025	Assemble & Test 10 amp Trim System (10 A TRIMS)	02-May-13	01-Aug-13	12.80	\$12,907	6.00	\$0	\$12,907	\$0	5.80																		
13223030	Proc Rack Hardware for 20 amp Trim PS/Wait for Delivery (20 A TRIMS)	05-Jan-11	28-Apr-11	16.00	\$5,470	2.00	\$116,218	\$121,689	\$0	58.40																		
13223035	Assemble Racks for 20 amp Trim PS (20 A TRIMS) Frozen per CR12-028	29-Apr-11	30-Sep-11	21.60	\$21,385	12.50	\$0	\$25,920	\$4,535	68.60																		
13223035A	Reverse Entry Per CR12-028	05-Mar-12	23-Mar-12	3.00	(\$26,672)	-15.11	\$0	(\$33,556)	(\$6,884)	26.40																		
13223036	Assemble Racks for 20 amp Trims Part A	02-Apr-12	09-Jul-12	13.80	\$5,296	3.00	\$0	\$6,796	\$1,500	12.80																		
13223036A	Assemble Racks for 20 amp Trims Part B	01-Oct-12	14-Feb-13	18.00	\$21,859	12.00	\$0	\$24,991	\$3,132	1.20																		
13223038	Bid 20 amp Trim PS (20 A Trims)	07-Apr-10	24-Sep-10	24.00	\$6,627	2.50	\$0	\$6,627	\$0	80.60																		
13223039M	Award 20 amp Trim PS (20 A Trims)	05-Jan-11		0.00	\$0	0.00	\$0	\$0	\$0	67.80																		
13223045	Monitor Design & Development & Test of First Article (20 A Trims)	05-Jan-11	28-Apr-11	16.00	\$5,470	2.00	\$0	\$7,738	\$2,268	67.80																		
13223050	Monitor Production and Delivery of PS (20 A Trims) P1 (original Labor and Expenses)	29-Apr-11	30-Sep-11	21.60	\$2,836	1.25	\$0	\$5,104	\$2,268	67.80																		
13223051	Monitor Production and Delivery of PS (20 A Trims) P2 (original Labor and Expenses)	03-Oct-11	11-May-12	30.00	\$2,927	1.25	\$0	\$5,267	\$2,340	89.40																		
13223051A	Vend Fab 20 Amp Trim Power Supplies - Peg Point #1 NRE	27-Jun-11	31-Aug-11	9.40	\$0	0.00	\$50,000	\$50,000	\$0	48.20																		
13223051B	Vend Fab 20 Amp Trim Power Supplies - Peg Point #2 Approval of 1st Article Test	27-Jun-11	31-Oct-11	17.80	\$0	0.00	\$52,000	\$52,000	\$0	48.20																		
13223051C	Vend Fab 20 Amp Trim Power Supplies - Peg Point #3 First Delivery and Acceptance of ...	27-Jun-11	31-Jan-12	29.20	\$0	0.00	\$150,000	\$150,000	\$0	48.20																		
13223051D	Vend Fab 20 Amp Trim Power Supplies - Peg Point #4 Second Delivery and Acceptance...	27-Jun-11	29-Feb-12	33.20	\$0	0.00	\$150,000	\$150,000	\$0	48.20																		
13223051F	Vend Fab 20 Amp Trim Power Supplies - Peg Point #5 Third Delivery and Acceptance of...	03-Jan-12	30-Mar-12	12.40	\$0	0.00	\$120,000	\$120,000	\$0	50.00																		
13223051G	Vend Fab 20 Amp Trim Power Supplies - Peg Point #6 Fourth Delivery and Acceptance ...	03-Jan-12	30-Apr-12	16.60	\$0	0.00	\$120,000	\$120,000	\$0	50.00																		
13223051H	Vend Fab 20 Amp Trim Power Supplies - Peg Point #7 Fifth Delivery and Acceptance of ...	03-Jan-12	31-May-12	21.00	\$0	0.00	\$120,000	\$120,000	\$0	50.00																		
13223051J	Vend Fab 20 Amp Trim Power Supplies - Peg Point #8 Sixth Delivery and Acceptance of...	03-Jan-12	29-Jun-12	25.00	\$0	0.00	\$120,000	\$120,000	\$0	50.00																		
13223051K	Vend Fab 20 Amp Trim Power Supplies - Peg Point #9 Seventh Delivery and Acceptanc...	0																										









Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	
1331.1000a	Proc & Install CHL Piping & Compnts Labor FY11	01-Oct-10	04-May-11	28.80	\$320,736	137.74	\$0	\$320,736	\$0	28.80																		
1331.1000b	Proc & Install CHL Piping & Compnts Procurement	09-Dec-09	04-May-11	69.00	\$0	0.00	\$465,885	\$465,885	\$0	28.80																		
1331.1005	Install CHL Cold Box Transfer Line to Linac Labor	07-Jan-13	26-Apr-13	15.60	\$0	0.00	\$0	\$100,000	\$100,000	31.00																		
<b>1.3.3.1.11 CHL COMMISSIONING</b>		<b>03-Oct-11</b>	<b>30-Apr-12</b>	<b>28.20</b>	<b>\$238,513</b>	<b>101.52</b>	<b>\$0</b>	<b>\$238,513</b>	<b>\$0</b>	<b>30.00</b>																		
1331.11000	Cmmssn CHL Helium Plant Original	03-Oct-11	30-Apr-12	28.20	\$238,513	101.52	\$0	\$238,513	\$0	30.00																		
<b>1.3.3.1.12 LINAC TRANSFER LINE</b>		<b>05-Jan-11</b>	<b>13-Sep-11</b>	<b>35.00</b>	<b>\$79,891</b>	<b>44.00</b>	<b>\$412,717</b>	<b>\$516,622</b>	<b>\$24,015</b>	<b>10.60</b>																		
1331.12000	Fab Cold Box Transfer Line & U-Tubes	05-Jan-11	13-Sep-11	35.00	\$79,891	44.00	\$412,717	\$516,622	\$24,015	10.60																		
<b>1.3.3.2 HALL D</b>		<b>05-Jan-10</b>	<b>07-Dec-12</b>	<b>146.20</b>	<b>\$1,258,633</b>	<b>582.00</b>	<b>\$1,106,256</b>	<b>\$2,756,290</b>	<b>\$391,402</b>	<b>18.00</b>																		
<b>1.3.3.2.1 CHL-HALL D TRANSFER LINE AND HEADER</b>		<b>01-Aug-11</b>	<b>07-Dec-12</b>	<b>67.80</b>	<b>\$744,487</b>	<b>324.00</b>	<b>\$312,284</b>	<b>\$1,366,498</b>	<b>\$309,727</b>	<b>18.00</b>																		
13321015	Eng Design Cryogenic Transfer Line FY11	01-Aug-11	30-Sep-11	8.80	\$46,926	19.82	\$0	\$65,953	\$19,027	18.00																		
13321020	Eng Design Cryogenic Transfer Line FY12	03-Oct-11	13-Jan-12	13.40	\$73,735	30.18	\$0	\$103,632	\$29,897	18.00																		
13321025	Fabricate Cryogenic Transfer Line Labor FY11	12-Sep-11	30-Sep-11	3.00	\$15,781	8.41	\$0	\$17,732	\$1,951	18.00																		
13321030	Fabricate Cryogenic Transfer Line Labor FY12	03-Oct-11	14-Mar-12	21.60	\$117,234	60.59	\$0	\$131,731	\$14,497	18.00																		
13321035	Fabricate Cryogenic Transfer Line Procurement	12-Sep-11	30-Mar-12	27.00	\$0	0.00	\$109,000	\$109,000	\$0	18.00																		
13321040	Install Cryogenic Transfer Line Labor	15-Mar-12	16-May-12	9.00	\$99,843	45.00	\$0	\$127,704	\$27,861	20.80																		
13321042	Install Hall D Solenoid External Warm/Vent Piping Labor	08-Nov-12	07-Dec-12	4.00	\$103,031	45.00	\$0	\$130,892	\$27,861	18.00																		
13321045	Install Cryogenic Transfer Line Procurement	15-Mar-12	31-May-12	11.00	\$0	0.00	\$27,861	\$27,861	\$0	18.00																		
13321050	Commission Cryogenic Transfer Line	08-Jun-12	03-Jul-12	3.60	\$39,139	18.00	\$0	\$43,267	\$4,128	18.00																		
13321055	Design Solenoid Distribution Can (Header) BIA	01-Aug-11	13-Jan-12	22.20	\$0	0.00	\$0	\$0	\$0	10.00																		
13321060	Fabricate Solenoid Distribution Can (Header) Labor	16-Mar-12	13-Jul-12	16.80	\$165,725	66.00	\$0	\$350,229	\$184,504	1.60																		
13321065	Fabricate Solenoid Distribution Can (Header) Procurement	16-Mar-12	31-Jul-12	19.20	\$0	0.00	\$175,423	\$175,423	\$0	1.60																		
13321070	Install Solenoid Distribution Can (Header)	16-Jul-12	28-Sep-12	10.80	\$83,074	31.00	\$0	\$83,074	\$0	1.60																		
<b>1.3.3.2.2 HALL D COLD BOX</b>		<b>05-Jan-10</b>	<b>29-Feb-12</b>	<b>106.80</b>	<b>\$140,010</b>	<b>62.00</b>	<b>\$196,373</b>	<b>\$371,057</b>	<b>\$34,674</b>	<b>31.60</b>																		
13322000	Refurbish H-D Cold Box	05-Jan-10	09-Feb-10	5.00	\$14,980	9.00	\$43,039	\$65,008	\$6,988	89.60																		
13322005	Relocation of Helium Refrigerator Labor (Frozen by CR11-036)	02-Jun-11	29-Jul-11	8.20	\$110,398	48.29	\$0	\$134,843	\$24,445	8.80																		
13322006	Reverse entry per CR11-036	01-Aug-11	05-Aug-11	1.00	(\$110,398)	-48.29	\$0	(\$134,843)	(\$24,445)	7.80																		
13322007	Relocation of Helium Refrigerator Labor (Revised by CR11-036)	03-Oct-11	01-Feb-12	15.80	\$125,030	53.00	\$0	\$152,716	\$27,685	31.60																		
13322010	Relocation of Helium Refrigerator Procurement	03-Oct-11	29-Feb-12	19.60	\$0	0.00	\$153,334	\$153,334	\$0	31.60																		
<b>1.3.3.2.3 HALL DISTRIBUTION SYSTEM</b>		<b>01-Mar-11</b>	<b>29-Feb-12</b>	<b>49.80</b>	<b>\$106,117</b>	<b>56.00</b>	<b>\$352,743</b>	<b>\$463,780</b>	<b>\$4,919</b>	<b>41.80</b>																		
13323000	Proc H-D Refrigerator Equip & Piping Proc	01-Mar-11	29-Feb-12	49.80	\$0	0.00	\$300,049	\$300,049	\$0	41.80																		
13323005	Proc & Install H-D Refrigerator Equip & Piping (Original labor Frozen per CR 11-036)	01-Mar-11	29-Jul-11	21.40	\$85,164	46.09	\$0	\$89,112	\$3,948	37.60																		
13323010	Reverse Entry per CR 11-036	01-Aug-11	05-Aug-11	1.00	(\$85,164)	-46.09	\$0	(\$89,112)	(\$3,948)	7.80																		
13323015	Install H-D Refrigerator Equip & Piping Labor (Revised per CR 11-036) FY11	01-Sep-11	30-Sep-11	4.20	\$20,307	10.99	\$0	\$21,248	\$941	28.40																		
13323015a	Install H-D Refrigerator Equip & Piping Labor (Revised per CR 11-036) FY12	03-Oct-11	10-Feb-12	17.20	\$85,810	45.01	\$0	\$89,788	\$3,978	28.40																		
13323020	Install H-D Refrigerator Equip & Piping Procurement (Revised per CR 11-036)	01-Sep-11	29-Feb-12	23.80	\$0	0.00	\$52,694	\$52,694	\$0	28.40																		
<b>1.3.3.2.4 INSTRUMENTATION &amp; CONTROLS</b>		<b>17-May-11</b>	<b>30-Mar-12</b>	<b>43.20</b>	<b>\$38,276</b>	<b>20.00</b>	<b>\$137,074</b>	<b>\$180,274</b>	<b>\$4,923</b>	<b>28.40</b>																		
13324000	Install H-D Refrigerator Instrumentn & Controls Procurement	17-May-11	30-Mar-12	43.20	\$0	0.00	\$137,074	\$137,074	\$0	28.40																		
13324005	Install H-D Refrigerator Instrumentn & Controls Original Labor Frozen per CR 11-036	17-May-11	29-Jul-11	10.40	\$20,411	10.95	\$0	\$23,036	\$2,625	61.20																		
13324010	Reverse Entry Per CR 11-036	01-Aug-11	05-Aug-11	1.00	(\$20,411)	-10.95	\$0	(\$23,036)	(\$2,625)	7.80																		
13324015	Install H-D Refrigerator Instrumentn & Controls FY11	01-Sep-11	30-Sep-11	4.20	\$6,265	3.36	\$0	\$7,070	\$806	31.60																		
13324015a	Install H-D Refrigerator Instrumentn & Controls FY12	03-Oct-11	08-Mar-12	20.80	\$32,012	16.64	\$0	\$36,129	\$4,118	31.60																		
<b>1.3.3.2.5 U-TUBES</b>		<b>07-Jul-11</b>	<b>10-Feb-12</b>	<b>29.40</b>	<b>\$26,664</b>	<b>15.00</b>	<b>\$26,021</b>	<b>\$55,165</b>	<b>\$2,480</b>	<b>28.40</b>																		
13325000	Fab Cryogenic U-Tubes (Frozen Per CR 11-036)	07-Jul-11	29-Jul-11	3.40	\$10,983	6.38	\$0	\$12,004	\$1,022	33.00																		
13325005	Reverse Entry Per CR 11-036	01-Aug-11	05-Aug-11	1.00	(\$10,983)	-6.38	\$0	(\$12,004)	(\$1,022)	7.80																		
13325010	Fab Cryogenic U-Tubes Labor (Revised Per CR 11-036)	08-Dec-11	10-Feb-12	8.00	\$26,664	15.00	\$0	\$29,144	\$2,480	28.40																		
13325015	Fab Cryogenic U-Tubes Procurement (Revised Per CR 11-036)	08-Dec-11	10-Feb-12	8.00	\$0	0.00	\$26,021	\$26,021	\$0	28.40																		
<b>1.3.3.2.6 FIELD INSTALLATION</b>		<b>22-Mar-11</b>	<b>30-Mar-12</b>	<b>51.20</b>	<b>\$168,657</b>	<b>91.00</b>	<b>\$40,880</b>	<b>\$238,026</b>	<b>\$28,490</b>	<b>31.60</b>																		
13326000	Install Field Compnts (Frozen Per CR 11-036)	22-Mar-11	29-Jul-11	18.40	\$125,317	69.77	\$0	\$146,484	\$21,167	28.40																		
13326005	Reverse Entry Per CR 11-036	01-Aug-11	05-Aug-11	1.00	(\$125,317)	-69.77	\$0	(\$146,484)	(\$21,167)	7.80																		
13326010	Install Field Compnts Labor (Revised Per CR 11-036)	03-Oct-11	08-Mar-12	20.80	\$168,657	91.00	\$0	\$197,146	\$28,490	31.60																		
13326015	Install Field Compnts Procurement (Revised Per CR 11-036)	03-Oct-11	30-Mar-12	24.00	\$0	0.00	\$40,880	\$40,880	\$0	31.60																		
<b>1.3.3.2.7 COMMISSIONING</b>		<b>02-Apr-12</b>	<b>02-May-12</b>	<b>4.60</b> </																								











Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
13417135	TR - Upstairs	19-Feb-13	16-Apr-13	8.20	\$56,586	27.90	\$0	\$84,467	\$27,881	9.20																	
13417140	TR - Install magnets and girders	24-Apr-13	28-Jun-13	9.40	\$95,333	47.00	\$0	\$95,333	\$0	9.20																	
13417145	TR - Final align	01-Jul-13	05-Jul-13	0.80	\$6,323	3.10	\$0	\$6,323	\$0	9.20																	
13417150	Alignment complete	07-Aug-13	09-Aug-13	0.60	\$3,620	1.80	\$0	\$3,620	\$0	4.80																	
13417155	LCW Hoses FY12	02-Apr-12	28-Sep-12	25.40	\$0	0.00	\$85,000	\$85,000	\$0	11.60																	
13417160	LCW Hoses FY13	01-Oct-12	29-Mar-13	24.00	\$0	0.00	\$160,000	\$160,000	\$0	11.60																	
13417165	Material handling/tooling/transportation FY12	02-Apr-12	28-Sep-12	25.40	\$0	0.00	\$50,000	\$50,000	\$0	1.80																	
13417170	Material handling/tooling/transportation FY13	01-Oct-12	30-Aug-13	45.60	\$0	0.00	\$36,117	\$36,117	\$0	1.80																	
<b>1.3.4.2 EXISTING ARCS (1-9, A, B, &amp; C)</b>		02-Jan-09	13-Sep-13	233.80	\$2,752,200	1378.18	\$2,575,517	\$5,473,109	\$145,393	68.40																	
<b>1.3.4.2.1 DIPOLES</b>		02-Jan-09	28-Sep-12	186.40	\$180,970	54.83	\$1,799,572	\$2,070,460	\$89,918	110.80																	
13421025	Prcmnt Prep for New Hall A&C Dipoles	12-Jan-09	26-Jun-09	23.40	\$4,561	2.10	\$0	\$4,561	\$0	64.20																	
13421030	Vendor Fab New Hall A&C Dipoles Original Labor FY10	29-Jun-09	30-Sep-10	62.80	\$14,459	6.10	\$0	\$14,459	\$0	64.20																	
13421030a	Vendor Fab New Hall A&C Dipoles Original Labor FY11	01-Oct-10	28-Jan-11	15.40	\$3,683	1.50	\$0	\$3,683	\$0	64.20																	
13421046	Fabrication of Existing Arc Dipole Rebuild Parts	12-Jan-09	29-May-09	19.40	\$8,427	4.13	\$0	\$8,427	\$0	17.91																	
13421046a	Fabrication of Existing Arc Dipole Rebuild Parts (Labor) FY10	03-May-10	30-Sep-10	21.00	\$5,587	2.65	\$0	\$5,587	\$0	17.91																	
13421046ab	Fabrication of Existing Arc Dipole Rebuild Parts (Labor) FY11	30-Sep-10	05-Jan-11	12.20	\$3,301	1.52	\$0	\$3,301	\$0	17.91																	
13421046b	Fabrication of Existing Arc Dipole Rebuild Parts (proc)	03-May-10	05-Jan-11	33.20	\$0	0.00	\$374,816	\$374,816	\$0	17.91																	
13421050M	Delivery Complete for Magnet Steel & Conductor (EXIST ARC DIPOLES)		29-Jun-09	0.00	\$0	0.00	\$0	\$0	\$0	272.60																	
13421055	Prcmnt Prep for H Steel (EXIST ARC Dipoles)	05-Oct-09	19-Mar-10	22.00	\$3,539	1.50	\$0	\$3,539	\$0	33.80																	
13421060M	Award Contract for H Steel (EXIST ARC DIPOLES)	22-Mar-10		0.00	\$0	0.00	\$0	\$0	\$0	33.80																	
13421065	P-1 Vend Fab H Steel (EXIST ARC Dipoles) Labor FY10	22-Mar-10	30-Sep-10	27.20	\$2,437	1.10	\$0	\$2,437	\$0	33.80																	
13421065a	P-1 Vend Fab H Steel (EXIST ARC Dipoles) Labor FY11	01-Oct-10	21-Mar-11	22.40	\$2,070	0.90	\$0	\$2,070	\$0	33.80																	
13421065b	P-1 Vend Fab H Steel (EXIST ARC Dipoles) Procurement	22-Mar-10	21-Mar-11	49.60	\$0	0.00	\$380,788	\$380,788	\$0	33.80																	
13421066	P-2 Vend Fab H Steel (EXIST ARC Dipoles)	04-Jan-11	02-Sep-11	34.00	\$2,293	1.00	\$731,791	\$734,083	\$0	33.80																	
13421067M	Delivery of First Article H Steel		22-Feb-11	0.00	\$0	0.00	\$0	\$0	\$0	61.00																	
13421070M	Delivery Complete for H Steel for S/R Dipoles (EXIST ARC DIPOLES)		02-Sep-11	0.00	\$0	0.00	\$0	\$0	\$0	33.80																	
13421085	Vendor Fab and Delivery of Magnet Refurbishment Crane	13-Sep-10	19-Nov-10	10.00	\$0	0.00	\$80,000	\$80,000	\$0	10.80																	
13421090	Installation of Magnetic Refurbishment Crane	22-Nov-10	25-Feb-11	12.00	\$5,168	3.00	\$51,595	\$56,763	\$0	10.80																	
13421095	Vend Fab Survey Instrument	01-Oct-10	29-Nov-10	8.00	\$2,718	1.00	\$180,583	\$183,301	\$0	22.00																	
13421909LOE	FY09 Mngmnt & Oversight (EXIST ARC Dipoles)	02-Jan-09	30-Sep-09	37.80	\$21,945	5.33	\$0	\$39,530	\$17,585	0.00																	
13421910LOE	FY10 Mngmnt & Oversight (EXIST ARC Dipoles)	01-Oct-09	30-Sep-10	49.60	\$33,958	8.00	\$0	\$57,769	\$23,811	0.00																	
13421911LOE	FY11 Mngmnt & Oversight (EXIST ARC Dipoles)	01-Oct-10	30-Sep-11	49.60	\$30,663	7.00	\$0	\$54,065	\$23,402	0.00																	
13421912LOE	FY12 Mngmnt & Oversight (EXIST ARC Dipoles)	03-Oct-11	28-Sep-12	49.40	\$36,160	8.00	\$0	\$61,280	\$25,120	0.00																	
<b>1.3.4.2.2 QUADRUPOLES</b>		02-Jan-09	31-Jul-12	178.00	\$223,315	98.25	\$535,615	\$758,930	\$0	124.20																	
13422035	Prcmnt Prep for Quads (EXIST ARC Q-POLES)	02-Jan-09	18-Feb-09	6.40	\$3,926	1.76	\$0	\$3,926	\$0	295.80																	
13422040M	Award Contract for Quadrupoles (EXIST ARC Q-POLES)	03-Aug-09		0.00	\$0	0.00	\$0	\$0	\$0	272.80																	
13422045	Vend Fab Quads (EXIST ARC Q-POLES) LABOR Initial	19-Feb-09	31-Jul-09	23.00	\$5,399	2.55	\$0	\$5,399	\$0	115.20																	
13422046	Vend Fab Quads (EXIST ARC Q-POLES) LABOR Final FY09	03-Aug-09	30-Sep-09	8.40	\$2,200	1.00	\$0	\$2,200	\$0	115.20																	
13422046b	Vend Fab Quads (EXIST ARC Q-POLES) LABOR Final FY10	01-Oct-09	30-Sep-10	49.60	\$13,404	5.91	\$0	\$13,404	\$0	115.20																	
13422046ba	Vend Fab Quads (EXIST ARC Q-POLES) LABOR Final FY11	01-Oct-10	26-Oct-10	3.60	\$1,004	0.43	\$0	\$1,004	\$0	115.20																	
13422047	Vend Fab Quads (EXIST ARC Q-POLES) Recieve Materials	03-Aug-09	05-Oct-09	9.00	\$0	0.00	\$84,150	\$84,150	\$0	167.80																	
13422047A	Vend Fab Quads (EXIST ARC Q-POLES) Lamination Stampings	03-Aug-09	03-Aug-09	0.20	\$0	0.00	\$19,125	\$19,125	\$0	176.60																	
13422047B	Vend Fab Quads (EXIST ARC Q-POLES) First Article QR	03-Aug-09	28-Oct-09	12.40	\$0	0.00	\$19,900	\$19,900	\$0	164.40																	
13422047C	Vend Fab Quads (EXIST ARC Q-POLES) Deliver 5 QR Magnets	03-Aug-09	29-Jan-10	24.00	\$0	0.00	\$38,500	\$38,500	\$0	152.80																	
13422047D	Vend Fab Quads (EXIST ARC Q-POLES) Deliver 5 QR Magnets	03-Aug-09	26-Feb-10	27.80	\$0	0.00	\$38,500	\$38,500	\$0	149.00																	
13422047F	Vend Fab Quads (EXIST ARC Q-POLES) Deliver 5 QR Magnets	03-Aug-09	29-Mar-10	32.00	\$0	0.00	\$38,500	\$38,500	\$0	144.80																	
13422047G	Vend Fab Quads (EXIST ARC Q-POLES) Deliver 5 QR Magnets	03-Aug-09	30-Apr-10	36.80	\$0	0.00	\$38,500	\$38,500	\$0	140.00																	
13422047H	Vend Fab Quads (EXIST ARC Q-POLES) Deliver 5 QR Magnets	03-Aug-09	28-May-10	40.80	\$0	0.00	\$38,500	\$38,500	\$0	136.00																	
13422047J	Vend Fab Quads (EXIST ARC Q-POLES) Deliver 5 QR Magnets	03-Aug-09	23-Jun-10	44.20	\$0	0.00	\$38,500	\$38,500	\$0	132.60																	
13422047K	Vend Fab Quads (EXIST ARC Q-POLES) Deliver 4 QR Magnets	03-Aug-09	26-Jul-10	48.60	\$0	0.00	\$30,800	\$30,800	\$0	128.20																	
13422047L	Vend Fab Quads (EXIST ARC Q-POLES) Deliver 2 QR Magnets	03-Aug-09	26-Oct-10	61.60	\$0	0.00	\$20,600	\$20,600	\$0	115.20																	
13422050M	Delivery Complete for Quadrupoles(EXIST ARC Q-POLES)		26-Oct-10	0.00	\$0	0.00	\$0	\$0	\$0	115.20																	
13422055	Mag Measurement of New Quads (EXIST ARC Q-POLES) FY10	05-May-10	30-Sep-10	20.80	\$8,761	4.32	\$0	\$8,761	\$0	115.20																	
13422055a	Mag Measurement of New Quads (EXIST ARC Q-POLES) FY11	01-Oct-10	25-Feb-11	19.20	\$8,344	3.98	\$0	\$8,344	\$0	115.20																	
13422060	Add Klinoxons to 20 Amp Quads (EXIST ARC Q-POLES)</																										

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
13422102	Prmmt Prep for QY Quads FY10b	01-Jul-10	30-Sep-10	12.80	\$50,175	22.06	\$0	\$50,175	\$0	105.60																	
13422102a	Prmmt Prep for QY Quads FY11	01-Oct-10	20-Oct-10	2.80	\$11,326	4.83	\$0	\$11,326	\$0	105.60																	
13422105M	Award Contract for QY Quadrupoles	21-Oct-10		0.00	\$0	0.00	\$0	\$0	\$0	105.60																	
13422110	Vend Fab QY Quads Labor Support FY11	21-Oct-10	30-Jun-11	34.00	\$25,478	10.00	\$0	\$25,478	\$0	105.60																	
13422112	Vend Fab QY Quads Labor Support FY12	01-Jul-11	29-Jul-11	4.00	\$6,533	2.56	\$0	\$6,533	\$0	105.60																	
13422115	Vend Fab QY Quads 1st Article	21-Oct-10	31-Mar-11	21.20	\$0	0.00	\$41,276	\$41,276	\$0	105.60																	
13422117	Vend Fab QR Quads Labor Support	14-Nov-11	31-May-12	26.60	\$19,551	7.44	\$0	\$19,551	\$0	64.20																	
13422120	Vend Fab Additional QR Quads	14-Nov-11	31-May-12	26.60	\$0	0.00	\$62,243	\$62,243	\$0	63.20																	
13422122	Receive and Inspect QY Quads	31-Jan-11	29-Jul-11	25.40	\$10,986	4.96	\$0	\$10,986	\$0	105.60																	
13422122a	Receive and Inspect QR Quads	01-Jun-12	08-Jun-12	1.00	\$6,963	3.04	\$0	\$6,963	\$0	63.20																	
13422123	Magnetic Measurement QY Quads	02-Mar-11	29-Jul-11	21.20	\$6,528	3.46	\$0	\$6,528	\$0	105.60																	
13422123a	Magnetic Measurement QR Quads FY11	09-Sep-11	30-Sep-11	3.20	\$417	0.22	\$0	\$417	\$0	63.20																	
13422123b	Magnetic Measurement QR Quads FY12	03-Oct-11	08-Jun-12	33.60	\$4,526	2.32	\$0	\$4,526	\$0	63.20																	
13422125M	Delivery Complete for QR Quadrupoles		08-Jun-12	0.00	\$0	0.00	\$0	\$0	\$0	63.20																	
13432004	Procurement Prep for Linac Correctors FY09	02-Jul-09	30-Sep-09	12.60	\$2,338	1.09	\$0	\$2,338	\$0	60.40																	
13432004b	Procurement Prep for Linac Correctors FY10	01-Oct-09	16-Dec-09	10.60	\$2,031	0.91	\$0	\$2,031	\$0	60.40																	
<b>1.3.4.2.4 STANDS</b>		<b>05-Jan-09</b>	<b>30-Apr-12</b>	<b>165.00</b>	<b>\$28,265</b>	<b>12.56</b>	<b>\$28,790</b>	<b>\$57,055</b>	<b>\$0</b>	<b>1.80</b>																	
13425020	Proc Girder Matr (EXIST ARC Girders)	05-Jan-09	29-May-09	20.40	\$2,928	1.36	\$0	\$2,928	\$0	118.40																	
13425025	Proc Prep of Girders/Stands for QY Quads (EXIST ARC Girders)	11-Mar-11	30-Jun-11	15.80	\$25,337	11.20	\$0	\$25,337	\$0	30.60																	
13425030	Vend Fab Girders/Stands for QY Quads (EXIST ARC Girders)	03-Feb-12	30-Apr-12	12.20	\$0	0.00	\$28,790	\$28,790	\$0	1.80																	
<b>1.3.4.2.7 INSTALLATION</b>		<b>02-Jul-10</b>	<b>13-Sep-13</b>	<b>159.00</b>	<b>\$2,319,650</b>	<b>1212.54</b>	<b>\$211,540</b>	<b>\$2,586,665</b>	<b>\$55,475</b>	<b>11.60</b>																	
13427015LOE	Installation Team Engineering Support FY12 (12 Month Down)	01-May-12	28-Sep-12	21.20	\$107,901	56.00	\$0	\$107,901	\$0	0.00																	
13427016LOE	Installation Team Engineering Support FY13 (12 Month Down)	01-Oct-12	13-Sep-13	47.40	\$89,478	45.00	\$0	\$89,478	\$0	0.00																	
13427020	Arcs 1 & 3 - Remove	02-Aug-12	13-Aug-12	1.60	\$37,335	16.90	\$0	\$37,335	\$0	28.80																	
13427021	Rework of arcs 5, 7, and 9 Part A FY12	14-Aug-12	28-Sep-12	6.60	\$36,187	20.36	\$0	\$36,187	\$0	38.60																	
13427021a	Rework of arcs 5, 7, and 9 Part A FY13	01-Oct-12	03-Dec-12	8.80	\$49,791	27.14	\$0	\$49,791	\$0	38.60																	
13427022	Rework of arcs 5, 7, and 9 Part B FY12	01-Jun-12	28-Sep-12	16.80	\$73,882	41.56	\$0	\$73,882	\$0	45.00																	
13427022a	Rework of arcs 5, 7, and 9 Part B FY13	01-Oct-12	16-Oct-12	2.40	\$10,892	5.94	\$0	\$10,892	\$0	45.00																	
13427023	Rework of arcs 5, 7, and 9 Part C FY12	14-Jun-12	28-Sep-12	15.20	\$46,166	25.97	\$0	\$46,166	\$0	34.80																	
13427023a	Rework of arcs 5, 7, and 9 Part C FY13	01-Oct-12	07-Jan-13	12.60	\$39,492	21.53	\$0	\$39,492	\$0	34.80																	
13427024	Rework of arcs 5, 7, and 9 Part D FY12	27-Jun-12	28-Sep-12	13.40	\$37,465	21.08	\$0	\$37,465	\$0	30.60																	
13427024a	Rework of arcs 5, 7, and 9 Part D FY13	01-Oct-12	06-Feb-13	16.80	\$48,472	26.42	\$0	\$48,472	\$0	30.60																	
13427025	Arcs 1 & 3 - Refurb and measure FY12	07-Aug-12	28-Sep-12	7.60	\$51,217	24.62	\$0	\$51,217	\$0	28.80																	
13427025a	Arcs 1 & 3 - Refurb and measure FY13	01-Oct-12	02-Jan-13	12.00	\$83,453	38.88	\$0	\$83,453	\$0	28.80																	
13427027	Arcs 1 & 3 - Install FY12	07-Aug-12	28-Sep-12	7.60	\$50,548	24.42	\$0	\$50,548	\$0	28.80																	
13427027a	Arcs 1 & 3 - Install FY13	01-Oct-12	18-Jan-13	14.40	\$98,835	46.28	\$0	\$98,835	\$0	28.80																	
13427028	West Arc LCW Work	03-Jan-13	14-Feb-13	6.00	\$19,995	10.90	\$0	\$19,995	\$0	25.80																	
13427030	Arcs - Final align west end	15-Feb-13	12-Mar-13	3.40	\$86,047	42.40	\$0	\$86,047	\$0	25.80																	
13427032	Arcs - Final align east end	22-Jan-13	14-Feb-13	3.60	\$44,597	22.00	\$0	\$44,597	\$0	28.80																	
13427035	Hall A - Remove	11-Oct-12	19-Oct-12	1.40	\$8,919	4.40	\$0	\$8,919	\$0	35.20																	
13427037	Hall A - Upstairs	22-Oct-12	20-Nov-12	4.40	\$26,391	13.00	\$0	\$26,391	\$0	35.20																	
13427040	Hall A - Install	12-Nov-12	28-Mar-13	17.80	\$30,195	14.90	\$0	\$30,195	\$0	35.20																	
13427042	Hall B - Remove	16-Oct-12	02-Nov-12	2.80	\$29,828	14.70	\$0	\$29,828	\$0	36.40																	
13427045	Hall B - Upstairs	05-Nov-12	15-Jan-13	8.80	\$48,690	24.00	\$0	\$48,690	\$0	36.60																	
13427047	Hall B - Install	05-Nov-12	20-Mar-13	17.60	\$82,977	40.90	\$0	\$82,977	\$0	36.40																	
13427050	Hall C - Remove	23-Oct-12	09-Nov-12	2.80	\$8,919	4.40	\$0	\$8,919	\$0	41.40																	
13427052	Hall C - Upstairs	12-Nov-12	19-Dec-12	5.20	\$29,171	14.40	\$0	\$29,171	\$0	43.60																	
13427055	Procure new material handling equipment	05-Nov-10	18-Apr-11	21.40	\$3,446	2.00	\$134,147	\$137,593	\$0	3.60																	
13427057	Hall C - Install	11-Dec-12	28-Jan-13	5.60	\$32,897	16.20	\$0	\$32,897	\$0	43.60																	
13427060	Procure Temporary Space for expanded technician work force	04-Mar-11	31-Aug-11	25.40	\$0	0.00	\$77,393	\$77,393	\$0	10.20																	
13427061	NE matching final alignment	05-Aug-13	06-Aug-13	0.40	\$8,919	4.40	\$0	\$8,919	\$0	4.80																	
13427062	SW matching final alignment	27-Jun-13	02-Jul-13	0.80	\$8,919	4.40	\$0	\$8,919	\$0	4.80																	
13427062LOE	Engineering Support 6 Month Down	13-May-11	06-Sep-11	16.00	\$97,848	36.00	\$0	\$97,848	\$0	9.60																	
13427063LOE	Tech Training	04-Mar-11	28-Apr-11	8.00	\$238,282	136.00	\$0	\$238,282	\$0	2.00																	
13427065	AS-FOUND SURVEY (B/L UNDER VACUUM) SOUTH SIDE WEST ARC	20-May-11	01-Jun-11	1.60	\$9,510	5.52	\$0	\$9,510	\$0	9.20																	



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023	
13427080	BLEED UP VACUUM NORTH SIDE OF W/ARC	14-Jun-11	14-Jun-11	0.20	\$861	0.50	\$0	\$861	\$0	11.40																		
13427085	PUMP OUT SOUTH SIDE WEST ARC	21-Jul-11	25-Jul-11	0.60	\$3,170	1.84	\$0	\$3,170	\$0	13.20																		
13427090	QA CHECKS - SOUTH SIDE WEST ARC	25-Jul-11	28-Jul-11	0.80	\$8,302	4.83	\$0	\$8,302	\$0	13.20																		
13427095	2B FINAL STACK ALIGNMENT (B/L UNDER VACUUM) - SOUTH SIDE WEST ARC	29-Jul-11	10-Aug-11	1.80	\$9,510	5.52	\$0	\$9,510	\$0	13.20																		
13427100	PUMP OUT NORTH SIDE WEST ARC	23-Aug-11	25-Aug-11	0.60	\$3,170	1.84	\$0	\$3,170	\$0	9.20																		
13427105	QA CHECKS - NORTH SIDE WEST ARC	25-Aug-11	30-Aug-11	0.80	\$8,302	4.83	\$0	\$8,302	\$0	9.20																		
13427110	2B FINAL STACK ALIGNMENT (B/L UNDER VACUUM) - NORTH SIDE WEST ARC	30-Aug-11	08-Sep-11	1.40	\$9,510	5.52	\$0	\$9,510	\$0	9.20																		
13427115M	WEST ARC FINISHED		08-Sep-11	0.00	\$0	0.00	\$0	\$0	\$0	9.20																		
13427120	REMOVE MAGNETS - QUAD 1	03-Jun-11	09-Jun-11	1.00	\$19,009	11.04	\$0	\$19,009	\$0	9.20																		
13427125	REFURB, UPGRADE AND TEST MAGNETS - QUAD 1	08-Jun-11	22-Jun-11	2.20	\$66,569	38.64	\$0	\$80,438	\$13,869	9.20																		
13427130	INSTALL MAGNETS AND ARC 10 - QUAD 1	15-Jun-11	12-Jul-11	3.80	\$38,414	22.31	\$0	\$38,414	\$0	14.40																		
13427135	REMOVE MAGNETS - QUAD 2	08-Jun-11	13-Jun-11	0.80	\$19,009	11.04	\$0	\$19,009	\$0	10.40																		
13427140	REFURB, UPGRADE AND TEST MAGNETS - QUAD 2	22-Jun-11	06-Jul-11	2.00	\$66,569	38.64	\$0	\$80,438	\$13,869	9.20																		
13427145	INSTALL MAGNETS AND ARC 10 - QUAD 2	28-Jun-11	20-Jul-11	3.20	\$42,772	24.84	\$0	\$42,772	\$0	13.20																		
13427150	REMOVE MAGNETS - QUAD 3	15-Jun-11	20-Jun-11	0.80	\$19,009	11.04	\$0	\$19,009	\$0	11.40																		
13427155	REFURB, UPGRADE AND TEST MAGNETS - QUAD 3	07-Jul-11	20-Jul-11	2.00	\$66,569	38.64	\$0	\$80,438	\$13,869	9.20																		
13427160	INSTALL MAGNETS AND ARC 10 - QUAD 3	12-Jul-11	16-Aug-11	5.20	\$42,772	24.84	\$0	\$42,772	\$0	10.00																		
13427165	REMOVE MAGNETS - QUAD 4	20-Jun-11	27-Jun-11	1.20	\$19,009	11.04	\$0	\$19,009	\$0	12.20																		
13427170	REFURB, UPGRADE AND TEST MAGNETS - QUAD 4	20-Jul-11	02-Aug-11	2.00	\$66,569	38.64	\$0	\$80,438	\$13,869	9.20																		
13427175	INSTALL MAGNETS AND ARC 10 - QUAD 4	25-Jul-11	22-Aug-11	4.20	\$38,414	22.31	\$0	\$38,414	\$0	9.20																		
13427180	Accelerator Down Planning FY10	02-Jul-10	30-Sep-10	12.60	\$24,975	10.80	\$0	\$24,975	\$0	0.60																		
13427180a	Accelerator Down Planning FY11	01-Oct-10	09-May-11	29.40	\$60,134	25.20	\$0	\$60,134	\$0	0.60																		
<b>1.3.4.3 LINACS</b>		<b>17-Dec-09</b>	<b>26-Jul-13</b>	<b>178.60</b>	<b>\$168,289</b>	<b>82.00</b>	<b>\$150,365</b>	<b>\$318,653</b>	<b>\$0</b>	<b>4.80</b>																		
<b>1.3.4.3.2 CORRECTORS</b>		<b>17-Dec-09</b>	<b>26-May-11</b>	<b>71.00</b>	<b>\$12,087</b>	<b>6.30</b>	<b>\$20,595</b>	<b>\$32,682</b>	<b>\$0</b>	<b>47.60</b>																		
13432005	Vend Fab H & V Linac Correctors (Linac Correctors) Labor FY10	17-Dec-09	30-Sep-10	39.00	\$3,319	1.49	\$0	\$3,319	\$0	60.40																		
13432005a	Vend Fab H & V Linac Correctors (Linac Correctors) Labor FY11	01-Oct-10	12-Jan-11	13.20	\$1,160	0.51	\$0	\$1,160	\$0	60.40																		
13432005b	Vend Fab H & V Linac Correctors (Linac Correctors) Procurement	17-Dec-09	12-Jan-11	52.20	\$0	0.00	\$20,595	\$20,595	\$0	60.40																		
13432015	Mag Measurement of Linac Correctors & Skew Quads (Linac Correctors)	15-Apr-11	26-May-11	6.00	\$7,607	4.30	\$0	\$7,607	\$0	47.60																		
<b>1.3.4.3.3 STANDS</b>		<b>16-Aug-10</b>	<b>25-Feb-11</b>	<b>25.80</b>	<b>\$17,449</b>	<b>7.70</b>	<b>\$107,834</b>	<b>\$125,282</b>	<b>\$0</b>	<b>10.80</b>																		
13433005	Proc Prep Linac Stands (Linac Stands)	01-Oct-10	02-Dec-10	8.60	\$6,370	2.50	\$0	\$6,370	\$0	11.00																		
13433010	Vend Fab Linac Stands (Linac Stands)	03-Dec-10	24-Feb-11	10.40	\$0	0.00	\$14,963	\$14,963	\$0	11.00																		
13433015	Receive and Inspect Linac Stands (Linac Stands)	11-Feb-11	24-Feb-11	1.80	\$1,723	1.00	\$0	\$1,723	\$0	11.00																		
13434005	Proc Prep Linac Girders (Linac Girders) FY10	16-Aug-10	30-Sep-10	6.60	\$4,971	2.24	\$0	\$4,971	\$0	10.80																		
13434005a	Proc Prep Linac Girders (Linac Girders) FY11	01-Oct-10	05-Nov-10	5.20	\$4,041	1.76	\$0	\$4,041	\$0	10.80																		
13434006	Vend Fab Linac Girders (Linac Girders)	08-Nov-10	25-Feb-11	14.00	\$0	0.00	\$92,871	\$92,871	\$0	10.80																		
13434007	Receive and Inspect Linac Girders (Linac Girders)	14-Feb-11	25-Feb-11	1.80	\$345	0.20	\$0	\$345	\$0	10.80																		
<b>1.3.4.3.5 VACUUM</b>		<b>17-Sep-10</b>	<b>31-May-11</b>	<b>34.40</b>	<b>\$10,658</b>	<b>6.00</b>	<b>\$21,936</b>	<b>\$32,593</b>	<b>\$0</b>	<b>47.20</b>																		
13435010	Proc New DI Ion Pumps (Linac Vac)	17-Sep-10	16-Feb-11	20.00	\$0	0.00	\$21,316	\$21,316	\$0	61.60																		
13435015	Rebuild 3 South Linac Girders (Linac Vac)	23-May-11	31-May-11	1.20	\$10,658	6.00	\$619	\$11,277	\$0	12.00																		
<b>1.3.4.3.6 INSTALLATION</b>		<b>13-May-11</b>	<b>26-Jul-13</b>	<b>109.60</b>	<b>\$128,096</b>	<b>62.00</b>	<b>\$0</b>	<b>\$128,096</b>	<b>\$0</b>	<b>4.80</b>																		
13436020	Remove Warm Girder SL22	13-May-11	20-May-11	1.20	\$3,446	2.00	\$0	\$3,446	\$0	12.00																		
13436025	Reinstall Warm Girder SL22	01-Jun-11	08-Jun-11	1.20	\$5,168	3.00	\$0	\$5,168	\$0	12.00																		
13436030	Remove Warm Girder SL23	09-Jun-11	16-Jun-11	1.20	\$3,446	2.00	\$0	\$3,446	\$0	12.00																		
13436035	Reinstall Warm Girder SL23	28-Jul-11	04-Aug-11	1.20	\$5,168	3.00	\$0	\$5,168	\$0	7.40																		
13436040	SL - remove girders	21-May-12	05-Jun-12	2.00	\$16,797	7.60	\$0	\$16,797	\$0	1.60																		
13436045	NL - remove girders	06-Jun-12	02-Jul-12	3.80	\$29,572	13.40	\$0	\$29,572	\$0	23.80																		
13436050	SL - rebuild girders	22-May-12	22-May-12	0.20	\$1,552	0.70	\$0	\$1,552	\$0	1.60																		
13436055	NL - rebuild girders	03-Jul-12	24-Jul-12	3.20	\$18,349	8.30	\$0	\$18,349	\$0	23.80																		
13436060	SL final alignment	11-Apr-13	23-Apr-13	1.80	\$22,298	11.00	\$0	\$22,298	\$0	11.60																		
13436065	NL final alignment	16-Jul-13	26-Jul-13	1.80	\$22,298	11.00	\$0	\$22,298	\$0	4.80																		
<b>1.3.4.4 INJECTOR &amp; RE-INJECTION</b>		<b>02-Jan-09</b>	<b>01-Aug-13</b>	<b>227.80</b>	<b>\$223,378</b>	<b>100.36</b>	<b>\$100,894</b>	<b>\$324,273</b>	<b>\$0</b>	<b>6.00</b>																		
<b>1.3.4.4.1 DIPOLES</b>		<b>02-Jul-09</b>	<b>12-May-11</b>	<b>92.20</b>	<b>\$22,424</b>	<b>9.20</b>	<b>\$38,890</b>	<b>\$61,314</b>	<b>\$0</b>	<b>49.60</b>																		
13441004	Proc Prep for Chicane Dipoles (INJ/REINJ Dipoles) FY09	02-Jul-09	30-Sep-09	12.60	\$3,040	1.41	\$0	\$3,040	\$0	6																		

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	UZ3	
<b>1.3.4.4.4 STANDS</b>											24-Apr-12, 1.3.4.4.4 STANDS																	
13444015	Proc Prep New ReInjection Stands (INJ/RE-INJ Stands)	02-Jan-09	24-Apr-12	164.40	\$41,675	16.56	\$56,148	\$97,823	\$0	11.40																		
13444017	Vend Fab New ReInjection Stands (INJ/RE-INJ Stands)	13-Jan-12	24-Apr-12	14.20	\$0	0.00	\$6,389	\$6,389	\$0	11.40																		
13444018	Receive and Inspect New ReInjection Stands (INJ/RE-INJ Stands)	11-Apr-12	24-Apr-12	2.00	\$711	0.40	\$0	\$711	\$0	11.40																		
13444020	Proc Alignment Cartridges (INJ/RE-INJ Stands)	07-Dec-10	05-May-11	20.00	\$373	0.20	\$1,020	\$1,394	\$0	50.60																		
13444025	Procure/Vend Fab Modifications for Spectrometer (INJ/RE-INJ Stands)	07-Dec-10	17-Jun-11	26.00	\$14,628	7.00	\$34,015	\$48,643	\$0	44.60																		
13444909LOE	FY09 Mngmnt/Planning for ReInjection Modifications (INJ/RE-INJ Stands)	02-Jan-09	30-Sep-09	37.80	\$21,021	6.86	\$0	\$21,021	\$0	0.00																		
13445005	Proc/Vend Fab New Girder for Chicane (INJ/RE-INJ Girders)	12-Aug-10	05-Nov-10	12.20	\$0	0.00	\$14,724	\$14,724	\$0	74.40																		
<b>1.3.4.4.6 VACUUM</b>											29-Feb-12, 1.3.4.4.6 VACUUM																	
13446010	Proc Prep New Vac Chambers (INJ/RE-INJ Vac)	08-Apr-11	09-Jun-11	8.80	\$7,303	3.00	\$0	\$7,303	\$0	32.20																		
13446010a	Vend Fab New Vac Chambers (INJ/RE-INJ Vac)	14-Nov-11	29-Feb-12	13.60	\$0	0.00	\$5,857	\$5,857	\$0	10.40																		
13446010b	Receive and Inspect New Vac Chambers (INJ/RE-INJ Vac)	15-Feb-12	29-Feb-12	2.00	\$916	0.40	\$0	\$916	\$0	10.40																		
<b>1.3.4.4.7 INSTALLATION</b>											01-Aug-13, 1.3.4.4.7 INSTALLATION																	
13447005	45 MeV Dump - Remove	05-Jun-12	01-Aug-13	58.00	\$151,059	71.20	\$0	\$151,059	\$0	6.00																		
13447010	45 MeV Dump - Re-install	25-Jul-13	01-Aug-13	1.20	\$6,506	3.20	\$0	\$6,506	\$0	6.00																		
13447015	OL/OR - Remove	07-Sep-12	21-Sep-12	2.20	\$34,230	15.50	\$0	\$34,230	\$0	15.60																		
13447020	OL/OR - Install stands FY12	24-Sep-12	28-Sep-12	1.00	\$14,030	6.65	\$0	\$14,030	\$0	15.60																		
13447020a	OL/OR - Install stands FY13	01-Oct-12	05-Oct-12	1.00	\$14,478	6.65	\$0	\$14,478	\$0	15.60																		
13447025	OL/OR - Upstairs	17-Sep-12	26-Sep-12	1.60	\$18,349	8.30	\$0	\$18,349	\$0	17.00																		
13447030	OL/OR - Install magnets and girders	08-Oct-12	05-Nov-12	4.20	\$41,160	20.30	\$0	\$41,160	\$0	15.60																		
13447035	OL/OR - Final align	06-Nov-12	19-Nov-12	2.00	\$12,356	6.10	\$0	\$12,356	\$0	15.60																		
<b>1.3.4.5 ARC 10 &amp; HALL D BEAMLINE</b>											17-May-13, 1.3.4.5 ARC 10 & HALL D BEAMLINE																	
<b>1.3.4.5.1 DIPOLES</b>											28-Sep-12, 1.3.4.5.1 DIPOLES																	
13451055	Prcmnt Prep of 4m Dips (ARC10/H-D Dipl)	02-Jan-09	12-Jan-09	1.40	\$473	0.21	\$0	\$473	\$0	23.40																		
13451060M	Award Contract for 4m Dipl (ARC10/H-D Dipl)		12-Jan-09	0.00	\$0	0.00	\$0	\$0	\$0	23.40																		
13451063a	PROC 4m Dipl Cntr PP3a for Coil Material (ARC10/H-D Dipl)	30-Jun-09	30-Sep-09	13.00	\$0	0.00	\$168,436	\$168,436	\$0	92.20																		
13451063b	PROC 4m Dipl Cntr PP3b for Core Material (ARC10/H-D Dipl)	30-Jun-09	31-Aug-09	8.80	\$0	0.00	\$615,565	\$615,565	\$0	101.40																		
13451063c	PROC 4m Dipl Cntr PP3c for 1st Article Coil Set (ARC10/H-D Dipl)	30-Jun-09	30-Nov-09	21.20	\$0	0.00	\$3,856	\$3,856	\$0	89.00																		
13451063d	PROC 4m Dipl Cntr PP3d for 1st Article Core Set (ARC10/H-D Dipl)	30-Jun-09	31-Dec-09	24.80	\$0	0.00	\$23,537	\$23,537	\$0	85.40																		
13451063e-1	PROC 4m Dipl Cntr PP3e-1 Deliver 6 Magnets (ARC10/H-D Dipl)	30-Jun-09	26-Feb-10	32.40	\$0	0.00	\$164,358	\$164,358	\$0	77.80																		
13451063e-2	PROC 4m Dipl Cntr PP3e-2 Deliver 10 Magnets (ARC10/H-D Dipl)	30-Jun-09	30-Apr-10	41.40	\$0	0.00	\$273,930	\$273,930	\$0	68.80																		
13451063e-3	PROC 4m Dipl Cntr PP3e-3 Deliver 10 Magnets (ARC10/H-D Dipl)	30-Jun-09	30-Jun-10	49.80	\$0	0.00	\$273,930	\$273,930	\$0	60.40																		
13451063e-4	PROC 4m Dipl Cntr PP3e-4 Deliver 10 Magnets (ARC10/H-D Dipl)	30-Jun-09	30-Dec-10	74.20	\$0	0.00	\$273,930	\$273,930	\$0	36.00																		
13451065	FY09 LABOR Oversight 4m Dipl Contract (ARC10/H-D Dipl)	13-Jan-09	30-Sep-09	36.40	\$9,107	3.89	\$0	\$9,107	\$0	51.80																		
13451066	FY 10 LABOR Oversight 4m Dipl Contract (ARC10/H-D Dipl)	01-Oct-09	31-Aug-10	45.40	\$14,437	5.91	\$0	\$14,437	\$0	51.80																		
13451068M	Deliver 1st Article 4m Dipl (ARC10/H-D Dipl) (IPL 534213030, 534213090 and 534213150)		31-Dec-09	0.00	\$0	0.00	\$0	\$0	\$0	85.40																		
13451070M	Delivery Complete for all 4m Dipl (ARC10/H-D Dipl)		30-Dec-10	0.00	\$0	0.00	\$0	\$0	\$0	36.00																		
13451075	Prcmnt Prep for 2m Pass 6 Dipole (ARC10/H-D Dipl)	12-Jan-09	26-Jun-09	23.40	\$4,131	1.90	\$0	\$4,131	\$0	54.00																		
13451080M	Award Contract for 2m Pass 6 Dipole (ARC10/H-D Dipl)		26-Jun-09	0.00	\$0	0.00	\$0	\$0	\$0	54.00																		
13451085	P-1 Vend Fab 2m Pass 6 Dipole (ARC10/H-D Dipl) Labor FY09	29-Jun-09	30-Sep-09	13.20	\$2,280	0.98	\$0	\$2,280	\$0	54.00																		
13451085b	P-1 Vend Fab 2m Pass 6 Dipole (ARC10/H-D Dipl) Labor FY10	01-Oct-09	28-Jun-10	36.40	\$6,486	2.72	\$0	\$6,486	\$0	54.00																		
13451086	P-2 Vend Fab 2m Pass 6 Dipole (ARC10/H-D Dipl) Original Labor FY10	29-Jan-10	30-Sep-10	34.20	\$5,913	2.48	\$0	\$5,913	\$0	54.00																		
13451086a	P-2 Vend Fab 2m Pass 6 Dipole (ARC10/H-D Dipl) Original Labor FY11	01-Oct-10	28-Jan-11	15.40	\$2,747	1.12	\$0	\$2,747	\$0	54.00																		
13451090M	Delivery Complete for 2m Pass 6 Dipole (ARC10/H-D Dipl)		30-Sep-11	0.00	\$0	0.00	\$0	\$0	\$0	19.80																		
13451095	Modify Alignment Fixture for Dipl (ARC10/H-D Dipl)	01-Apr-11	05-Jul-11	13.20	\$345	0.20	\$11,977	\$12,321	\$0	42.40																		
13451100	Mag Measurement of Arc 10 & H-D Dipl (ARC10/H-D Dipl) (IPL) FY10	22-Feb-10	30-Sep-10	31.20	\$26,707	13.20	\$0	\$26,707	\$0	19.80																		
13451100a	Mag Measurement of Arc 10 & H-D Dipl (ARC10/H-D Dipl) (IPL) FY11	01-Oct-10	12-Sep-11	46.80	\$41,338	19.80	\$0	\$41,338	\$0	19.80																		
13451105	Completion of Mag Measurement of Arc 10 & H-D Dipl (ARC10/H-D Dipl) FY11	13-Sep-11	30-Sep-11	2.80	\$29,676	14.86	\$0	\$29,676	\$0	19.80																		
13451105a	Completion of Mag Measurement of Arc 10 & H-D Dipl (ARC10/H-D Dipl) FY12	03-Oct-11	14-Dec-11	10.20	\$111,550	54.14	\$0	\$111,550	\$0	19.80																		
13451909LOE	FY09 Mngmnt & Oversight (ARC10/H-D Dipl)	02-Jan-09	30-Sep-09	37.80	\$15,675	3.81	\$0	\$21,079	\$5,405	0.00																		
13451910LOE	FY10 Mngmnt & Oversight (ARC10/H-D Dipl)	01-Oct-09	30-Sep-10	49.60	\$21,224	5.00	\$0	\$34,036	\$12,812	0.00																		
13451911LOE	FY11 Mngmnt & Oversight (ARC10/H-D Dipl)	01-Oct-10	30-Sep-11	49.60	\$21,902	5.00	\$0	\$21,902	\$0	0.00																		
13451912LOE	FY12 Mngmnt & Oversight (ARC10/H-D Dipl)	03-Oct-11	28-Sep-12	49.40	\$22,600	5.00	\$0	\$22,600	\$0	0.00																		
<b>1.3.4.5.2 QUADRUPOLES</b>											08-Jul-13, 1.3.4.5.2 QUADRUPOLES																	
13452025	Prcmnt Prep for Quads (ARC 10/H-D Q-POLES)	02-Jan-09	18-Feb-09	6.40	\$3,028	1.41	\$0	\$3,028	\$0	18.40																		
13452030M	Award Contract for Quadrupoles (ARC 10/H-D Q-POLES)		03-Aug-09	0.00	\$0	0.00	\$0	\$0	\$0	-4.60																		
13452035	Vend Fab Quads (ARC 10/H-D Q-POLES) LABOR Initial	19-Feb-09	31-Jul-09	23.00	\$7,396	3.48	\$0	\$7,396	\$0	80.80																		
13452036	Vend Fab Quads (ARC 10/H-D Q-POLES) LABOR Final FY09	03-Aug-09	30-Sep-09	8.40	\$3,187	1.45	\$0	\$3,																				



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
13452036b	Vend Fab Quads (ARC 10/H-D Q-POLES) LABOR Final FY10	01-Oct-09	26-Jul-10	40.20	\$15,741	6.94	\$0	\$15,741	\$0	90.80																		
13452037	Vend Fab Quads (ARC 10/H-D Q-POLES) Recieve Materials	03-Aug-09	05-Oct-09	9.00	\$0	0.00	\$80,850	\$80,850	\$0	130.40																		
13452037A	Vend Fab Quads (ARC 10/H-D Q-POLES) Lamination Stampings	03-Aug-09	03-Aug-09	0.20	\$0	0.00	\$18,375	\$18,375	\$0	139.20																		
13452037B	Vend Fab Quads (ARC 10/H-D Q-POLES) First Article QP	03-Aug-09	16-Oct-09	10.80	\$0	0.00	\$19,500	\$19,500	\$0	80.80																		
13452037C	Vend Fab Quads (ARC 10/H-D Q-POLES) Deliver 8 QP Magnets	03-Aug-09	31-Dec-09	20.20	\$0	0.00	\$56,000	\$56,000	\$0	119.20																		
13452037D	Vend Fab Quads (ARC 10/H-D Q-POLES) Deliver 8 QP Magnets	03-Aug-09	29-Jan-10	24.00	\$0	0.00	\$56,000	\$56,000	\$0	115.40																		
13452037F	Vend Fab Quads (ARC 10/H-D Q-POLES) Deliver 3 QR Magnets	03-Aug-09	29-Jan-10	24.00	\$0	0.00	\$23,100	\$23,100	\$0	115.40																		
13452037G	Vend Fab Quads (ARC 10/H-D Q-POLES) Deliver 8 QP Magnets	03-Aug-09	26-Feb-10	27.80	\$0	0.00	\$56,000	\$56,000	\$0	111.60																		
13452037H	Vend Fab Quads (ARC 10/H-D Q-POLES) Deliver 3 QR Magnets	03-Aug-09	26-Feb-10	27.80	\$0	0.00	\$23,100	\$23,100	\$0	111.60																		
13452037J	Vend Fab Quads (ARC 10/H-D Q-POLES) Deliver 8 QP Magnets	03-Aug-09	29-Mar-10	32.00	\$0	0.00	\$56,000	\$56,000	\$0	107.40																		
13452037K	Vend Fab Quads (ARC 10/H-D Q-POLES) Deliver 3 QR Magnets	03-Aug-09	29-Mar-10	32.00	\$0	0.00	\$23,100	\$23,100	\$0	107.40																		
13452037L	Vend Fab Quads (ARC 10/H-D Q-POLES) Deliver 8 QP Magnets	03-Aug-09	30-Apr-10	36.80	\$0	0.00	\$56,000	\$56,000	\$0	102.60																		
13452037N	Vend Fab Quads (ARC 10/H-D Q-POLES) Deliver 3 QR Magnets	03-Aug-09	30-Apr-10	36.80	\$0	0.00	\$23,100	\$23,100	\$0	102.60																		
13452037o	Vend Fab Quads (ARC 10/H-D Q-POLES) Deliver 8 QP Magnets	03-Aug-09	28-May-10	40.80	\$0	0.00	\$56,000	\$56,000	\$0	98.60																		
13452037P	Vend Fab Quads (ARC 10/H-D Q-POLES) Deliver 3 QR Magnets	03-Aug-09	28-May-10	40.80	\$0	0.00	\$23,100	\$23,100	\$0	98.60																		
13452037Q	Vend Fab Quads (ARC 10/H-D Q-POLES) Deliver 4 QP Magnets	03-Aug-09	23-Jun-10	44.20	\$0	0.00	\$28,000	\$28,000	\$0	95.20																		
13452037R	Vend Fab Quads (ARC 10/H-D Q-POLES) Deliver 3 QR Magnets	03-Aug-09	23-Jun-10	44.20	\$0	0.00	\$23,100	\$23,100	\$0	95.20																		
13452037S	Vend Fab Quads (ARC 10/H-D Q-POLES) Deliver 2 QR Magnets	03-Aug-09	26-Jul-10	48.60	\$0	0.00	\$15,400	\$15,400	\$0	90.80																		
13452037T	Vend Fab Quads (ARC 10/H-D Q-POLES) Deliver 4 QP Magnets	03-Aug-09	21-Jul-10	48.00	\$0	0.00	\$38,400	\$38,400	\$0	91.40																		
13452038M	Deliver 1st Article Quadrupoles (ARC 10/H-D Q-POLES) (IPL 534213165)	16-Oct-09	16-Oct-09	0.00	\$0	0.00	\$0	\$0	\$0	80.80																		
13452040M	Delivery Complete for Quadrupoles (ARC 10/H-D Q-POLES)	26-Jul-10	26-Jul-10	0.00	\$0	0.00	\$0	\$0	\$0	90.80																		
13452045	Mag Measurment of New Quads (ARC 10/H-D Q-POLES) Labor FY10	16-Apr-10	30-Sep-10	23.40	\$40,094	19.89	\$0	\$40,094	\$0	80.80																		
13452045a	Mag Measurment of New Quads (ARC 10/H-D Q-POLES) Labor FY11	01-Oct-10	07-Feb-11	16.60	\$29,350	14.11	\$0	\$29,350	\$0	80.80																		
13452045b	Mag Measurment of New Quads (ARC 10/H-D Q-POLES) Procurement	16-Apr-10	07-Feb-11	40.00	\$0	0.00	\$2,637	\$2,637	\$0	80.80																		
13452050	Completion of Quadrapole Mag Measurement FY10	01-Jul-10	30-Sep-10	12.80	\$75,918	39.18	\$0	\$75,918	\$0	50.80																		
13452050a	Completion of Quadrapole Mag Measurement FY11	01-Oct-10	07-Feb-11	16.60	\$101,595	50.82	\$0	\$101,595	\$0	50.80																		
13453010	Prcmnt Prep for Correctors (ARC10/H-D Correctors) FY09	02-Jul-09	30-Sep-09	12.60	\$2,338	1.09	\$0	\$2,338	\$0	29.60																		
13453010b	Prcmnt Prep for Correctors (ARC10/H-D Correctors) FY10	01-Oct-09	16-Dec-09	10.60	\$2,031	0.91	\$0	\$2,031	\$0	29.60																		
13453015M	Award Contract for Correctors (ARC10/H-D CORRECTORS)		16-Dec-09	0.00	\$0	0.00	\$0	\$0	\$0	29.60																		
13453020	Vend Fab Correctors (ARC10/H-D Correctors) Labor FY10	17-Dec-09	30-Sep-10	39.00	\$8,608	3.74	\$0	\$8,608	\$0	29.60																		
13453020a	Vend Fab Correctors (ARC10/H-D Correctors) Labor FY11	01-Oct-10	12-Jan-11	13.20	\$3,006	1.26	\$0	\$3,006	\$0	29.60																		
13453020b	Vend Fab Correctors (ARC10/H-D Correctors) Procurement	17-Dec-09	12-Jan-11	52.20	\$0	0.00	\$178,024	\$178,024	\$0	29.60																		
13453025	Delivery Complete for Correctors (ARC10/H-D CORRECTORS)		12-Jan-11	0.00	\$0	0.00	\$0	\$0	\$0	29.60																		
13453030	Mag Measurment of Correctors (ARC10/H-D Correctors)	13-Jan-11	08-Jul-11	24.60	\$10,565	5.90	\$0	\$10,565	\$0	29.60																		
<b>1.3.4.5.4 STANDS</b>		<b>05-Jan-10</b>	<b>31-Aug-12</b>	<b>132.80</b>	<b>\$209,129</b>	<b>94.32</b>	<b>\$604,068</b>	<b>\$813,197</b>	<b>\$0</b>	<b>114.60</b>																		
13454015	Prcmnt Prep for Arc 10 Stands	01-Oct-10	13-Dec-10	10.00	\$11,380	4.50	\$0	\$11,380	\$0	143.00																		
13454020M	Award Arc 10 Stands		15-Mar-10	0.00	\$0	0.00	\$0	\$0	\$0	143.00																		
13454022LOE	Vend Fab Arc 10 Stands Oversight	15-Mar-10	28-Jun-10	15.00	\$3,579	1.75	\$0	\$3,579	\$0	143.00																		
13454025	Vend Fab Arc 10 Stands Phase 1	15-Mar-10	24-May-10	10.20	\$0	0.00	\$15,000	\$15,000	\$0	143.00																		
13454025A	Vend Fab Arc 10 Stands Phase 2	15-Mar-10	11-Jun-10	12.80	\$0	0.00	\$15,000	\$15,000	\$0	143.00																		
13454025B	Vend Fab Arc 10 Stands Phase 3	15-Mar-10	28-Jun-10	15.00	\$0	0.00	\$15,000	\$15,000	\$0	143.00																		
13454026	Receive and Inspect Arc 10 Stands	25-May-10	28-Jun-10	4.80	\$4,239	2.25	\$0	\$4,239	\$0	143.00																		
13454030M	Delivery Complete for Arc 10 Stands		28-Jun-10	0.00	\$0	0.00	\$0	\$0	\$0	143.00																		
13454031	Prcmnt Prep for Hall D Girder Floor Plates	01-Apr-10	28-Apr-10	4.00	\$790	0.30	\$0	\$790	\$0	157.20																		
13454032	Vend fab Hall D Girder Floor Plates	29-Apr-10	23-Jun-10	7.80	\$0	0.00	\$4,100	\$4,100	\$0	157.20																		
13454035	Proc Misc Brackets & Hardware (ARC10/H-D Stands)	01-Oct-10	14-Apr-11	26.00	\$12,397	5.50	\$9,071	\$21,467	\$0	103.80																		
13454036	Prcmnt Prep for Insertable Dumps (ARC10/H-D Stands)	05-Jan-11	07-Mar-11	8.40	\$8,901	3.40	\$0	\$8,901	\$0	45.80																		
13454040	Vend Fab Insertable Dumps (ARC10/H-D Stands)	13-Jan-12	29-Jun-12	23.40	\$0	0.00	\$25,740	\$25,740	\$0	3.40																		
13454042	Prcmnt Prep for Alignment Cartridges (ARC10/H-D Stands) FY10	02-Aug-10	30-Sep-10	8.60	\$3,064	1.20	\$0	\$3,064	\$0	54.40																		
13454042a	Prcmnt Prep for Alignment Cartridges (ARC10/H-D Stands) FY11	01-Oct-10	19-Nov-10	7.20	\$2,648	1.00	\$0	\$2,648	\$0	54.40																		
13454045	Vend Fab Alignment Cartridges (ARC10/H-D Stands)	22-Nov-10	08-Apr-11	18.00	\$0	0.00	\$61,738	\$61,738	\$0	54.40																		
13454047	Receive and Inspect Alignment Cartridges (ARC10/H-D Stands)	28-Mar-11	08-Apr-11	2.00	\$861	0.50	\$0	\$861	\$0	54.40																		
13454050	100 kW dump Modifications (ARC10/H-D Stands) Original	08-Jun-11	29-Jul-																									

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023		
13455023	Vend Fab Arc 10 Girders Oversight FY10	19-Jul-10	30-Sep-10	10.60	\$3,185	1.49	\$0	\$3,185	\$0	2.60																			
13455023a	Vend Fab Arc 10 Girders Oversight FY11	01-Oct-10	19-Nov-10	7.20	\$2,232	1.01	\$0	\$2,232	\$0	2.60																			
13455025	Vend Fab Arc 10 Girders Phase 1	19-Jul-10	22-Oct-10	13.80	\$0	0.00	\$92,188	\$92,188	\$0	2.40																			
13455028	Vend Fab Arc 10 Girders Phase 2	19-Jul-10	08-Dec-10	20.00	\$0	0.00	\$92,188	\$92,188	\$0	2.40																			
13455030	Receive and Inspect Arc 10 Girders	09-Nov-10	08-Dec-10	4.00	\$3,989	2.20	\$0	\$3,989	\$0	2.40																			
13455035	Vend Fab Hall D Floor Girders	09-Aug-10	24-Nov-10	15.40	\$0	0.00	\$34,000	\$34,000	\$0	2.00																			
13455040	Proc Prep For Hall D Girders	03-Dec-10	07-Apr-11	16.40	\$7,303	3.00	\$0	\$7,303	\$0	21.80																			
13455045	Vend Fab Hall D Girders Oversight	08-Apr-11	01-Sep-11	20.60	\$5,519	2.50	\$0	\$5,519	\$0	21.80																			
13455050	Vend Fab Hall D Girders Part 1	08-Apr-11	28-Jul-11	15.60	\$0	0.00	\$30,052	\$30,052	\$0	21.80																			
13455055	Vend Fab Hall D Girders Part 2	08-Apr-11	01-Sep-11	20.60	\$0	0.00	\$30,052	\$30,052	\$0	21.80																			
13455060	Receive and Inspect Hall D Girders	29-Jul-11	01-Sep-11	5.00	\$3,128	1.70	\$0	\$3,128	\$0	21.80																			
13455075	Prermnt Prep for Hall D Stands Phase 1	01-Jun-10	30-Jun-10	4.40	\$3,539	1.50	\$0	\$3,539	\$0	108.20																			
13455080	Prermnt Prep for Hall D Stands Phase 2	09-Jun-11	30-Sep-11	16.00	\$10,955	4.50	\$0	\$10,955	\$0	61.80																			
13455080M	Award Hall D Stands		17-Jan-12	0.00	\$0	0.00	\$0	\$0	\$0	48.20																			
13455085LOE	Vend Fab Hall D Stands Oversight	18-Jan-12	30-Apr-12	14.60	\$3,811	1.75	\$0	\$3,811	\$0	65.60																			
13455090	Vend Fab Hall D Stands	11-Jun-12	31-Aug-12	12.00	\$0	0.00	\$88,824	\$88,824	\$0	48.20																			
13455105	Receive and Inspect Hall DStands	07-Mar-12	30-Apr-12	7.80	\$4,513	2.25	\$0	\$4,513	\$0	66.60																			
13455110M	Delivery Complete for Hall D Stands		31-Aug-12	0.00	\$0	0.00	\$0	\$0	\$0	48.20																			
13455115	Proc Prep Arc 10 Floor to Ceiling Stands	04-Jun-10	23-Aug-10	11.20	\$12,346	5.00	\$0	\$12,346	\$0	110.00																			
13455120	Vend Fab Arc 10 Floor to Ceiling Stands	17-Nov-10	03-Mar-11	13.40	\$0	0.00	\$15,479	\$15,479	\$0	110.00																			
13455125	Receive and Inspect Arc 10 Floor to Ceiling Stands	17-Feb-11	03-Mar-11	2.00	\$6,164	3.00	\$0	\$6,164	\$0	110.00																			
13455130	Proc Prep Tagger Dump Enclosure	02-Aug-10	24-Sep-10	7.80	\$12,506	6.00	\$0	\$12,506	\$0	207.80																			
13455135	Vend Fab Tagger Dump Enclosure	20-Aug-10	14-Oct-10	7.80	\$0	0.00	\$12,000	\$12,000	\$0	207.80																			
13455140	Proc Prep Hall D Movable Shield Wall FY10	02-Aug-10	30-Sep-10	8.60	\$16,133	7.74	\$0	\$16,133	\$0	186.40																			
13455140a	Proc Prep Hall D Movable Shield Wall FY11	01-Oct-10	11-Oct-10	1.40	\$2,710	1.26	\$0	\$2,710	\$0	186.40																			
13455145	Vend Fab Hall D Movable Shield Wall	12-Oct-10	28-Mar-11	22.00	\$0	0.00	\$41,276	\$41,276	\$0	186.40																			
<b>1.3.4.5.6 VACUUM</b>		<b>14-Apr-10</b>	<b>30-Apr-12</b>	<b>101.60</b>	<b>\$93,024</b>	<b>46.75</b>	<b>\$330,915</b>	<b>\$423,939</b>	<b>\$0</b>	<b>9.80</b>																			
13456015	Prermnt Prep for Dipole Chambers (ARC 10/H-D Vac)	01-Oct-10	13-Dec-10	10.00	\$9,088	3.50	\$0	\$9,088	\$0	46.40																			
13456020M	Award Contract for Dipole Chambers (ARC 10/H-D VACUUM)		30-Jul-10	0.00	\$0	0.00	\$0	\$0	\$0	46.40																			
13456022LOE	Vend Fab Dipole Chambers (ARC 10/H-D Vac) Oversight FY10	30-Jul-10	30-Sep-10	8.80	\$2,076	0.88	\$0	\$2,076	\$0	58.40																			
13456022LOE	Vend Fab Dipole Chambers (ARC 10/H-D Vac) Oversight FY11	01-Oct-10	11-Mar-11	21.20	\$5,161	2.12	\$0	\$5,161	\$0	58.40																			
13456025	Vend Fab Dipole Chambers (ARC 10/H-D Vac) Phase 1	30-Jul-10	19-Nov-10	16.00	\$0	0.00	\$33,879	\$33,879	\$0	46.40																			
13456027	Vend Fab Dipole Chambers (ARC 10/H-D Vac) Phase 2	30-Jul-10	14-Jan-11	22.40	\$0	0.00	\$33,879	\$33,879	\$0	58.40																			
13456028	Vend Fab Dipole Chambers (ARC 10/H-D Vac) Phase 3	30-Jul-10	11-Mar-11	30.00	\$0	0.00	\$33,879	\$33,879	\$0	58.40																			
13456029	Receive and Inspect Dipole Chambers (ARC 10/H-D Vac)	22-Nov-10	11-Mar-11	14.00	\$4,805	2.50	\$0	\$4,805	\$0	58.40																			
13456030M	Delivery Complete for Dipole Chambers (ARC 10/H-D VACUUM)		19-Nov-10	0.00	\$0	0.00	\$0	\$0	\$0	46.40																			
13456032	Prermnt Prep of Ion Pumps & Vac Valves (ARC 10/H-D Vac)	14-Apr-10	15-Jun-10	8.80	\$7,078	3.00	\$0	\$7,078	\$0	50.80																			
13456035	Prermnt of Ion Pumps & Vac Valves (ARC 10/H-D Vac)	10-Sep-10	07-Feb-11	19.60	\$0	0.00	\$105,923	\$105,923	\$0	50.80																			
13456037	Prermnt Prep of Bellows & Drift tubes (ARC 10/H-D Vac)	11-May-10	02-Aug-10	11.60	\$7,982	3.50	\$0	\$7,982	\$0	1.80																			
13456040	Prermnt of Bellows & Drift tubes (ARC 10/H-D Vac)	29-Sep-10	16-Feb-11	18.40	\$0	0.00	\$59,935	\$59,935	\$0	1.80																			
13456042	Prermnt of Hall D Drift tubes (ARC 10/H-D Vac)	16-Feb-12	30-Apr-12	10.40	\$0	0.00	\$37,269	\$37,269	\$0	1.80																			
13456045	Assemble Quad Girders for Arc10 & Hall D on Floor (ARC 10/H-D Vac)	30-Nov-10	29-Apr-11	20.20	\$38,252	21.50	\$23,811	\$62,063	\$0	1.80																			
13456047	Assemble Quad Girders for Arc10 & Hall D (ARC 10/H-D Vac)	06-Oct-11	08-Mar-12	20.20	\$18,583	9.75	\$2,340	\$20,923	\$0	17.20																			
<b>1.3.4.5.8 INSTALLATION</b>		<b>13-May-11</b>	<b>17-May-13</b>	<b>100.00</b>	<b>\$219,444</b>	<b>109.00</b>	<b>\$440</b>	<b>\$219,884</b>	<b>\$0</b>	<b>28.00</b>																			
13458010	Install Stands in Arc 10 Phase 1	27-Jun-11	27-Sep-11	13.00	\$5,466	2.90	\$440	\$5,906	\$0	93.80																			
13458012	Install Stands in Arc 10 Phase 2	17-May-11	16-Aug-11	12.80	\$15,783	8.40	\$0	\$15,783	\$0	99.60																			
13458030	Remove North Stub dump & Steel (ARC 10/H-D Installtn)	13-May-11	01-Jul-11	7.00	\$0	0.00	\$0	\$0	\$0	105.40																			
13458040	Arc 10 Installation Completion	01-Oct-12	14-Feb-13	18.00	\$42,840	21.10	\$0	\$42,840	\$0	25.80																			
13458045	Hall D - Tagger dump installation	04-Apr-13	17-May-13	6.40	\$48,690	24.00	\$0	\$48,690	\$0	16.40																			
13458050	Hall D - Green door install	01-Oct-12	02-Nov-12	5.00	\$18,862	9.30	\$0	\$18,862	\$0	42.20																			
13458055	Hall D - Install Stands	30-Jan-13	01-Mar-13	4.40	\$30,195	14.90	\$0	\$30,195	\$0	28.80																			
13458060	Hall D - Install magnets and girders	04-Mar-13	06-May-13	9.20	\$57,609	28.40	\$0	\$57,609	\$0	28.80																			
13458065	Hall D - Final align																												



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
13461010	Machine Lambertson Mag Iron LABOR (LAMBERTSON)	05-Jan-12	19-Jan-12	2.00	\$7,097	3.00	\$0	\$7,097	\$0	93.20																	
13461015	Machine Lambertson Mag Iron MATL (LAMBERTSON)	03-Oct-11	21-Dec-11	11.20	\$0	0.00	\$7,020	\$7,020	\$0	93.20																	
13461020	Lambertson Mag measurements (LAMBERTSON)	15-Nov-12	21-Nov-12	1.00	\$3,282	1.50	\$0	\$3,282	\$0	49.40																	
13461025	Install Lambertson Coil pack (LAMBERTSON)	08-Nov-12	14-Nov-12	1.00	\$10,386	5.00	\$0	\$10,386	\$0	49.40																	
13461035	Install New Lambertson MATL (LAMBERTSON)	26-Nov-12	30-Nov-12	1.00	\$0	0.00	\$6,882	\$6,882	\$0	49.40																	
13461040	Test New Lambertson (LAMBERTSON)	03-Dec-12	07-Dec-12	1.00	\$911	0.50	\$0	\$911	\$0	49.40																	
13461045M	Ready for Beam Commssng (LAMBERTSON)		07-Dec-12	0.00	\$0	0.00	\$0	\$0	\$0	49.40																	
13461050LOE	FY11 Engng Oversight (LAMBERTSON)	01-Apr-11	30-Sep-11	25.60	\$2,806	1.03	\$0	\$4,561	\$1,756	0.00																	
<b>1.3.4.6.2 CHICANE</b>																											
13462000	Fab Dipole Magnets (CHICANE) Original Labor FY11	01-Apr-11	10-May-12	55.40	\$17,446	7.43	\$0	\$19,787	\$2,341	46.60																	
13462000a	Fab Dipole Magnets (CHICANE) Original Labor FY12	03-Oct-11	08-Feb-12	16.80	\$4,476	1.76	\$0	\$4,476	\$0	46.60																	
13462005	Measure Dipole Magnets (CHICANE) (IPL 534213060 and 534213120)	09-Feb-12	10-May-12	13.00	\$6,360	3.00	\$0	\$6,360	\$0	46.60																	
13462010M	Extraction Dipoles Ready for Installtn (CHICANE)		10-May-12	0.00	\$0	0.00	\$0	\$0	\$0	46.60																	
13462015LOE	FY11 Mech Eng/Dsgnr Oversight (CHICANE)	01-Apr-11	30-Sep-11	25.60	\$0	0.00	\$0	\$2,341	\$2,341	0.00																	
<b>1.3.4.6.3 STANDS</b>																											
13463000	Insp Matls (Stands)	03-Jan-12	26-Jun-13	74.20	\$253,611	120.19	\$30,897	\$285,716	\$1,208	4.80																	
13463005	Fab Stands LABOR (Stands)	03-Jan-12	03-May-12	17.20	\$473	0.20	\$0	\$473	\$0	34.60																	
13463010	Fab Stands MATL (Stands) Frozen Per CR12-039	03-Jan-12	30-Apr-12	16.60	\$0	0.00	\$16,908	\$16,908	\$0	35.20																	
13463012	Reverse Entry Per CR12-039	01-May-12	03-May-12	0.60	\$0	0.00	(\$16,908)	(\$16,908)	\$0	20.60																	
13463013	Fab Stands MATL (Stands) Revised Per CR12-039	01-May-12	03-May-12	0.60	\$0	0.00	\$15,926	\$15,926	\$0	34.60																	
13463015	Extraction - Remove	15-Aug-12	28-Sep-12	6.40	\$75,305	34.10	\$0	\$75,305	\$0	20.40																	
13463020	Install Stands MATL (Stands)	15-Nov-12	18-Dec-12	4.40	\$0	0.00	\$4,709	\$4,709	\$0	20.40																	
13463025	Extraction - Install stands	15-Nov-12	18-Dec-12	4.40	\$27,781	13.70	\$0	\$27,781	\$0	20.40																	
13463030	Install Septa & Dipoles MATL (Stands)	19-Dec-12	27-Feb-13	8.60	\$0	0.00	\$10,262	\$10,262	\$0	20.40																	
13463035	Extraction - Upstairs FY12	31-Aug-12	28-Sep-12	4.00	\$35,258	16.65	\$0	\$35,258	\$0	28.00																	
13463035a	Extraction - Upstairs FY13	01-Oct-12	23-Oct-12	3.40	\$30,927	14.15	\$0	\$30,927	\$0	28.00																	
13463045	Extraction - Install magnets and girders	19-Dec-12	27-Feb-13	8.60	\$67,918	33.50	\$0	\$67,918	\$0	20.40																	
13463045LOE	FY12 Mech Eng/Dsgnr Oversight (Stands)	05-Jan-12	28-Sep-12	37.40	\$0	0.00	\$0	\$1,208	\$1,208	0.00																	
13463050	Extraction - Final align	19-Jun-13	26-Jun-13	1.20	\$14,769	7.30	\$0	\$14,769	\$0	4.80																	
<b>1.3.5 EXTRACTION</b>																											
<b>1.3.5.1 CAVITIES</b>																											
1351016	Proc Separator Cavity Matls & subassemblies LABOR (Cavities)	01-Dec-11	02-Mar-12	11.80	\$4,255	1.70	\$0	\$4,255	\$0	41.60																	
1351016a	Proc Separator Cavity Matls & subassemblies MATERIALS (Cavities)	01-Dec-11	02-Mar-12	11.80	\$0	0.00	\$62,010	\$62,010	\$0	41.60																	
1351018	Fab fixturing Assys for Fab (Cavities)	01-Oct-10	21-Oct-10	3.00	\$861	0.50	\$0	\$861	\$0	113.20																	
1351040	Assy of Separator Cavities (Cavities)	09-Apr-12	19-Jun-12	10.00	\$7,091	3.70	\$5,288	\$12,379	\$0	41.60																	
1351055	Test Separator Cavities	20-Jun-12	21-Aug-12	9.00	\$6,010	2.80	\$0	\$6,010	\$0	41.60																	
1351065	Installtn of Separator Cavities (Cavities) FY12	06-Sep-12	28-Sep-12	3.40	\$8,293	4.42	\$0	\$8,293	\$0	41.60																	
1351065a	Installtn of Separator Cavities (Cavities) FY13	01-Oct-12	10-Oct-12	1.60	\$4,027	2.08	\$0	\$4,027	\$0	41.60																	
1351080	RF Characterization of Installed Separator Cavities (Cavities)	11-Oct-12	24-Oct-12	2.00	\$7,969	3.30	\$0	\$7,969	\$0	41.60																	
1351909LOE	FY09 Mngmnt Oversight (Cavities)	02-Jan-09	30-Sep-09	37.80	\$27,229	10.59	\$0	\$30,069	\$2,840	0.00																	
1351910LOE	FY10 Mngmnt Oversight (Cavities)	01-Oct-09	30-Sep-10	49.60	\$36,868	13.90	\$0	\$40,714	\$3,846	0.00																	
1351911LOE	FY11 Mngmnt Oversight (Cavities)	01-Oct-10	30-Sep-11	49.60	\$30,109	11.00	\$0	\$30,109	\$0	0.00																	
<b>1.3.5.2 RF COMPONENTS</b>																											
1352005	Proc RF Components LABOR (RF Compnts)	05-Jan-12	01-May-12	16.40	\$6,863	3.00	\$0	\$6,863	\$0	51.20																	
1352005a	Proc RF Components MATERIAL (RF Compnts)	05-Jan-12	01-May-12	16.40	\$0	0.00	\$104,131	\$104,131	\$0	51.20																	
1352020	Install RF Components (RF Compnts)	14-May-12	18-Jul-12	9.20	\$22,807	12.90	\$0	\$22,807	\$0	49.60																	
1352035	Characterize Sys losses (RF Compnts)	19-Jul-12	12-Sep-12	7.80	\$14,471	7.00	\$0	\$14,471	\$0	49.60																	
<b>1.3.5.3 RESONANCE CONTROL</b>																											
1353005	Procure Resonance Control LABOR (RESONANCE Control)	05-Jan-12	02-Apr-12	12.20	\$8,676	3.70	\$0	\$8,676	\$0	64.60																	
1353005a	Procure Resonance Control MATERIAL (RESONANCE Control)	05-Jan-12	02-Apr-12	12.20	\$0	0.00	\$36,095	\$36,095	\$0	64.60																	
1353020	Assemble Heater Units (RESONANCE Control)	03-Apr-12	11-May-12	5.80	\$7,682	4.30	\$0	\$7,682	\$0	64.60																	
1353040	Modify Control Chassis (RESONANCE Control)	03-Apr-12	11-May-12	5.80	\$10,499	4.00	\$0	\$10,499	\$0	64.60																	
1353070	Install Control Valves (RESONANCE Control)	03-Apr-12	01-May-12	4.20	\$1,771	1.00	\$0	\$1,771	\$0	66.20																	
1353085	Move 5th pass Controls/Rack (RESONANCE Control)	19-Jan-12	01-Mar-12	6.00	\$4,432	2.50	\$0	\$4,432	\$0	74.80																	
1353095	Sys Testing (RESONANCE Control)	25-Oct-12	07-Nov-12	2.00	\$22,618	9.80	\$0	\$22,618	\$0	41.60																	
<b>1.3.5.4 LAMBERTSON</b>																											
1354909LOE	FY09 Engng Oversight (LAMBERTSON)	02-Jan-09	30-Sep-09	37.80	\$3,890	1.52	\$0	\$6,325	\$2,434	25.60																	
1354910LOE	FY10 Engng Oversight (LAMBERTSON)	01-Oct-09	30-Sep-10	49.60	\$5,268	2.00	\$0	\$8,564	\$3,296	25.60																	

█ Primary Baseline   
 █ Remaining Work   
 ◆ Baseline Milestone  
█ Actual Work   
 █ Critical Remaining Work   
 ◆ Milestone











Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	Y2007	Y2008	Y2009	Y2010	Y2011	Y2012	Y2013	Y2014	Y2015	Y2016	Y2017	Y2018	Y2019	Y2020	Y2021	Y2022	Y2023		
13641025	Install FSD Wire & Cable (MPS) FY12	19-Mar-12	28-Sep-12	27.40	\$8,656	4.52	\$0	\$13,162	\$4,506	36.60																			
13641025a	Install FSD Wire & Cable for RF Installation (MPS) FY11	27-Jun-11	30-Sep-11	13.60	\$1,729	0.93	\$0	\$1,963	\$234	74.20																			
13641025ab	Install FSD Wire & Cable for RF Installation (MPS) FY12	03-Oct-11	06-Feb-12	16.40	\$2,152	1.12	\$0	\$2,443	\$291	74.20																			
13641025b	Install FSD Wire & Cable (MPS) FY13	01-Oct-12	17-Oct-12	2.60	\$848	0.43	\$0	\$1,289	\$441	36.60																			
13641030	Install/Test FSD Hardware (MPS)	01-Nov-12	21-Dec-12	7.00	\$10,489	4.80	\$0	\$10,489	\$0	35.60																			
13641030a	Install/Test FSD Hardware for RF Installation(MPS)	07-Feb-12	20-Mar-12	6.00	\$2,541	1.20	\$0	\$2,541	\$0	74.20																			
13641035	Develop/Install/Test FSD Firmware (MPS)	18-Oct-12	14-Dec-12	8.00	\$14,562	5.00	\$0	\$14,562	\$0	36.60																			
13641040	Develop/Install/Test FSD Software (MPS)	20-Nov-12	21-Dec-12	4.40	\$2,708	1.00	\$0	\$2,708	\$0	35.60																			
13641045M	FSD Sys Comp (MPS)		21-Dec-12	0.00	\$0	0.00	\$0	\$0	\$0	35.60																			
13641050	Proc BLM Hardware (MPS)	05-Jan-12	02-Mar-12	8.00	\$6,353	3.00	\$42,623	\$48,976	\$0	35.60																			
13641055	Test/QA BLM Hardware (MPS)	05-Mar-12	13-Apr-12	6.00	\$6,353	3.00	\$0	\$6,353	\$0	58.00																			
13641060	Install BLM Wire & Cable (MPS)	01-Nov-12	21-Dec-12	7.00	\$20,398	10.00	\$0	\$31,678	\$11,280	35.60																			
13641065	Install BLM Hardware (MPS)	15-Feb-13	15-Mar-13	4.00	\$10,199	5.00	\$0	\$10,199	\$0	16.60																			
13641070	Develop/Install/Test BLM Firmware (MPS)	01-Nov-12	21-Dec-12	7.00	\$11,650	4.00	\$0	\$11,650	\$0	35.60																			
13641075	Develop/Install/Test BLM Software (MPS)	18-Mar-13	15-May-13	8.60	\$5,417	2.00	\$0	\$5,417	\$0	16.60																			
13641080M	BLM Sys Comp (MPS)		15-May-13	0.00	\$0	0.00	\$0	\$0	\$0	16.60																			
13641085	Proc Tagger/Hall D Beam Loss Monitoring Hardware (MPS)	05-Jan-12	16-Mar-12	10.00	\$4,588	2.00	\$27,250	\$31,837	\$0	62.20																			
13641090	Test/QA Tagger/Hall D Beam Loss Monitoring Hardware (MPS)	19-Mar-12	13-Apr-12	4.00	\$6,353	3.00	\$0	\$6,353	\$0	62.20																			
13641095	Install/Test Tagger/Hall D Beam Loss Monitoring Sys (MPS)	14-Jan-13	14-Mar-13	8.40	\$8,377	4.00	\$0	\$8,377	\$0	25.40																			
13641100M	Beam Loss Ion Chamb Sys Comp (MPS)		14-Mar-13	0.00	\$0	0.00	\$0	\$0	\$0	25.40																			
13641909LOE	FY09 Mngmnt & Elect Dsgn Supprt Effort for MPS	02-Jan-09	30-Sep-09	37.80	\$454	0.15	\$0	\$454	\$0	0.00																			
13641910LOE	FY10 Mngmnt & Elect Dsgn Supprt Effort for MPS	01-Oct-09	30-Sep-10	49.60	\$614	0.20	\$0	\$614	\$0	0.00																			
13641911LOE	FY11 Mngmnt & Elect Dsgn Supprt Effort for MPS	01-Oct-10	30-Sep-11	49.60	\$7,075	2.50	\$0	\$7,075	\$0	0.00																			
13641912LOE	FY12 Mngmnt & Elect Dsgn Supprt Effort for MPS	03-Oct-11	28-Sep-12	49.40	\$7,301	2.50	\$0	\$7,301	\$0	0.00																			
13641913LOE	FY13 Mngmnt & Elect Dsgn Supprt Effort for MPS	01-Oct-12	30-Sep-13	49.60	\$7,533	2.50	\$0	\$7,533	\$0	0.00																			
<b>1.3.6.4.2 BELS</b>		<b>02-Jan-09</b>	<b>30-Sep-13</b>	<b>236.00</b>	<b>\$56,838</b>	<b>22.75</b>	<b>\$28,834</b>	<b>\$90,671</b>	<b>\$5,000</b>	<b>0.00</b>																			
13642005	Develop/Install/Test BELS Software	21-May-13	02-Jul-13	6.00	\$11,242	4.00	\$0	\$11,242	\$0	10.00																			
13642014	Proc BELS Hardware	05-Jan-12	20-Apr-12	15.00	\$2,822	1.00	\$25,834	\$28,656	\$0	54.60																			
13642015	Test/QA BELS Compnts	19-Mar-13	17-Apr-13	4.40	\$10,199	5.00	\$0	\$10,199	\$0	10.00																			
13642019	Proc Remaining BELS Hardware	17-Jan-13	15-Mar-13	8.00	\$0	0.00	\$3,000	\$3,000	\$0	10.20																			
13642020	Install BELS Hardware	18-Apr-13	18-Jun-13	8.60	\$13,842	7.00	\$0	\$18,842	\$5,000	10.00																			
13642030M	BELS Sys Comp		02-Jul-13	0.00	\$0	0.00	\$0	\$0	\$0	10.00																			
13642909LOE	FY09 Mngmnt & Elect Dsgn Supprt Effort for BELS	02-Jan-09	30-Sep-09	37.80	\$454	0.15	\$0	\$454	\$0	0.00																			
13642910LOE	FY10 Mngmnt & Elect Dsgn Supprt Effort for BELS	01-Oct-09	30-Sep-10	49.60	\$614	0.20	\$0	\$614	\$0	0.00																			
13642911LOE	FY11 Mngmnt & Elect Dsgn Supprt Effort for BELS	01-Oct-10	30-Sep-11	49.60	\$5,705	1.80	\$0	\$5,705	\$0	0.00																			
13642912LOE	FY12 Mngmnt & Elect Dsgn Supprt Effort for BELS	03-Oct-11	28-Sep-12	49.40	\$5,886	1.80	\$0	\$5,886	\$0	0.00																			
13642913LOE	FY13 Mngmnt & Elect Dsgn Supprt Effort for BELS	01-Oct-12	30-Sep-13	49.60	\$6,074	1.80	\$0	\$6,074	\$0	0.00																			
<b>1.3.6.4.3 PSS</b>		<b>02-Jan-09</b>	<b>30-Sep-13</b>	<b>236.00</b>	<b>\$660,766</b>	<b>296.40</b>	<b>\$383,145</b>	<b>\$1,203,252</b>	<b>\$159,341</b>	<b>30.00</b>																			
13643014	Let Endstation PSS Cable Plant Contract	05-Jan-12	02-Mar-12	8.00	\$10,161	3.60	\$21,130	\$31,291	\$0	58.00																			
13643015	PSS Cable Plant Installtn (Contract Oversight)	05-Mar-12	30-Mar-12	4.00	\$7,410	3.00	\$0	\$7,410	\$0	58.00																			
13643020	Proc PLC Systems (PSS)	01-Nov-11	05-Jan-12	8.00	\$5,645	2.00	\$31,427	\$37,072	\$0	70.40																			
13643020a	Proc PLC Systems for RF Installation (PSS)	01-Nov-10	05-Jan-11	8.00	\$2,735	1.00	\$37,768	\$40,503	\$0	120.00																			
13643020b	Proc Remaining Cable and PLC Systems	01-Nov-12	05-Dec-12	4.60	\$0	0.00	\$55,000	\$55,000	\$0	70.40																			
13643025	Test/QA PLC Systems (PSS)	06-Jan-12	17-Feb-12	6.00	\$14,186	5.99	\$0	\$14,186	\$0	70.40																			
13643025a	Test/QA PLC Systems for RF Installation (PSS)	06-Jan-11	17-Feb-11	6.00	\$2,325	1.00	\$0	\$2,325	\$0	120.00																			
13643030	Proc Custom Compnts (Run/Safe, Interface Chassis) (PSS) Labor FY11(FY12 @ 13643...	01-Oct-10	30-Sep-11	49.60	\$1,125	0.55	\$0	\$1,386	\$261	30.20																			
13643030a	Proc Custom Compnts (Run/Safe, Interface Chassis) for RF Installation (PSS)	01-Oct-10	21-Jan-11	14.40	\$3,934	2.00	\$10,319	\$30,392	\$16,139	30.20																			
13643030b	Proc Custom Compnts (Run/Safe, Interface Chassis) (PSS) Labor FY12 (FY11 @ 1364...	03-Oct-11	21-Sep-12	48.40	\$1,132	0.53	\$0	\$1,395	\$262	30.20																			
13643030c	Proc Custom Compnts (Run/Safe, Interface Chassis) (PSS) Procurement	01-Oct-10	21-Sep-12	98.00	\$0	0.00	\$8,401	\$8,401	\$0	30.20																			
13643035	Test/QA Custom Compnts (PSS) FY11 (FY12 @ 13643035b)	12-Nov-10	30-Sep-11	43.60	\$4,567	2.67	\$0	\$4,567	\$0	30.20																			
13643035a	Test/QA Custom Compnts for RF Installation (PSS) FY11	24-Jan-11	30-Sep-11	35.20	\$1,344	0.79	\$0	\$1,344	\$0	30.20																			
13643035ab	Test/QA Custom Compnts for RF Installation (PSS) FY12	03-Oct-11	28-Sep-12	49.40	\$1,947	1.10	\$0	\$1,947	\$0	30.20																			
13643035abb	Test/QA Custom Compnts for																												

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	023		
13643040b	Proc Local Cable, Conduit, Infrastructure (PSS) Labor FY12 (FY11 @ 13643040)	03-Oct-11	01-Dec-11	8.40	\$1,451	0.51	\$0	\$1,451	\$0	7.00																			
13643040c	Proc Local Cable, Conduit, Infrastructure (PSS) Labor Procurement	07-Dec-10	01-Dec-11	49.00	\$0	0.00	\$30,744	\$30,744	\$0	7.00																			
13643045	Install Linac Cable Conduit, Infrastructure (PSS) FY12	23-Jan-12	28-Sep-12	35.20	\$40,274	24.84	\$0	\$121,405	\$81,131	30.40																			
13643045a	Install Linac Cable Conduit, Infrastructure for RF Installation (PSS)	02-May-11	01-Jul-11	8.80	\$10,636	6.00	\$0	\$10,636	\$0	16.60																			
13643045b	Install Linac Cable Conduit, Infrastructure (PSS) FY13	01-Oct-12	01-Nov-12	4.80	\$5,667	3.39	\$0	\$17,083	\$11,416	30.40																			
13643050	Proc COTS Compnts (Access Control, Video,etc) (PSS) Labor FY11	05-Jan-11	30-Sep-11	37.60	\$24,667	10.74	\$0	\$24,667	\$0	61.20																			
13643050a	Proc COTS Compnts (Access Control, Video,etc) (PSS) Labor FY12	03-Oct-11	29-Dec-11	11.40	\$7,717	3.26	\$0	\$7,717	\$0	61.20																			
13643050b	Proc COTS Compnts (Access Control, Video,etc) (PSS) Procurement	05-Jan-11	29-Dec-11	49.00	\$0	0.00	\$101,796	\$101,796	\$0	61.20																			
13643055	Test/QA COTS Compnts (PSS)	30-Dec-11	27-Mar-12	12.00	\$20,474	11.00	\$0	\$20,474	\$0	61.20																			
13643060	Proc Beam Transport Monitor Compnts (PSS)	05-Jan-12	02-Mar-12	8.00	\$7,665	3.00	\$12,074	\$19,740	\$0	65.80																			
13643065	Fab & Test Beam Transport Monitor (PSS)	05-Mar-12	13-Apr-12	6.00	\$3,530	2.00	\$0	\$3,530	\$0	65.80																			
13643070	Install Beam Transport Monitor (PSS)	13-May-13	14-Jun-13	4.80	\$23,214	9.00	\$0	\$23,214	\$0	12.40																			
13643075	Install RF, Mag Interfaces (PSS)	01-Dec-11	20-Jan-12	6.00	\$13,763	6.00	\$0	\$13,763	\$0	82.40																			
13643080	Upgrade Existing PLC Sys in Linacs (PSS)	14-May-12	10-Jul-12	8.00	\$18,350	8.00	\$0	\$18,350	\$0	58.60																			
13643085	Fab & Install Tagger Bldg, Racks (PSS)	01-Dec-11	20-Jan-12	6.00	\$6,353	3.00	\$0	\$15,740	\$9,387	1.20																			
13643090	Fab & Install H-D Racks PSS	01-Dec-11	20-Jan-12	6.00	\$6,353	3.00	\$0	\$15,726	\$9,373	1.20																			
13643095	Proc Matr's for Beam Stoppers & Diffusers (PSS)	05-Jan-12	02-Mar-12	8.00	\$7,422	3.00	\$13,888	\$21,310	\$0	62.20																			
13643100	Fab & Test Beam Stoppers & Diffusers (PSS)	05-Mar-12	11-May-12	10.00	\$28,062	13.00	\$0	\$41,342	\$13,280	62.20																			
13643105	Install Beam Stoppers & Diffusers (PSS)	06-May-13	05-Jun-13	4.40	\$3,669	2.00	\$0	\$3,669	\$0	13.80																			
13643110	Proc PSS Beam Current Monitor Compnts	05-Jan-12	10-Jul-12	26.00	\$5,645	2.00	\$14,496	\$20,141	\$0	48.60																			
13643115	Test/QA PSS Beam Current Monitor Compnts	11-Jul-12	07-Aug-12	4.00	\$7,410	3.00	\$0	\$7,410	\$0	48.60																			
13643120	Install & Test PSS Beam Current Monitor	08-Aug-12	19-Sep-12	6.00	\$16,923	8.00	\$0	\$16,923	\$0	48.60																			
13643125	Proc ODH Monitoring Sys (PSS)	03-Oct-11	11-Nov-11	6.00	\$2,822	1.00	\$0	\$2,822	\$0	77.60																			
13643130	Test/QA ODH Monitoring Sys (PSS)	14-Nov-11	04-Jan-12	6.00	\$6,353	3.00	\$0	\$6,353	\$0	77.60																			
13643135	Install & Test ODH Monitoring Sys (PSS)	05-Jan-12	16-Feb-12	6.00	\$7,920	4.00	\$0	\$7,920	\$0	77.60																			
13643137	Complete the Install & Test of ODH Monitoring Sys (PSS)	01-Nov-12	07-Dec-12	5.00	\$4,798	2.04	\$0	\$4,798	\$0	37.60																			
13643140	Upgrade MCC Console (PSS)	17-Feb-12	24-Feb-12	1.00	\$6,707	3.50	\$0	\$6,707	\$0	77.60																			
13643145	Install & Test Access Control Sys (PSS)	17-Dec-12	20-Mar-13	12.00	\$35,690	16.00	\$0	\$35,690	\$0	24.60																			
13643150	Proc Equipment for H-A, B, C Upgrades (PSS)	05-Jan-12	16-Feb-12	6.00	\$0	0.00	\$7,242	\$7,242	\$0	70.20																			
13643155	Install & Test H-A, B, C Upgrades (PSS)	01-Jul-13	28-Aug-13	8.40	\$8,377	4.00	\$0	\$8,377	\$0	2.00																			
13643160	Create & Simulate PSS Logic Programs	01-Oct-10	03-Mar-11	20.00	\$21,882	8.00	\$0	\$21,882	\$0	106.20																			
13643165	Install & Test PSS Logic Programs	23-Jan-12	13-Jun-12	20.00	\$10,761	4.12	\$0	\$13,761	\$0	62.40																			
13643165a	Install & Test PSS Logic Programs for Linac RF Upgrade	25-Jul-11	01-Aug-11	1.20	\$2,223	1.00	\$0	\$2,223	\$0	16.60																			
13643170M	Linac PSS Systems Comp		02-Nov-12	0.00	\$0	0.00	\$0	\$0	\$0	42.20																			
13643172M	Linac RF PSS Systems Comp		11-Aug-11	0.00	\$0	0.00	\$0	\$0	\$0	16.60																			
13643175M	Halls A, B, C PSS Systems Comp		28-Aug-13	0.00	\$0	0.00	\$0	\$0	\$0	2.00																			
13643180M	Tagger Bldg PSS Systems Comp		20-Mar-13	0.00	\$0	0.00	\$0	\$0	\$0	24.60																			
13643185M	H-D PSS Systems Comp		20-Mar-13	0.00	\$0	0.00	\$0	\$0	\$0	24.60																			
13643205	Install Public Address Sys (PSS)	17-Dec-12	05-Feb-13	6.00	\$10,199	5.00	\$0	\$10,199	\$0	30.60																			
13643210	Cable Plant - Field Termination (PSS)	28-Nov-12	14-Dec-12	2.60	\$6,556	3.00	\$0	\$24,242	\$17,686	24.60																			
13643215	Tagger ODH Management Oversight FY12	01-Aug-12	28-Sep-12	8.40	\$539	0.19	\$0	\$539	\$0	40.40																			
13643215a	Tagger ODH Management Oversight FY13	01-Oct-12	16-Nov-12	7.00	\$463	0.16	\$0	\$463	\$0	40.40																			
13643220	Change Control Process	01-Aug-12	10-Aug-12	1.60	\$565	0.20	\$0	\$565	\$0	54.00																			
13643225	Design 5C Line ODH Monitoring	01-Aug-12	15-Aug-12	2.20	\$5,722	2.30	\$0	\$5,722	\$0	40.40																			
13643230	Design HD Tagger ODH Monitoring	01-Aug-12	15-Aug-12	2.20	\$3,403	1.45	\$0	\$3,403	\$0	40.40																			
13643235	Design Review (Internal)	16-Aug-12	16-Aug-12	0.20	\$2,258	0.80	\$0	\$2,258	\$0	40.40																			
13643240	5 C Line ODH Procurements	08-Aug-12	28-Sep-12	7.40	\$573	0.25	\$7,000	\$7,573	\$0	44.00																			
13643245	5 C Line ODH Installation FY12	23-Aug-12	28-Sep-12	5.20	\$2,311	1.36	\$0	\$2,311	\$0	44.00																			
13643245a	5 C Line ODH Installation FY13	01-Oct-12	22-Oct-12	3.20	\$1,467	0.84	\$0	\$1,467	\$0	44.00																			
13643255	Hall D ODH Procurements	08-Aug-12	28-Sep-12	7.40	\$573	0.25	\$18,000	\$18,573	\$0	40.40																			
13643260	Hall D ODH Installation	01-Oct-12	31-Oct-12	4.60	\$5,315	3.10	\$0	\$5,315	\$0	40.40																			
13643270	QA Equipment FY12	10-Sep-12	28-Sep-12	3.00	\$484	0.24	\$0	\$570	\$86	43.20																			
13643270a	QA Equipment FY13	01-Oct-12	26-Oct-12	4.00	\$666	0.31	\$0	\$784	\$118	43.20																			
13643275	Modify PSS Racks FY12	21-Sep-12</																											





Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	
1367015	Mag Instrmntn Testing	16-Apr-12	10-Jul-12	12.00	\$17,560	8.00	\$4,680	\$22,240	\$0	32.60																		
1367020	Mag Instrmntn Implementn FY12	11-Jul-12	28-Sep-12	11.40	\$11,860	6.65	\$0	\$13,010	\$1,150	32.60																		
1367020a	Mag Instrmntn Implementn FY13	01-Oct-12	07-Jan-13	12.60	\$13,527	7.35	\$0	\$14,839	\$1,312	32.60																		
1367020b	Mag Instrmntn Implementn Procurement	11-Jul-12	07-Jan-13	24.00	\$0	0.00	\$14,040	\$14,040	\$0	32.60																		
1367025	Mag Instrmntn Software Implementn & Cmmssng FY12	27-Jun-12	28-Sep-12	13.40	\$12,583	5.26	\$0	\$12,583	\$0	32.60																		
1367025a	Mag Instrmntn Software Implementn & Cmmssng FY13	01-Oct-12	22-Jan-13	14.60	\$14,148	5.74	\$0	\$14,148	\$0	32.60																		
1367030	Magnet Communication New I/O IP design - Labor	01-Feb-13	26-Apr-13	12.00	\$16,167	6.30	\$0	\$16,167	\$0	2.40																		
1367035	Magnet Communication New I/O IP design - Proc.	01-Mar-13	28-Mar-13	4.00	\$3,860	1.70	\$11,000	\$14,860	\$0	2.40																		
1367040	Magnet Communication New I/O IP Fabrication	01-May-13	26-Jun-13	8.00	\$10,930	6.00	\$4,000	\$14,930	\$0	2.40																		
1367045	Magnet Communication New I/O IP Testing	03-Jan-13	28-Jun-13	4.00	\$5,682	2.70	\$0	\$5,682	\$0	2.40																		
1367050	Magnet Communication New I/O IP Installation	01-Jul-13	29-Jul-13	4.00	\$5,682	2.70	\$0	\$5,682	\$0	6.60																		
1367055	Magnet Communication New I/O IP Software -Labor	01-Jul-13	26-Aug-13	8.00	\$8,446	2.90	\$0	\$8,446	\$0	2.40																		
<b>1.4 CONSTRUCTION UPGRADE HALLS A, B, &amp; C</b>		<b>01-Oct-08</b>	<b>30-Mar-15</b>	<b>321.20</b>	<b>\$15,773,822</b>	<b>8669.19</b>	<b>\$44,766,193</b>	<b>\$65,380,365</b>	<b>\$4,840,350</b>	<b>75.20</b>																		
<b>1.4.1 CONSTRUCTION HALL A</b>		<b>01-Oct-08</b>	<b>30-Sep-13</b>	<b>247.80</b>	<b>\$229,084</b>	<b>137.40</b>	<b>\$282,688</b>	<b>\$525,064</b>	<b>\$13,292</b>	<b>19.40</b>																		
<b>1.4.1.3 COMPUTING</b>		<b>01-Oct-08</b>	<b>30-Sep-13</b>	<b>247.80</b>	<b>\$0</b>	<b>0.00</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>19.40</b>																		
<b>1.4.1.3.2 DAQ UPGRADES FOR HRS</b>		<b>01-Oct-08</b>	<b>30-Sep-13</b>	<b>247.80</b>	<b>\$0</b>	<b>0.00</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>19.40</b>																		
14132018	Proc ADCs, TDCs, & (DAQ UPGRADES)	05-Jan-11	28-Apr-11	16.00	\$0	0.00	\$0	\$0	\$0	124.20																		
14132020	Install Electrn's (DAQ UPGRADES)	05-Jan-12	26-Apr-12	15.80	\$0	0.00	\$0	\$0	\$0	90.60																		
14132909LOE	FY09 Proj Admin H-A, All Constrcn (DAQ UPGRADES)	01-Oct-08	30-Sep-09	49.60	\$0	0.00	\$0	\$0	\$0	0.00																		
14132910LOE	FY10 Proj Admin H-A, All Constrcn (DAQ UPGRADES)	01-Oct-09	30-Sep-10	49.60	\$0	0.00	\$0	\$0	\$0	0.00																		
14132911LOE	FY11 Proj Admin H-A, All Constrcn (DAQ UPGRADES)	01-Oct-10	30-Sep-11	49.60	\$0	0.00	\$0	\$0	\$0	0.00																		
14132912LOE	FY12 Proj Admin H-A, All Constrcn (DAQ UPGRADES)	03-Oct-11	28-Sep-12	49.40	\$0	0.00	\$0	\$0	\$0	0.00																		
14132913LOE	FY13 Proj Admin H-A, All Constrcn (DAQ UPGRADES)	01-Oct-12	30-Sep-13	49.60	\$0	0.00	\$0	\$0	\$0	0.00																		
<b>1.4.1.5 BEAMLINE</b>		<b>03-Oct-11</b>	<b>14-Nov-12</b>	<b>56.00</b>	<b>\$229,084</b>	<b>137.40</b>	<b>\$282,688</b>	<b>\$525,064</b>	<b>\$13,292</b>	<b>62.40</b>																		
<b>1.4.1.5.1 MOLLER POLARIMETER</b>		<b>03-Oct-11</b>	<b>14-Nov-12</b>	<b>56.00</b>	<b>\$44,239</b>	<b>21.00</b>	<b>\$96,867</b>	<b>\$146,461</b>	<b>\$5,355</b>	<b>62.40</b>																		
14151000M	Start Moller polarimeter upgrade (MOL POLAR)	03-Oct-11		0.00	\$0	0.00	\$0	\$0	\$0	1.00																		
14151005	Proc Compts - Stands, Magnetic Shield insert,... (MOL POLAR)	07-Dec-11	04-May-12	20.00	\$0	0.00	\$49,503	\$49,503	\$0	1.00																		
14151010	Install Modifications (MOL POLAR) FY12	14-May-12	28-Sep-12	19.40	\$16,010	8.95	\$0	\$19,973	\$3,963	62.40																		
14151010a	Install Modifications (MOL POLAR) FY13	01-Oct-12	14-Nov-12	6.60	\$5,621	3.05	\$0	\$7,012	\$1,391	62.40																		
14151015	Prepare Quadrupole Manufacturing Drawings Package	03-Oct-11	21-Oct-11	3.00	\$5,780	3.00	\$0	\$5,780	\$0	62.60																		
14151020	Quadrupole Procurement prep	24-Oct-11	20-Jan-12	11.20	\$5,610	2.00	\$0	\$5,610	\$0	62.60																		
14151025	Quadrupole Contract Support	23-Jan-12	31-Aug-12	31.40	\$11,219	4.00	\$0	\$11,219	\$0	62.60																		
14151030	Vend Fab Quadrupole	23-Jan-12	31-Aug-12	31.40	\$0	0.00	\$41,276	\$41,276	\$0	62.60																		
14151035	Procure/Refurbish Power Supply for Quadrupole	23-Jan-12	31-Aug-12	31.40	\$0	0.00	\$6,088	\$6,088	\$0	62.60																		
<b>1.4.1.5.2 COMPTON POLARIMETER</b>		<b>03-Oct-11</b>	<b>14-Nov-12</b>	<b>56.00</b>	<b>\$104,369</b>	<b>60.00</b>	<b>\$185,820</b>	<b>\$290,189</b>	<b>\$0</b>	<b>62.40</b>																		
14152000M	Start Compton upgrade (COMP POLAR)	03-Oct-11		0.00	\$0	0.00	\$0	\$0	\$0	18.00																		
14152005	Proc Detector componets (COMP POLAR)	03-Oct-11	02-Feb-12	16.00	\$0	0.00	\$108,670	\$108,670	\$0	62.40																		
14152010	Assemble & Test Detector (COMP POLAR)	03-Feb-12	11-May-12	14.00	\$19,692	12.00	\$0	\$19,692	\$0	62.40																		
14152015	Proc motion sys, Stands & Beam Line (COMP POLAR)	03-Oct-11	04-Jan-12	12.00	\$0	0.00	\$77,150	\$77,150	\$0	18.00																		
14152020	Install & Test (COMP POLAR) FY12	14-May-12	28-Sep-12	19.40	\$62,674	35.82	\$0	\$62,674	\$0	62.40																		
14152025	Install & Test (COMP POLAR) FY13	01-Oct-12	14-Nov-12	6.60	\$22,003	12.18	\$0	\$22,003	\$0	62.40																		
<b>1.4.1.5.3 MAPPING-ARC ENERGY MEASUREMENT</b>		<b>14-May-12</b>	<b>08-Aug-12</b>	<b>12.20</b>	<b>\$80,476</b>	<b>56.40</b>	<b>\$0</b>	<b>\$88,413</b>	<b>\$7,937</b>	<b>76.20</b>																		
14153000M	Start Mapper Constr (MAPPER)	14-May-12		0.00	\$0	0.00	\$0	\$0	\$0	76.20																		
14153010	Calibrate H-A Line Magnets (MAPPER)	14-May-12	07-Aug-12	12.00	\$80,476	56.40	\$0	\$88,413	\$7,937	76.20																		
14153020	Install Mapper & Rebuilt 9th Dipole in Shed (MAPPER)	08-Aug-12	08-Aug-12	0.20	\$0	0.00	\$0	\$0	\$0	76.20																		
<b>1.4.2 CONSTRUCTION HALL B</b>		<b>01-Oct-08</b>	<b>30-Mar-15</b>	<b>321.20</b>	<b>\$10,358,274</b>	<b>6184.51</b>	<b>\$25,310,412</b>	<b>\$39,214,906</b>	<b>\$3,546,220</b>	<b>75.20</b>																		
<b>1.4.2.1 MAGNET</b>		<b>02-Jan-09</b>	<b>30-Sep-13</b>	<b>236.00</b>	<b>\$663,470</b>	<b>338.00</b>	<b>\$3,314,170</b>	<b>\$4,211,602</b>	<b>\$233,962</b>	<b>123.40</b>																		
<b>1.4.2.1.1 TOROIDAL MAGNET</b>		<b>02-Jan-09</b>	<b>30-Sep-13</b>	<b>236.00</b>	<b>\$448,287</b>	<b>217.00</b>	<b>\$2,122,447</b>	<b>\$2,739,651</b>	<b>\$168,917</b>	<b>123.40</b>																		
14211004	Torus Vend Comp Dsgn & Fab FY09 Original Labor Initial	05-Jan-09	31-Aug-09	33.40	\$78,291	39.53	\$0	\$78,291	\$0	128.80																		
14211004A	Torus Vend Comp Dsgn & Fab FY09 Original Labor Final	01-Sep-09	30-Sep-09	4.20	\$9,845	4.97	\$0	\$9,845	\$0	113.20																		
14211004B	Torus Vend Comp Dsgn & Fab FY10 Original Labor	01-Oct-09	29-Dec-09	11.40	\$27,573	13.49	\$0	\$27,573	\$0	113.20																		
14211009E	Torus FY09 Travel	02-Jan-09	30-Sep-09	37.80	\$0	0.00	\$0	\$6,086	\$6,086	0.00																		
14211010	Torus Vend Coil Winding Original Labor FY10	05-Jan-10	30-Sep-10																									



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023		
14211015a	Torus Vend Compts Fab Original Labor FY11	01-Oct-10	29-Dec-10	11.40	\$15,225	7.14	\$0	\$15,225	\$0	112.60																			
14211020	Torus Vend Contract Support Labor FY11	05-Jan-11	30-Sep-11	37.60	\$52,303	24.33	\$0	\$52,303	\$0	112.00																			
14211020a	Torus Vend Contract Support Labor FY12	03-Oct-11	29-Dec-11	11.40	\$16,363	7.38	\$0	\$16,363	\$0	112.00																			
14211025	Torus Delivery Installtn & Check-out Original Labor FY12	05-Jan-12	28-Sep-12	37.40	\$58,362	27.94	\$0	\$162,382	\$104,020	111.40																			
14211025a	Torus Delivery Installtn & Check-out Original Labor FY13	01-Oct-12	21-Dec-12	11.60	\$18,681	8.66	\$0	\$51,973	\$33,292	111.40																			
14211030	Vend Fab Torus - Completion of System Requirements Review (SRR)	04-Sep-09	30-Oct-09	8.00	\$0	0.00	\$112,000	\$112,000	\$0	206.80																			
14211035	Vend Fab Torus - Completion of Preliminary Design Review	04-Sep-09	30-Dec-09	15.20	\$0	0.00	\$274,000	\$274,000	\$0	206.80																			
14211040	Vend Fab Torus - Superconductor Production	04-Sep-09	29-Jan-10	19.20	\$0	0.00	\$262,000	\$262,000	\$0	206.80																			
14211040A	Vend Fab Torus - Superconductor Production Reverse Entry per CR10-044	01-Mar-10	01-Mar-10	0.20	\$0	0.00	(\$262,000)	(\$262,000)	\$0	202.80																			
14211040B	Vend Fab Torus - Superconductor Production Revised Delivery per CR10-044	01-Mar-10	29-Oct-10	34.40	\$0	0.00	\$262,000	\$262,000	\$0	193.80																			
14211040C	Vend Fab Torus - Solder Stabilizer Production	02-Nov-09	29-Apr-11	73.40	\$0	0.00	\$70,000	\$70,000	\$0	193.80																			
14211045	Vend Fab Torus - Completion of Preliminary Design Review and Manufacturing Readine...	04-Sep-09	26-Feb-10	23.00	\$0	0.00	\$324,000	\$324,000	\$0	202.80																			
14211045A	Vend Fab Torus - Completion of Preliminary Design Review and Manufacturing Readine...	01-Mar-10	01-Mar-10	0.20	\$0	0.00	(\$324,000)	(\$324,000)	\$0	202.80																			
14211045B	Vend Fab Torus - Completion of IDR Revised Delivery per CR10-044	01-Mar-10	29-Oct-10	34.40	\$0	0.00	\$108,000	\$108,000	\$0	210.00																			
14211045C	Vend Fab Torus - Completion of FDR Revised Delivery per CR10-044	01-Mar-10	31-Jan-11	45.80	\$0	0.00	\$108,000	\$108,000	\$0	210.00																			
14211045D	Vend Fab Torus - Completion Manufacturing Readiness Review Revised Delivery per CR...	01-Mar-10	31-Jan-11	45.80	\$0	0.00	\$108,000	\$108,000	\$0	210.00																			
14211050	Vend Fab Torus - Design and Construction of Prototype Coil (Full Size)	02-Nov-09	31-Jan-11	60.80	\$0	0.00	\$203,000	\$203,000	\$0	202.80																			
14211050A	Vend Fab Torus - Testing of Prototype Coil (Full Size)	02-Nov-09	31-Mar-11	69.20	\$0	0.00	\$203,000	\$203,000	\$0	202.80																			
14211050Ab	Vend Fab Torus - Stability Model Coil test	02-Nov-09	29-Apr-11	73.40	\$0	0.00	\$55,409	\$55,409	\$0	226.60																			
14211050Ac	Vend Fab Torus - UG&GUG Duties	02-Nov-09	28-Feb-11	64.60	\$0	0.00	\$101,459	\$101,459	\$0	226.60																			
14211050Ad	Vend Fab Torus - Coil Case Plates-Mill run Phase 2 Funding	02-Nov-09	31-Mar-11	69.20	\$0	0.00	\$41,532	\$41,532	\$0	226.60																			
14211050AdA	Vend Fab Torus - Coil Case Plates-Mill run Phase 3 Funding	01-Nov-10	31-Mar-11	19.80	\$0	0.00	\$22,799	\$22,799	\$0	226.60																			
14211051	Vend Fab Torus - Coil Case Plates-CNC machining	01-Nov-10	31-Aug-11	41.20	\$0	0.00	\$56,225	\$56,225	\$0	226.60																			
14211051a	Vend Fab Torus - He tracing Tube - OFHC	01-Nov-10	31-Aug-11	41.20	\$0	0.00	\$16,291	\$16,291	\$0	226.60																			
14211051b	Vend Fab Torus - Torus Vac Vessel Plate-Mill run	01-Nov-10	31-Aug-11	41.20	\$0	0.00	\$125,000	\$125,000	\$0	226.60																			
14211051c	Vend Fab Torus - Nitrogen tracing tube	01-Nov-10	31-Aug-11	41.20	\$0	0.00	\$7,425	\$7,425	\$0	226.60																			
14211051d	Vend Fab Torus - Torus Vac Vessel Plate-CNC machining	01-Nov-10	31-Aug-11	41.20	\$0	0.00	\$100,000	\$100,000	\$0	226.60																			
14211051f	Vend Fab Torus - Torus Coil Hub&Machining	01-Nov-10	31-Aug-11	41.20	\$0	0.00	\$12,260	\$12,260	\$0	226.60																			
14211051g	Vend Fab Torus - Cryogenic Control Valves	01-Nov-10	31-Aug-11	41.20	\$0	0.00	\$40,000	\$40,000	\$0	226.60																			
14211051h	Vend Fab Torus - Current Leads	01-Nov-10	31-Aug-11	41.20	\$0	0.00	\$30,000	\$30,000	\$0	226.60																			
14211051j	Vend Fab Torus - Instrumentation Sensors	01-Nov-10	31-Aug-11	41.20	\$0	0.00	\$50,000	\$50,000	\$0	226.60																			
14211051k	Vend Fab Torus - Dump Switch	01-Nov-10	31-Aug-11	41.20	\$0	0.00	\$50,000	\$50,000	\$0	226.60																			
14211051n	Vend Fab Torus - PLC&Cabinets	01-Nov-10	31-Aug-11	41.20	\$0	0.00	\$12,000	\$12,000	\$0	226.60																			
14211051o	Vend Fab Torus - Cold Mass Suspension Materials	01-Nov-10	31-Aug-11	41.20	\$0	0.00	\$50,000	\$50,000	\$0	226.60																			
14211055	Vend Fab Torus -Complete and Warm Test Coil #1	02-Nov-09	30-Dec-11	106.40	\$0	0.00	\$282,600	\$282,600	\$0	202.80																			
14211060	Vend Fab Torus -Complete and Warm Test Coil #2	02-Nov-09	29-Feb-12	114.40	\$0	0.00	\$235,000	\$235,000	\$0	202.80																			
14211065	Vend Fab Torus -Complete and Warm Test Coil #3	01-Nov-10	29-Feb-12	65.00	\$0	0.00	\$235,000	\$235,000	\$0	202.80																			
14211070	Vend Fab Torus -Complete and Warm Test Coil #4	01-Nov-10	29-Feb-12	65.00	\$0	0.00	\$235,000	\$235,000	\$0	202.80																			
14211075	Vend Fab Torus -Complete and Warm Test Coil #5	01-Nov-10	29-Feb-12	65.00	\$0	0.00	\$235,000	\$235,000	\$0	202.80																			
14211080	Vend Fab Torus -Complete and Warm Test Coil #6	01-Nov-10	29-Feb-12	65.00	\$0	0.00	\$235,000	\$235,000	\$0	202.80																			
14211085	Reverse Entry per CR12-024	03-Feb-12	29-Feb-12	3.60	\$0	0.00	(\$1,847,553)	(\$1,847,553)	\$0	29.80																			
14211090	Wang Torus Settlement	26-Jun-13	30-Sep-13	13.40	\$0	0.00	\$294,000	\$294,000	\$0	123.40																			
<b>1.4.2.1.2 SOLENOID</b>		<b>02-Jan-09</b>	<b>30-Sep-13</b>	<b>236.00</b>	<b>\$215,183</b>	<b>121.00</b>	<b>\$1,191,723</b>	<b>\$1,471,950</b>	<b>\$65,045</b>	<b>123.40</b>																			
14212005	Solenoid Vend Comp Dsgn Labor FY09	05-Jan-09	30-Sep-09	37.60	\$21,547	13.43	\$0	\$21,547	\$0	3.80																			
14212005b	Solenoid Vend Comp Dsgn Labor FY10	01-Oct-09	29-Dec-09	11.40	\$6,741	4.07	\$0	\$6,741	\$0	3.80																			
14212005c	Vend Fab Solenoid Peg Point #1 Completion of System Requirements Review (SSR)	20-Nov-09	30-Dec-09	4.40	\$0	0.00	\$100,000	\$100,000	\$0	202.80																			
14212005d	Vend Fab Solenoid Peg Point #2 Completion of Preliminary Design Review	20-Nov-09	26-Feb-10	12.20	\$0	0.00	\$100,000	\$100,000	\$0	202.80																			
14212005dA	Vend Fab Solenoid Peg Point #2 Completion of Preliminary Design Review Reverse Ent...	01-Mar-10	01-Mar-10	0.20	\$0	0.00	(\$100,000)	(\$100,000)	\$0	202.80																			
14212005dB	Vend Fab Solenoid Peg Point #2 Completion of Preliminary Design Review Revised Deli...	01-Mar-10	31-Aug-10	26.00	\$0	0.00	\$100,000	\$100,000	\$0	203.20																			
14212005f	Vend Fab Solenoid Peg Point #3 Design, Construction and Testing of Prototype Testcoil	20-Nov-09	30-Nov-10	50.60	\$0	0.00	\$200,000	\$200,000	\$0	202.80																			
14212005g	Vend Fab Solenoid Peg Point #4 Intermediate Design Review	20-Nov-09	30-Dec-10	54.00	\$0	0.00	\$200,000	\$200,000	\$0	202.80																			
14212005h	Vend Fab Solenoid Peg Point #5 Final Design Review	20-Nov-09	28-Feb-11	61.80	\$0	0.00	\$200,000	\$200,000	\$0	202.80																			
14212005j	Vend Fab Solenoid Peg Point #6A Manufacturing Readiness Review Phase 1	20-Nov-09	27-May-11	74.60	\$																								





Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023			
14221115a	HBI - Hardware infrastructure: configuring and installing- Labor FY12	03-Oct-11	08-Feb-12	16.80	\$5,543	3.14	\$0	\$5,543	\$0	230.80																				
142211120	HBI - SVT Engineering and Construction Oversight FY11	01-Aug-11	30-Sep-11	8.80	\$18,066	6.60	\$0	\$18,066	\$0	111.80																				
142211125	HBI - SVT Engineering and Construction Oversight FY12	03-Oct-11	28-Sep-12	49.40	\$103,797	36.75	\$0	\$103,797	\$0	111.80																				
142211130	HBI - SVT Engineering and Construction Oversight FY13	01-Oct-12	30-Sep-13	49.60	\$98,361	33.75	\$0	\$98,361	\$0	111.80																				
142211135	HBI - SVT Engineering and Construction Oversight FY14	01-Oct-13	30-Jun-14	36.80	\$73,734	25.30	\$0	\$73,734	\$0	111.80																				
142211140	BST R1-R3 HBI - 1 ASIC: ASIC production: testing, and dicing - Proc	01-Aug-11	08-Feb-12	25.60	\$0	0.00	\$81,164	\$81,164	\$0	79.60																				
142211145	BST R1-R3 HBI - 2 Sensors: Sensors received and inspected by JLab (1st article and pr...	01-Aug-11	30-Sep-11	8.80	\$9,777	4.20	\$0	\$9,777	\$0	47.80																				
142211145a	BST R1-R3 HBI - 2 Sensors: Sensors received and inspected by JLab (1st article and pr...	03-Oct-11	28-Sep-12	49.40	\$56,635	23.60	\$0	\$56,635	\$0	47.80																				
142211145aa	BST R1-R3 HBI - 2 Sensors: Sensors received and inspected by JLab (1st article and pr...	01-Oct-12	31-Oct-12	4.60	\$5,442	2.20	\$0	\$5,442	\$0	47.80																				
142211150	BST R1-R3 HBI - 2 Sensors: Sensors shipped to FNAL (1st article)	05-Aug-11	02-Sep-11	4.20	\$3,446	2.00	\$0	\$3,446	\$0	47.80																				
142211155	BST FNAL - Contract Preparations	01-Aug-11	29-Sep-11	8.60	\$21,890	8.00	\$0	\$21,890	\$0	47.80																				
142211158M	BST FNAL - 1st article & production SOW Agreement signed (milestone)	01-Sep-11		0.00	\$0	0.00	\$0	\$0	\$0	47.80																				
142211160	FNAL/Jlab/MSU Testing of 1st article sensors	01-Sep-11	30-Dec-11	15.80	\$0	0.00	\$5,495	\$5,495	\$0	47.80																				
142211160a	FNAL Module Design Review	01-Sep-11	31-Oct-11	8.40	\$0	0.00	\$5,495	\$5,495	\$0	47.80																				
142211160b	FNAL Module Design Report & Recommendations	01-Sep-11	31-Oct-11	8.40	\$0	0.00	\$5,495	\$5,495	\$0	47.80																				
142211160c	FNAL/Jlab Develop Module Construction, Assembly, & QA/QC procedures	01-Sep-11	30-Nov-11	12.40	\$0	0.00	\$8,702	\$8,702	\$0	47.80																				
142211160d	FNAL Construction & Testing (FNAL/Jlab) of 1st article electrical grade modules	01-Sep-11	30-Nov-11	12.40	\$0	0.00	\$72,002	\$72,002	\$0	47.80																				
142211160f	FNAL Design of Assembly Fixtures (6.5 months)	01-Sep-11	28-Sep-12	53.60	\$0	0.00	\$37,130	\$37,130	\$0	47.80																				
142211160g	FNAL Receive & test (Jlab/FNAL) R1-R3 Production Sensors (4 batches) Part A	01-Sep-11	31-Dec-12	65.40	\$0	0.00	\$61,681	\$61,681	\$0	49.80																				
142211160h	FNAL Receive & test (Jlab/FNAL) R1-R3 Production Sensors (4 batches) Part B	31-Jan-12	31-Dec-12	45.80	\$0	0.00	\$2,601	\$2,601	\$0	47.60																				
142211160j	FNAL QA/QC and Assembly of Fixtures	31-Jan-12	31-Jan-13	50.00	\$0	0.00	\$42,294	\$42,294	\$0	47.60																				
142211160k	FNAL Construction of 1st article (mechanical grade) modules	31-Jan-12	31-Jan-13	50.00	\$0	0.00	\$91,472	\$91,472	\$0	47.60																				
142211160n	FNAL design and construct module shipping containers	31-Jan-12	31-Jan-13	50.00	\$0	0.00	\$21,100	\$21,100	\$0	47.60																				
142211160p	FNAL/Jlab/MSU Testing of 1st article (mechanical grade) modules	31-Jan-12	31-Jan-13	50.00	\$0	0.00	\$11,528	\$11,528	\$0	47.60																				
142211160q	FNAL/Jlab review of module testing	31-Jan-12	31-Jan-13	50.00	\$0	0.00	\$22,248	\$22,248	\$0	47.60																				
142211160r	FNAL/Jlab revise module construction & assembly & QA/QC procedures	31-Jan-12	31-Jan-13	50.00	\$0	0.00	\$5,764	\$5,764	\$0	47.60																				
142211160s	FNAL QA/QC and assembly of production fixtures	31-Jan-12	31-Jan-13	50.00	\$0	0.00	\$38,853	\$38,853	\$0	47.60																				
142211160t	FNAL Construction and test (Jlab/FNAL) of R1-R3 production modules (60 modules) Par...	31-Jan-12	30-Sep-13	83.60	\$0	0.00	\$22,828	\$22,828	\$0	47.60																				
142211160u	FNAL Construction and test (Jlab/FNAL) of R1-R3 production modules (60 modules) Par...	01-Nov-12	30-Sep-13	45.00	\$0	0.00	\$222,139	\$222,139	\$0	47.60																				
142211160v	FNAL Receive & test (Jlab/FNAL) R4 Production Sensors (3 batches)	01-Nov-12	29-Mar-13	19.40	\$0	0.00	\$1,105	\$1,105	\$0	43.60																				
142211160w	FNAL Construction and test (Jlab/FNAL) of R4 production modules (21 modules)	01-Nov-12	31-Jan-14	61.00	\$0	0.00	\$110,088	\$110,088	\$0	43.60																				
142211165	BST R1-R3 HBI - 3: Modules: DAQ development front end electronics (1st article) - Lab...	01-Aug-11	30-Sep-11	8.80	\$23,377	8.54	\$0	\$23,377	\$0	47.60																				
142211165a	BST R1-R3 HBI - 3: Modules: DAQ development front end electronics (1st article) - Lab...	03-Oct-11	30-May-12	32.40	\$88,814	31.46	\$0	\$88,814	\$0	47.60																				
142211170	BST R1-R3 HBI - 4: DAQ: 1st article software - Labor FY11	01-Aug-11	30-Sep-11	8.80	\$17,705	6.47	\$0	\$17,705	\$0	47.60																				
142211170a	BST R1-R3 HBI - 4: DAQ: 1st article software - Labor FY12	03-Oct-11	25-May-12	32.00	\$66,433	23.53	\$0	\$66,433	\$0	47.60																				
142211175	BST R1-R3 HBI - 4: DAQ: readout card 1st article - Proc	29-May-12	29-Jun-12	4.60	\$0	0.00	\$30,957	\$30,957	\$0	47.60																				
142211180	BST R1-R3 HBI - 4: DAQ: readout card R1 R2 R3 - Proc	02-Jul-12	30-Jul-12	4.20	\$0	0.00	\$18,574	\$18,574	\$0	47.60																				
142211185	BST R1-R3 HBI - 5 Electronics: Pitch Adapter - Proc (Full set for 1st article, R1-R3, R4)	01-Aug-11	08-Feb-12	25.60	\$0	0.00	\$21,683	\$21,683	\$0	47.60																				
142211190	BST R1-R3 HBI - 5 Electronics: HFCB validation tests (1st article) - Proc	01-Aug-11	08-Feb-12	25.60	\$0	0.00	\$18,543	\$18,543	\$0	79.60																				
142211195	BST R1-R3 HBI - 6: Cable assemblies: HV, LV, and data (1) specifications and procure...	01-Aug-11	30-Sep-11	8.80	\$3,325	1.49	\$0	\$3,325	\$0	97.80																				
142211195a	BST R1-R3 HBI - 6: Cable assemblies: HV, LV, and data (1) specifications and procure...	03-Oct-11	21-Oct-11	3.00	\$1,170	0.51	\$0	\$1,170	\$0	97.80																				
142211200	BST R1-R3 HBI - 6: Cable assemblies: HV, LV, and data (3) assemble components for ...	24-Oct-11	27-Jan-12	12.20	\$7,061	4.00	\$0	\$7,061	\$0	97.80																				
142211205	BST R1-R3 HBI - 6: Cable assemblies: HV, LV, and data (4) 1st article - Proc	24-Oct-11	27-Jan-12	12.20	\$0	0.00	\$21,760	\$21,760	\$0	97.80																				
142211210	BST R1-R3 HBI - 6: Cable assemblies: HV, LV, and data (5) 1st article testing - Labor	30-Apr-12	30-Jul-12	12.80	\$7,061	4.00	\$0	\$7,061	\$0	85.00																				
142211215	BST R1-R3 HBI - 7 Sloco: HV, LV, PS (1) module components and crates specs and pr...	01-Aug-11	30-Sep-11	8.80	\$1,532	0.69	\$0	\$1,532	\$0	45.80																				
142211215a	BST R1-R3 HBI - 7 Sloco: HV, LV, PS (1) module components and crates specs and pr...	03-Oct-11	08-Feb-12	16.80	\$3,019	1.31	\$0	\$3,019	\$0	45.80																				
142211220	BST R1-R3 HBI - 7 Sloco: HV, LV, PS (2) modules 1st article - Proc	09-May-12	09-Aug-12	13.00	\$0	0.00	\$29,469	\$29,469	\$0	33.20																				
142211225	BST R1-R3 HBI - 7 Sloco: HV, LV, PS (3) modules components: 1st article testing - Labor	10-Aug-12	24-Sep-12	6.20	\$9,883	5.00	\$0	\$9,883	\$0	33.20																				
142211230	BST R1-R3 HBI - 7 Sloco: HV, LV, PS (4) crates - Proc (1st Articles and Production)	10-Aug-12	24-Sep-12	6.20	\$0	0.00	\$35,660	\$35,660	\$0	57.20																				
142211235	BST R1-R3 HBI - 8 DAQ: VME: (1) specification and procurement preparation - Labor	01-Aug-11	31-Aug-11	4.60	\$4,458	2.00	\$0	\$4,458	\$0	88.60																				
142211240	BST R1-R3 HBI - 8 DAQ: VME: (																													







Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023	
142213067	ODU Contract Peg Point #8 String and Test all wires on RII chamber #6	02-Jul-12	31-Jan-13	28.80	\$0	0.00	\$40,915	\$40,915	\$0	91.60																		
142213068	ODU Contract Peg Point #9 Five RII Chambers fully tested	02-Jul-12	29-Mar-13	36.80	\$0	0.00	\$14,784	\$14,784	\$0	91.60																		
142213069	ODU Contract Peg Point #10 Ship Final chamber to JLab	02-Jul-12	30-Apr-13	41.20	\$0	0.00	\$0	\$0	\$0	91.60																		
142213070	ISU Contract Preparations FY10	01-Jun-10	30-Sep-10	17.20	\$2,023	6.10	\$0	\$2,023	\$0	78.80																		
142213070a	ISU Contract Preparations FY11	01-Oct-10	04-Oct-10	0.40	\$49	0.14	\$0	\$49	\$0	78.80																		
142213075	ISU Contract Phase 1a - Hire lead stringer, complete cleanroom, Readiness Review	05-Oct-10	28-Feb-11	19.00	\$0	0.00	\$127,254	\$127,254	\$0	78.80																		
142213080	ISU Contract Phase 1b - Hire and train first 2 stringers, install and tension chamber 2	11-Apr-11	31-Oct-11	28.60	\$0	0.00	\$37,746	\$37,746	\$0	78.80																		
142213085	ISU Contract Phase 1c - Hire and train last 2 stringers, string wires and test chamber 2	03-Oct-11	29-Feb-12	19.60	\$0	0.00	\$69,570	\$69,570	\$0	78.80																		
142213087	ISU Contract Phase 2 - Install, tension, string wires and test chamber 3	11-Jan-12	31-Jul-12	28.20	\$0	0.00	\$72,001	\$72,001	\$0	78.80																		
142213089	ISU Contract Phase 3 - Install, tension, string wires and test chamber 4	11-Jan-12	31-Aug-12	32.80	\$0	0.00	\$133,386	\$133,386	\$0	78.80																		
142213090	ISU Contract Phase 4a - Install and tension chamber 5	12-Jul-12	28-Sep-12	11.20	\$0	0.00	\$30,000	\$30,000	\$0	78.80																		
142213092	ISU Contract Phase 4b - String wires and test chamber 5	01-Oct-12	31-Jan-13	16.00	\$0	0.00	\$42,001	\$42,001	\$0	78.80																		
142213095	ISU Contract Phase 5a - Install and tension chamber 6	12-Jul-12	28-Sep-12	11.20	\$0	0.00	\$33,346	\$33,346	\$0	78.80																		
142213097	ISU Contract Phase 5b - String wires and test chamber 6	01-Oct-12	28-Feb-13	19.80	\$0	0.00	\$100,040	\$100,040	\$0	78.80																		
142213100	ISU Contract Phase 6 - Ship chambers, fixtures and equipment to JLab	01-Oct-12	31-Jul-13	41.20	\$0	0.00	\$27,939	\$27,939	\$0	78.80																		
142213100M	P-#2 Construction Start P-#2	01-Oct-09		0.00	\$0	0.00	\$0	\$0	\$0	93.40																		
142213117	P-#2 Proc Endplates & Frames LABOR Initial	29-Oct-09	25-Jun-10	32.20	\$23,374	15.00	\$0	\$23,374	\$0	54.40																		
142213117B	P-#2 Proc Endplates & Frames LABOR Final FY10	28-Jun-10	30-Sep-10	13.40	\$5,631	2.83	\$0	\$5,631	\$0	54.40																		
142213117Ba	P-#2 Proc Endplates & Frames LABOR Final FY11	01-Oct-10	30-Sep-11	49.60	\$21,510	10.47	\$0	\$21,510	\$0	54.40																		
142213117Bb	P-#2 Proc Endplates & Frames LABOR Final FY12	03-Oct-11	01-Aug-12	41.20	\$18,438	8.70	\$0	\$18,438	\$0	54.40																		
142213117P	P-#2 Proc Frames/Endplates	06-Nov-09	22-Apr-10	22.00	\$0	0.00	\$225,986	\$225,986	\$0	93.40																		
142213120	P-#2 Proc Box Assy. Fixtures LABOR	08-Dec-09	11-Mar-10	12.00	\$15,026	9.00	\$0	\$15,026	\$0	99.40																		
142213120P	P-#2 Proc Box Assy. Fixtures	14-Jan-10	04-Mar-10	6.80	\$0	0.00	\$87,299	\$87,299	\$0	100.40																		
142213122	P-#2 Proc Wires, Pins and Feedthroughs LABOR	01-Oct-09	31-Mar-10	24.00	\$334	2.20	\$0	\$334	\$0	132.80																		
142213122P	P-#2 Proc Wires, Pins and Feedthroughs	15-Oct-09	02-Feb-10	14.00	\$0	0.00	\$10,319	\$10,319	\$0	140.80																		
142213130	P-#2 Proc Circuit Boards LABOR	04-Mar-10	30-Sep-10	29.60	\$1,658	1.00	\$0	\$1,658	\$0	107.20																		
142213130P	P-#2 Proc Circuit Boards Initial	25-Mar-10	30-Jun-10	13.80	\$0	0.00	\$54,311	\$54,311	\$0	107.20																		
142213130Pb	P-#2 Proc Circuit Boards Final	01-Jul-10	30-Sep-10	12.80	\$0	0.00	\$80,000	\$80,000	\$0	107.20																		
142213132	P-#2 Build Boxes and Associated Hardware Part A	01-Oct-10	28-Feb-11	19.40	\$92,219	53.87	\$0	\$132,053	\$39,834	71.00																		
142213133	P-#2 Build Boxes and Associated Hardware Part B (Frozen by Administrative CR 11-38)	01-Mar-11	29-Apr-11	8.80	\$22,661	13.07	\$0	\$25,180	\$2,520	174.60																		
142213133a	Reverse Entry per Administrative CR 11-38	02-May-11	06-May-11	1.00	(\$22,661)	-13.07	\$0	(\$25,180)	(\$2,520)	20.40																		
142213133b	P-#2 Build Boxes and Associated Hardware Part B FY11 (Revised by Administrative CR ...)	02-May-11	30-Sep-11	21.40	\$15,296	8.94	\$0	\$21,903	\$6,607	62.20																		
142213133c	P-#2 Build Boxes and Associated Hardware Part B FY12 (Revised by Administrative CR ...)	03-Oct-11	28-Sep-12	49.40	\$36,433	20.63	\$0	\$52,172	\$15,739	62.20																		
142213133Ca	P-#2 Build Boxes and Associated Hardware Part B FY13	01-Oct-12	02-Aug-13	41.60	\$31,661	17.37	\$0	\$45,338	\$13,677	62.20																		
142213135	P-#2 Build Stringing Fixtures, Machines and Platforms	01-Oct-09	28-May-10	32.40	\$36,752	18.13	\$0	\$74,756	\$38,004	124.40																		
142213135P	P-#2 Proc Cleanroom Fixtures and Equipment	08-Dec-09	11-Mar-10	12.00	\$0	0.00	\$145,704	\$145,704	\$0	135.60																		
142213142	P-#2 String Chambers Part A	07-Dec-10	28-Feb-11	10.40	\$15,054	8.74	\$0	\$59,121	\$44,067	98.20																		
142213144	P-#2 String Chambers Part B FY11	01-Mar-11	30-Sep-11	30.20	\$22,606	13.12	\$0	\$102,741	\$80,135	98.20																		
142213144a	P-#2 String Chambers Part B FY12	03-Oct-11	30-Apr-12	28.20	\$21,780	12.25	\$0	\$98,996	\$77,216	98.20																		
142213200M	P-#3 Construction Start P-#3	01-Oct-10		0.00	\$0	0.00	\$0	\$0	\$0	95.80																		
142213217P	P-#3 Proc Frames/Endplates	11-May-10	28-Feb-11	39.20	\$0	0.00	\$105,614	\$105,614	\$0	162.50																		
142213220	P-#3 Proc Box Assy. Fixtures LABOR	01-Oct-10	18-Nov-10	7.00	\$3,559	2.00	\$0	\$3,559	\$0	212.00																		
142213220P	P-#3 Proc Box Assy. Fixtures	03-Nov-10	16-Dec-10	6.00	\$0	0.00	\$29,925	\$29,925	\$0	171.20																		
142213222	P-#3 Proc Wires, Pins and Feedthroughs LABOR	01-Oct-10	14-Apr-11	26.00	\$5,990	3.90	\$0	\$5,990	\$0	150.00																		
142213222P	P-#3 Proc Wires, Pins and Feedthroughs	01-Oct-10	16-Feb-11	18.00	\$0	0.00	\$10,319	\$10,319	\$0	158.00																		
142213230	P-#3 Proc Circuit Boards LABOR	01-Oct-10	16-Feb-11	18.00	\$1,723	4.60	\$0	\$1,723	\$0	158.00																		
142213230P	P-#3 Proc Circuit Boards	01-Oct-10	29-Jun-12	86.20	\$0	0.00	\$82,552	\$82,552	\$0	95.80																		
142213232	P-#3 Build Boxes and Associated Hardware FY12	03-Oct-11	28-Sep-12	49.40	\$12,813	5.72	\$0	\$12,813	\$0	132.20																		
142213232a	P-#3 Build Boxes and Associated Hardware FY13	01-Oct-12	31-Dec-12	11.80	\$3,158	1.37	\$0	\$3,158	\$0	132.20																		
142213235	P-#3 Build Stringing Fixtures, Machines and Platforms FY11	04-Mar-11	30-Sep-11	29.60	\$29,922	14.74	\$0	\$29,922	\$0	156.20																		
142213235a	P-#3 Build Stringing Fixtures, Machines and Platforms FY12	03-Oct-11	29-Feb-12	19.60	\$20,446	9.76	\$0	\$20,446	\$0	156.20																		
142213235P	P-#3 Proc Cleanroom Fixtures and Equipment	03-Oct-11	28-Sep-12	49.40	\$0	0.00	\$87,528	\$87,528	\$0	126.40																		
142213242	P-#3 String Chambers FY12	17-May-12	28-Sep-12	18.80	\$28,235	15.88	\$0	\$167,388	\$139,154	95.80																		



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
142213320P	P-#4 Proc Box Assy. Fixtures	03-Oct-11	30-Apr-12	28.20	\$0	0.00	\$110	\$110	\$0	141.20																			
142213322	P-#4 Proc Wires, Pins and Feedthroughs LABOR	03-Oct-11	13-Apr-12	26.00	\$356	0.20	\$0	\$356	\$0	143.40																			
142213322P	P-#4 Proc Wires, Pins and Feedthroughs	03-Oct-11	16-Feb-12	18.00	\$0	0.00	\$110	\$110	\$0	151.40																			
142213330	P-#4 Proc Circuit Boards LABOR	03-Oct-11	31-Oct-11	4.20	\$83	0.89	\$0	\$83	\$0	100.00																			
142213330a	P-#4 Proc Circuit Boards LABOR Revised FY12	05-Jan-12	28-Sep-12	37.40	\$66,336	40.34	\$0	\$66,336	\$0	70.40																			
142213330b	P-#4 Proc Circuit Boards LABOR Revised FY13	01-Oct-12	30-Sep-13	49.60	\$41,132	22.58	\$0	\$41,132	\$0	70.40																			
142213330P	P-#4 Proc Circuit Boards	03-Oct-11	31-Jul-12	41.00	\$0	0.00	\$179,466	\$179,466	\$0	54.80																			
142213330PA	P-#5 Proc Circuit Boards	01-Oct-12	29-May-13	32.40	\$0	0.00	\$185,191	\$185,191	\$0	46.40																			
142213332	P-#4 Build Boxes and Associated Hardware FY12	02-Aug-12	28-Sep-12	8.20	\$874	0.38	\$0	\$874	\$0	54.40																			
142213332a	P-#4 Build Boxes and Associated Hardware FY13	01-Oct-12	02-Oct-12	0.40	\$44	0.02	\$0	\$44	\$0	54.40																			
142213335	P-#4 Build Stringing Fixtures, Machines and Platforms	03-Oct-11	28-Sep-12	49.40	\$356	0.20	\$0	\$356	\$0	104.20																			
142213335P	P-#4 Proc Cleanroom Fixtures and Equipment Part A	02-Apr-12	28-Sep-12	25.40	\$0	0.00	\$23,889	\$23,889	\$0	54.80																			
142213335Pa	P-#4 Proc Cleanroom Fixtures and Equipment Part B	01-Oct-12	27-Sep-13	49.40	\$0	0.00	\$41,276	\$41,276	\$0	54.80																			
142213342	P-#4 String Chambers	30-Nov-12	25-Nov-13	49.20	\$66,644	36.33	\$0	\$439,024	\$372,381	46.40																			
142213347	P-#5 String Chambers	26-Nov-13	31-Mar-14	16.00	\$26,474	14.43	\$0	\$251,134	\$224,660	46.40																			
14221335M	Chambers Complete	31-Mar-14	0.00	0.00	\$0	0.00	\$0	\$0	\$0	46.40																			
<b>1.4.2.2.2 CALORIMETRY</b>		<b>01-Oct-09</b>	<b>10-Oct-13</b>	<b>199.80</b>	<b>\$814,618</b>	<b>797.42</b>	<b>\$925,719</b>	<b>\$1,781,550</b>	<b>\$41,214</b>	<b>147.00</b>																			
<b>1.4.2.2.2.3 FORWARD CALORIMETER</b>		<b>01-Oct-09</b>	<b>10-Oct-13</b>	<b>199.80</b>	<b>\$814,618</b>	<b>797.42</b>	<b>\$925,719</b>	<b>\$1,781,550</b>	<b>\$41,214</b>	<b>147.00</b>																			
142223000M	EC-P-#1 Constr Start (FWD CAL)	01-Oct-09		0.00	\$0	0.00	\$0	\$0	\$0	187.00																			
142223005	EC-P-#1 Prcmnt Prep for Assy box (FWD CAL)	01-Oct-09	28-Oct-09	4.00	\$12,105	6.00	\$0	\$12,105	\$0	187.00																			
142223010	EC-P-#1 Prcmnt Prep for Wave Shifting Fibers (FWD CAL)	01-Oct-09	28-Oct-09	4.00	\$0	0.00	\$0	\$0	\$0	187.00																			
142223012	EC-P-#1 Vend Fab of Wave Shifting Fibers (FWD CAL)	05-Jan-10	13-Sep-10	35.00	\$1,326	0.50	\$866	\$2,193	\$0	179.00																			
142223015	EC-P-#1 Prcmnt Prep for PMTs (FWD CAL)	01-Oct-09	28-Oct-09	4.00	\$0	0.00	\$0	\$0	\$0	232.00																			
142223017	EC-P-#1 Vend Fab of PMTs (FWD CAL)	05-Jan-10	01-Jul-10	25.00	\$26,008	13.50	\$0	\$26,008	\$0	224.00																			
142223020	EC-P-#1 Prcmnt Prep for Light Guides & Accessr's (FWD CAL)	01-Oct-09	28-Oct-09	4.00	\$0	0.00	\$0	\$0	\$0	241.00																			
142223022	EC-P-#1 Vend Fab of Light Guides & Accessr's (FWD CAL)	05-Jan-10	28-Apr-10	16.00	\$1,326	0.50	\$63,510	\$64,836	\$0	233.00																			
142223037	EC-P-#2 Vend Fab of Wave Shifting Fibers (FWD CAL)	05-Jan-11	13-Sep-11	35.00	\$1,369	0.50	\$124,722	\$126,091	\$0	164.40																			
142223100M	PCAL Manufacturing Preparation - Milestone	01-Apr-10		0.00	\$0	0.00	\$0	\$0	\$0	174.80																			
142223105	Scintillator Procurement	01-Apr-10	02-Jul-10	13.20	\$0	0.00	\$97,807	\$97,807	\$0	174.80																			
142223110	W&M - Prepare workspace	06-May-10	20-May-10	2.20	\$0	0.00	\$0	\$0	\$0	174.80																			
142223115	Scintillator Processing	21-May-10	27-Sep-10	17.80	\$5,009	3.00	\$0	\$5,009	\$0	174.80																			
142223120	W&M NSF - Fiber procurement	02-Jun-10	11-Jul-11	55.00	\$0	0.00	\$0	\$0	\$0	173.40																			
142223185	Complete Manufacturing Drawings for Box Assy	15-Apr-10	01-Jun-10	6.60	\$9,055	7.57	\$0	\$9,055	\$0	95.20																			
142223186	Issue PRs and Review Bids	02-Jun-10	30-Jun-10	4.20	\$7,280	4.00	\$0	\$7,280	\$0	95.20																			
142223190	Procurement of retainers and PMT supports	01-Oct-10	14-Apr-11	26.00	\$0	0.00	\$123,828	\$123,828	\$0	95.20																			
142223191	Procurement of box sidewalls	01-Oct-10	14-Apr-11	26.00	\$0	0.00	\$154,785	\$154,785	\$0	95.20																			
142223192	Procurement of box windows	01-Oct-10	14-Apr-11	26.00	\$0	0.00	\$92,871	\$92,871	\$0	95.20																			
142223193	Procurement of lead sheets	14-May-10	03-Jan-12	80.80	\$0	0.00	\$90,000	\$90,000	\$0	106.80																			
142223194	FCAL Prepare EEL 125 Room & Floors	01-Jul-10	30-Sep-10	12.80	\$40,004	23.96	\$0	\$40,004	\$0	95.20																			
142223195	Prepare workspace	03-May-10	01-Jun-10	4.20	\$9,983	19.00	\$0	\$9,983	\$0	120.60																			
142223200	Prepare Components Module 1 FY10	02-Sep-10	30-Sep-10	4.00	\$3,151	8.56	\$0	\$5,928	\$2,778	95.20																			
142223200a	Prepare Components Module 1 FY11	01-Oct-10	22-Oct-10	3.20	\$2,601	6.84	\$0	\$4,894	\$2,293	95.20																			
142223205	Assembly of box 1	25-Oct-10	05-Nov-10	2.00	\$5,358	15.00	\$0	\$5,358	\$0	95.20																			
142223210	Stacking #1	08-Nov-10	21-Jan-11	9.20	\$30,561	32.00	\$0	\$30,561	\$0	95.20																			
142223215	Close Module 1	24-Jan-11	28-Jan-11	1.00	\$2,886	4.00	\$0	\$2,886	\$0	95.20																			
142223220	Prepare Components Module 2	31-Jan-11	11-Feb-11	2.00	\$5,358	7.00	\$0	\$10,517	\$5,160	95.20																			
142223225	Assembly of box 2	14-Feb-11	28-Feb-11	2.00	\$5,771	7.00	\$0	\$5,771	\$0	95.20																			
142223230	Stacking #2	01-Mar-11	03-May-11	9.20	\$32,216	28.00	\$0	\$32,216	\$0	95.20																			
142223232	ETC Revision of Stacking #2	01-Nov-11	30-Dec-11	7.40	\$17,053	15.00	\$0	\$17,053	\$0	95.20																			
142223235	Close Module 2	04-May-11	11-May-11	1.20	\$3,380	4.40	\$0	\$3,380	\$0	95.20																			
142223240	Prepare Components Module 3	19-May-11	02-Jun-11	2.00	\$5,358	6.50	\$0	\$10,517	\$5,160	95.20																			
142223245	Assembly of box 3	03-Jun-11	16-Jun-11	2.00	\$5,358	6.00	\$0	\$5,358	\$0	95.20																			
142223250	Stacking #3	17-Jun-11	22-Aug-11	9.20	\$31,802	27.00	\$0	\$31,802	\$0	95.20																			
142223252	ETC Revision of Stacking #3	09-Jan-12	14-Mar-12	9.20	\$17,053	15.00	\$0	\$17,053	\$0	100.60																			

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023	
142223265a	Assembly of box 4 FY12	03-Oct-11	07-Oct-11	1.00	\$2,745	2.91	\$0	\$2,745	\$0	95.20																		
142223270	Stacking #4	10-Oct-11	31-Oct-11	3.20	\$11,267	9.04	\$0	\$11,267	\$0	95.20																		
142223272	Stacking #4 Revised	12-Jul-12	22-Aug-12	6.00	\$38,171	31.95	\$0	\$38,171	\$0	61.20																		
142223275	Close Module 4	23-Aug-12	30-Aug-12	1.20	\$3,488	4.40	\$0	\$3,488	\$0	61.20																		
142223280	Prepare Components Module 5	09-Jan-12	24-Jan-12	2.20	\$6,039	6.90	\$0	\$11,363	\$5,324	61.20																		
142223285	Assembly of box 5 FY12	25-Sep-12	28-Sep-12	0.80	\$2,196	2.33	\$0	\$2,196	\$0	61.20																		
142223285a	Assembly of box 5 FY13	01-Oct-12	09-Oct-12	1.40	\$3,966	4.07	\$0	\$3,966	\$0	61.20																		
142223290	Stacking #5	07-Dec-12	20-Feb-13	9.20	\$51,023	41.00	\$0	\$51,023	\$0	61.20																		
142223295	Close Module 5	21-Feb-13	28-Feb-13	1.20	\$3,599	4.40	\$0	\$3,599	\$0	61.20																		
142223300	Prepare Components Module 6	24-Apr-12	08-May-12	2.20	\$6,039	6.90	\$0	\$11,363	\$5,324	70.00																		
142223305	Assembly of box 6	01-Mar-13	15-Mar-13	2.20	\$6,232	6.40	\$0	\$6,232	\$0	64.20																		
142223310	Stacking #6	18-Mar-13	20-May-13	9.20	\$50,671	40.20	\$0	\$50,671	\$0	64.20																		
142223315	Close Module 6	21-May-13	29-May-13	1.20	\$3,599	4.24	\$0	\$3,599	\$0	64.20																		
142223316	JMU PMT and Divider assembly and test	03-Jun-10	03-Jan-12	78.20	\$0	0.00	\$0	\$0	\$0	112.80																		
142223317	Fiber Polisher FY10	03-Sep-10	30-Sep-10	3.80	\$0	0.00	\$0	\$9,500	\$9,500	114.80																		
142223317a	Fiber Polisher FY11	01-Oct-10	01-Oct-10	0.20	\$0	0.00	\$0	\$516	\$516	114.80																		
142223318	Procurement- PMT Housing Components	03-May-10	06-Jan-11	33.60	\$0	0.00	\$40,000	\$40,000	\$0	112.80																		
142223319	WLS Fibers final set procurement	05-Jan-12	30-Apr-12	16.20	\$0	0.00	\$58,000	\$58,000	\$0	133.60																		
142223320	Prepare workspace	30-Jun-10	12-Aug-10	6.20	\$10,879	21.30	\$0	\$10,879	\$0	120.60																		
142223325	Setup module1	31-Jan-11	07-Feb-11	1.20	\$2,346	3.80	\$0	\$2,346	\$0	98.40																		
142223330	Prepare components	08-Feb-11	23-Feb-11	2.20	\$3,957	5.30	\$0	\$3,957	\$0	98.40																		
142223335	Fiber/PMT assembly Module #1	24-Feb-11	07-Apr-11	6.20	\$19,389	18.40	\$0	\$19,389	\$0	98.40																		
142223337	ETC Revision of Fiber/PMT assembly Module #1	02-Dec-11	24-Jan-12	6.20	\$14,158	12.40	\$0	\$14,158	\$0	98.40																		
142223340	Prepare #1 for test	08-Apr-11	22-Apr-11	2.20	\$2,062	4.20	\$0	\$2,062	\$0	98.40																		
142223345	Testing #1	25-Apr-11	09-May-11	2.20	\$6,440	6.60	\$0	\$6,440	\$0	98.40																		
142223350	Disassemble #1	10-May-11	17-May-11	1.20	\$1,313	3.20	\$0	\$1,313	\$0	98.40																		
142223355	Move #1 to storage	18-May-11	19-May-11	0.40	\$689	0.40	\$0	\$689	\$0	98.40																		
142223360	Setup module2	20-May-11	27-May-11	1.20	\$2,346	3.80	\$0	\$2,346	\$0	98.40																		
142223365	Prepare components	31-May-11	14-Jun-11	2.20	\$3,957	5.30	\$0	\$3,957	\$0	98.40																		
142223370	Fiber/PMT assembly Module #2	15-Jun-11	28-Jul-11	6.20	\$19,389	18.40	\$0	\$19,389	\$0	98.40																		
142223372	ETC Revision of Fiber/PMT assembly Module #2	02-Apr-12	14-May-12	6.20	\$9,663	10.40	\$0	\$9,663	\$0	98.40																		
142223375	Prepare #2 for test	29-Jul-11	12-Aug-11	2.20	\$2,062	5.20	\$0	\$2,062	\$0	98.40																		
142223380	Testing #2	15-Aug-11	29-Aug-11	2.20	\$6,440	6.60	\$0	\$6,440	\$0	98.40																		
142223385	Disassemble #2	30-Aug-11	07-Sep-11	1.20	\$1,313	3.20	\$0	\$1,313	\$0	98.40																		
142223390	Move #2 to storage	08-Sep-11	09-Sep-11	0.40	\$689	0.40	\$0	\$689	\$0	98.40																		
142223395	Setup module3	12-Sep-11	19-Sep-11	1.20	\$2,346	3.80	\$0	\$2,346	\$0	98.40																		
142223400	Prepare components FY11	20-Sep-11	30-Sep-11	1.80	\$3,238	4.34	\$0	\$3,238	\$0	98.40																		
142223400a	Prepare components FY12	03-Oct-11	04-Oct-11	0.40	\$742	0.96	\$0	\$742	\$0	98.40																		
142223405	Fiber/PMT assembly Module #3	05-Oct-11	31-Oct-11	3.80	\$12,264	11.28	\$0	\$12,264	\$0	98.40																		
142223407	Fiber/PMT assembly Revised Module #3	23-Jul-12	04-Sep-12	6.20	\$17,409	17.52	\$0	\$17,409	\$0	63.00																		
142223410	Prepare #3 for test	05-Sep-12	19-Sep-12	2.20	\$2,128	4.20	\$0	\$2,128	\$0	63.00																		
142223415	Testing #3 FY12	20-Sep-12	28-Sep-12	1.40	\$4,229	4.20	\$0	\$4,229	\$0	63.00																		
142223415a	Testing #3 FY13	01-Oct-12	04-Oct-12	0.80	\$2,494	2.40	\$0	\$2,494	\$0	63.00																		
142223420	Disassemble #3	05-Oct-12	12-Oct-12	1.20	\$1,398	3.20	\$0	\$1,398	\$0	63.00																		
142223425	Move #3 to storage	15-Oct-12	16-Oct-12	0.40	\$734	0.40	\$0	\$734	\$0	63.00																		
142223430	Setup module 4	17-Oct-12	24-Oct-12	1.20	\$2,499	3.80	\$0	\$2,499	\$0	63.00																		
142223435	Prepare components	25-Oct-12	08-Nov-12	2.20	\$4,214	5.30	\$0	\$4,214	\$0	63.00																		
142223440	Fiber/PMT assembly Module #4	09-Nov-12	02-Jan-13	6.20	\$30,620	28.80	\$0	\$30,620	\$0	63.00																		
142223445	Prepare #4 for test	03-Jan-13	17-Jan-13	2.20	\$2,196	4.20	\$0	\$2,196	\$0	63.00																		
142223450	Testing #4	18-Jan-13	04-Feb-13	2.20	\$6,858	6.60	\$0	\$6,858	\$0	63.00																		
142223455	Disassemble #4	05-Feb-13	12-Feb-13	1.20	\$1,398	3.20	\$0	\$1,398	\$0	63.00																		
142223460	Move #4 to storage	13-Feb-13	14-Feb-13	0.40	\$734	0.40	\$0	\$734	\$0	63.00																		
142223465	Setup module5	01-Mar-13	08-Mar-13	1.20	\$2,499	3.80	\$0	\$2,499	\$0	61.20																		
142223470	Prepare components	11-Mar-13	25-Mar-13	2.20	\$4,214	5.25	\$0	\$4,214	\$0	61.20																		
142223475	Fiber/PMT assembly Module #5	26-Mar-13	07-May-13	6.20	\$30,620	28.80	\$0	\$30,620	\$0	61.20																		
142223480	Prepare #5 for test	08-May-13	22-May-13	2.20	\$2,196																							















Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	Y2007	Y2008	Y2009	Y2010	Y2011	Y2012	Y2013	Y2014	Y2015	Y2016	Y2017	Y2018	Y2019	Y2020	Y2021	Y2022	Y23			
142232505	Move S6 to storage	14-Jun-12	14-Jun-12	0.20	\$0	0.00	\$0	\$0	\$0	61.60																				
142232510	S6 Counter QA and baseline measurements	25-Jul-13	22-Aug-13	4.20	\$7,338	4.00	\$0	\$7,338	\$0	64.80																				
142232515	S6 repair	23-Aug-13	20-Sep-13	4.00	\$9,943	5.00	\$0	\$9,943	\$0	64.80																				
142232520	Frame Modification Support Piece Procurement	02-Jan-13	28-Feb-13	8.00	\$0	0.00	\$16,482	\$16,482	\$0	176.40																				
142232525	Install Frame Support Pieces	01-Mar-13	14-Mar-13	2.00	\$3,669	2.00	\$0	\$3,669	\$0	176.40																				
142232530	Prepare JLAB construction space	13-May-13	27-Jun-13	6.60	\$1,834	1.00	\$0	\$1,834	\$0	136.80																				
142232535	Set up FTOF DAQ + Test Station	01-Apr-13	21-Jun-13	11.80	\$2,914	1.00	\$0	\$2,914	\$0	136.80																				
142232540	Unload counters	24-Jun-13	27-Jun-13	0.80	\$1,834	1.00	\$0	\$1,834	\$0	136.80																				
142232545	Mount counters to support frame	29-Jul-13	27-Nov-13	17.40	\$7,338	4.00	\$0	\$7,338	\$0	136.80																				
142232546	Panel 1-b QA and baseline measurements	01-Aug-13	31-Dec-13	20.20	\$33,019	18.00	\$0	\$33,019	\$0	136.80																				
142232549M	Panel 2 preparation	03-Jan-12		0.00	\$0	0.00	\$0	\$0	\$0	211.00																				
142232550	PMT/Divider Procurement Prep - Labor	03-Jan-12	30-Mar-12	12.40	\$2,824	1.00	\$0	\$2,824	\$0	211.00																				
142232555	PMT/Divider Procurement	01-Oct-12	07-Jan-13	12.60	\$0	0.00	\$39,556	\$39,556	\$0	185.60																				
142232560	Misc. Repair Parts	01-Aug-12	05-Jun-13	41.80	\$0	0.00	\$10,648	\$10,648	\$0	164.80																				
142232565	Deinstallation	15-Jun-12	12-Jul-12	4.00	\$0	0.00	\$0	\$0	\$0	61.60																				
142232570	Move Panel 2 to storage	15-Jun-12	12-Jul-12	4.00	\$0	0.00	\$2,580	\$2,580	\$0	61.60																				
142232575	Extract panel-2 counters from CLAS6 FY12	13-Jul-12	28-Sep-12	11.00	\$15,854	8.92	\$0	\$15,854	\$0	61.60																				
142232575a	Extract panel-2 counters from CLAS6 FY13	01-Oct-12	25-Oct-12	3.80	\$5,652	3.08	\$0	\$5,652	\$0	61.60																				
142232580	Set up FTOF DAQ + Test Station FY12	05-Jul-12	28-Sep-12	12.20	\$4,410	1.56	\$0	\$4,410	\$0	70.98																				
142232580a	Set up FTOF DAQ + Test Station FY13	01-Oct-12	24-Oct-12	3.43	\$1,278	0.44	\$0	\$1,278	\$0	70.98																				
142232585	Counter QA and baseline measurements	09-Jan-13	25-Mar-13	10.40	\$11,006	6.00	\$0	\$11,006	\$0	61.60																				
142232590	Counter repair	26-Mar-13	13-Sep-13	24.20	\$44,026	24.00	\$0	\$44,026	\$0	61.60																				
142232595	Mount S1 counters to frame	30-Jul-13	12-Aug-13	2.00	\$3,669	2.00	\$0	\$3,669	\$0	61.60																				
142232600	S1 panel-2 QA	13-Aug-13	19-Aug-13	1.00	\$1,834	1.00	\$0	\$1,834	\$0	61.60																				
142232605	Mount S2 counters to frames	20-Aug-13	03-Sep-13	2.00	\$3,669	2.00	\$0	\$3,669	\$0	61.60																				
142232610	S2 panel-2 QA	04-Sep-13	10-Sep-13	1.00	\$1,834	1.00	\$0	\$1,834	\$0	61.60																				
142232615	Mount S3 counters to frames	11-Sep-13	23-Sep-13	1.80	\$3,669	2.00	\$0	\$3,669	\$0	61.60																				
142232620	S3 panel-2 QA	24-Sep-13	30-Sep-13	1.00	\$1,834	1.00	\$0	\$1,834	\$0	61.60																				
142232625	Mount S4 counters to frames	01-Oct-13	14-Oct-13	2.00	\$3,669	2.00	\$0	\$3,669	\$0	61.60																				
142232630	S4 panel-2 QA	15-Oct-13	18-Oct-13	0.80	\$1,834	1.00	\$0	\$1,834	\$0	61.60																				
142232635	Mount S5 counters to frames	21-Oct-13	01-Nov-13	2.00	\$3,669	2.00	\$0	\$3,669	\$0	61.60																				
142232640	S5 panel-2 QA	04-Nov-13	08-Nov-13	1.00	\$1,834	1.00	\$0	\$1,834	\$0	61.60																				
142232645	Mount S6 counters to frames	11-Nov-13	22-Nov-13	2.00	\$3,669	2.00	\$0	\$3,669	\$0	61.60																				
142232650	S6 panel-2 QA	25-Nov-13	03-Dec-13	1.00	\$1,834	1.00	\$0	\$1,834	\$0	61.60																				
142232654	Support frame procurement prep	19-Jun-12	02-Jul-12	2.00	\$5,649	2.00	\$0	\$5,649	\$0	186.20																				
142232655	Panel 2 Support Frame Procurement	03-Jul-12	02-Jan-13	24.60	\$0	0.00	\$47,423	\$47,423	\$0	186.20																				
142232660	Panel 1-a and Panel 2 signal cables and connectors (672) - proc	04-Dec-13	08-Jan-14	4.00	\$0	0.00	\$13,310	\$13,310	\$0	123.80																				
142232665	Panel 1-a and Panel 2 signal cables and connectors (672) - assy&test	09-Jan-14	30-Jan-14	3.00	\$5,465	3.00	\$0	\$5,465	\$0	123.80																				
142232670	Panel 1-a and panel 2 refurbish laser system	31-Jan-14	28-Feb-14	4.00	\$0	0.00	\$5,324	\$5,324	\$0	123.80																				
142232675	Panel 1-a and panel 2 refurbish laser system - labor	03-Mar-14	21-Mar-14	3.00	\$5,465	3.00	\$0	\$5,465	\$0	123.80																				
142232680	Panel 1-a and panel 2 HV cable testing	24-Mar-14	04-Apr-14	2.00	\$3,643	2.00	\$0	\$3,643	\$0	123.80																				
142232685M	FTOF Complete		04-Apr-14	0.00	\$0	0.00	\$0	\$0	\$0	123.80																				
<b>1.4.2.2.4 CERENKOV</b>		23-Jul-09	06-Jun-14	241.60	\$1,050,396	589.93	\$1,081,540	\$2,584,645	\$452,708	91.20																				
<b>1.4.2.2.4.1 HIGH THRESHOLD CC</b>		23-Jul-09	06-Jun-14	241.60	\$833,452	476.45	\$850,043	\$2,118,288	\$434,794	91.20																				
142241000M	HTCC-P-#1 Start Constr	23-Jul-09		0.00	\$0	0.00	\$0	\$0	\$0	158.00																				
142241002	HTCC-P-#1 Procumnt Prep for Mirror Compnts & Tooling FY09	23-Jul-09	30-Sep-09	9.80	\$4,198	1.63	\$0	\$4,198	\$0	158.00																				
142241002b	HTCC-P-#1 Procumnt Prep for Mirror Compnts & Tooling FY10	01-Oct-09	15-Oct-09	2.20	\$973	0.37	\$0	\$973	\$0	158.00																				
142241005	HTCC-P-#1 Vend Manufacturing of Mirror Compnts & Tooling	05-Jan-10	26-Feb-10	7.40	\$0	0.00	\$0	\$37,809	\$37,809	148.20																				
142241026M	HTCC-P-#2 Start Constr	01-Oct-09		0.00	\$0	0.00	\$0	\$0	\$0	60.60																				
142241102	HTCC-P-#2 Procumnt Prep for Mirror Compnts & Tooling	01-Oct-09	14-Oct-09	2.00	\$2,652	1.00	\$0	\$2,652	\$0	60.60																				
142241105	HTCC-P-#2 Vend Manufacturing of Mirror Compnts & Tooling	05-Jan-10	26-Feb-10	7.40	\$0	0.00	\$0	\$37,809	\$37,809	50.60																				
142241210	Manufacturing of the 5" PMT ET-9823QB and HV dividers - Proc	07-Jun-10	07-Jun-11	49.80	\$0	0.00	\$364,000	\$364,000	\$0	148.20																				
142241250	Assembly of the mirror #1 substrate - Lab	23-Apr-10	15-Jul-10	11.60	\$2,652	1.00	\$0	\$2,652	\$0	50																				











Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
142242230	PMT Installation	30-Jan-14	22-Apr-14	11.60	\$10,252	5.00	\$0	\$10,252	\$0	36.60																		
142242235	Windows Installation 6 sectors	27-Mar-14	29-May-14	9.00	\$7,338	4.00	\$0	\$7,338	\$0	36.60																		
142242240M	LTCC Complete	29-May-14	29-May-14	0.00	\$0	0.00	\$0	\$0	\$0	36.60																		
<b>1.4.2.3 COMPUTING</b>		01-Oct-10	30-Sep-14	198.20	\$542,510	568.17	\$941,525	\$1,484,035	\$0	36.60																		
<b>1.4.2.3.1 TRIGGER SYSTEM (Scintillators)</b>		01-Dec-11	30-Sep-14	140.40	\$155,612	53.73	\$484,145	\$639,758	\$0	23.80																		
14231005	CTP Procurement Prep	03-Jan-12	09-Jan-12	1.00	\$2,824	1.00	\$0	\$2,824	\$0	90.40																		
14231007	CTP procurement (22 boards)	01-Oct-12	28-Feb-13	19.80	\$0	0.00	\$140,411	\$140,411	\$0	53.60																		
14231010	** DO NOT MODIFY/START OPC CR** CTP testing of 22 boards	01-Oct-13	28-Feb-14	19.80	\$2,327	0.80	\$0	\$2,327	\$0	53.60																		
14231015	SSP single board tests	01-Dec-11	30-Dec-11	3.40	\$5,649	2.00	\$0	\$5,649	\$0	80.00																		
14231020	SSP procurement prep	01-Feb-12	08-Feb-12	1.20	\$2,824	1.00	\$0	\$2,824	\$0	80.00																		
14231025	SSP procurement (15 boards)	01-Oct-12	12-Apr-13	26.00	\$0	0.00	\$134,663	\$134,663	\$0	47.40																		
14231030	** DO NOT MODIFY/START OPC CR** SSP testing of 15 boards	01-Oct-13	14-Apr-14	26.00	\$1,528	0.52	\$0	\$1,528	\$0	47.40																		
14231035	GTP single board tests	01-Dec-11	30-Dec-11	3.40	\$5,649	2.00	\$0	\$5,649	\$0	75.40																		
14231040	GTP procurement prep	28-Nov-12	08-Feb-13	9.20	\$2,914	1.00	\$0	\$2,914	\$0	37.60																		
14231045	GTP procurement (2 boards)	11-Feb-13	21-Jun-13	18.60	\$0	0.00	\$13,415	\$13,415	\$0	37.60																		
14231050	** DO NOT MODIFY/START OPC CR** GTP testing of 2 boards	01-Oct-13	23-Jun-14	35.80	\$2,103	0.72	\$0	\$2,103	\$0	37.60																		
14231055	SD procurement prep	02-Apr-12	09-Apr-12	1.20	\$2,824	1.00	\$0	\$2,824	\$0	61.60																		
14231060	SD procurement (24 boards)	10-Apr-12	31-Dec-12	36.00	\$0	0.00	\$18,240	\$18,240	\$0	61.60																		
14231065	SD testing of 24 boards	02-Jan-13	31-Dec-13	49.60	\$5,829	2.00	\$0	\$5,829	\$0	61.60																		
14231070	TI procurement prep	01-May-12	08-May-12	1.20	\$2,824	1.00	\$0	\$2,824	\$0	61.60																		
14231075	TI procurement (52 boards)	09-May-12	31-Dec-12	31.80	\$0	0.00	\$109,980	\$109,980	\$0	61.60																		
14231080	** DO NOT MODIFY/START OPC CR** TI testing of 52 boards	01-Oct-13	31-Dec-13	11.80	\$2,773	0.95	\$0	\$2,773	\$0	61.60																		
14231085	TD procurement prep	01-Jun-12	11-Jun-12	1.20	\$2,824	1.00	\$0	\$2,824	\$0	61.60																		
14231090	TD procurement (10 boards)	12-Jun-12	31-Dec-12	27.40	\$0	0.00	\$58,150	\$58,150	\$0	61.60																		
14231095	** DO NOT MODIFY/START OPC CR** TD testing of 10 boards	01-Oct-13	31-Dec-13	11.80	\$694	0.24	\$0	\$694	\$0	61.60																		
14231100	TS single board tests	01-Dec-11	30-Dec-11	3.40	\$5,649	2.00	\$0	\$5,649	\$0	61.60																		
14231105	TS procurement prep	08-Apr-13	15-Apr-13	1.20	\$2,914	1.00	\$0	\$2,914	\$0	23.80																		
14231110	TS procurement (2 boards)	16-Apr-13	30-Sep-13	23.40	\$0	0.00	\$9,287	\$9,287	\$0	23.80																		
14231115	TS testing of 2 boards	01-Oct-13	30-Sep-14	49.60	\$1,457	0.50	\$0	\$1,457	\$0	23.80																		
14231120	Trigger system commissioning	01-Oct-13	30-Sep-14	49.60	\$102,004	35.00	\$0	\$102,004	\$0	23.80																		
<b>1.4.2.3.2 DAQ</b>		03-Jan-12	31-Mar-14	111.40	\$95,720	75.78	\$77,186	\$172,906	\$0	49.40																		
14232005	** DO NOT MODIFY/START OPC CR** DAQ Commissioning	01-Oct-13	31-Dec-13	11.80	\$13,923	4.78	\$0	\$13,923	\$0	61.60																		
14232010	CLAS12 DAQ/online software updates FY12	03-Jan-12	28-Sep-12	37.80	\$59,365	53.35	\$0	\$59,365	\$0	61.60																		
14232015	** DO NOT MODIFY/START OPC CR** CLAS12 DAQ/online software updates FY13	01-Oct-13	31-Dec-13	11.80	\$20,611	16.65	\$0	\$20,611	\$0	61.60																		
14232020	Procure GE VME controllers (5) Part A	29-Oct-13	02-Jan-14	8.00	\$0	0.00	\$15,437	\$15,437	\$0	49.40																		
14232022	Procure GE VME controllers (17) Part B	03-Jan-14	03-Mar-14	8.00	\$0	0.00	\$61,749	\$61,749	\$0	49.40																		
14232025	Install GE VME controllers (22)	04-Mar-14	31-Mar-14	4.00	\$1,822	1.00	\$0	\$1,822	\$0	49.40																		
<b>1.4.2.3.3 ONLINE COMPUTING</b>		03-Oct-11	29-May-14	131.40	\$92,199	35.54	\$316,277	\$408,476	\$0	41.00																		
14233005	ONLINE COMP-P-#1 Construction Setup Historical Contributed Labor	03-Oct-11	31-Oct-11	4.20	\$0	0.34	\$0	\$0	\$0	168.20																		
14233007	CLAS12 Online and Monitoring software updates	06-Jan-12	28-Sep-12	37.20	\$79,083	28.00	\$0	\$79,083	\$0	123.00																		
14233010	Ethernet wiring inside Hall B (10Gbit)	29-Oct-13	03-Mar-14	16.00	\$0	0.00	\$41,276	\$41,276	\$0	53.40																		
14233015	Trigger system fibers wiring	29-Oct-13	30-Jan-14	11.80	\$0	0.00	\$41,276	\$41,276	\$0	57.60																		
14233020	Procure CISCO 2960S switches (24 Cu ports) (15)	29-Oct-13	03-Mar-14	16.00	\$0	0.00	\$66,558	\$66,558	\$0	45.40																		
14233025	Install CISCO 2960S switches (24 Cu ports) (15)	04-Mar-14	28-Apr-14	8.00	\$1,822	1.00	\$0	\$1,822	\$0	45.40																		
14233030	Procure 4-port 10Gbit Blades for BigIron	29-Oct-13	03-Mar-14	16.00	\$0	0.00	\$49,531	\$49,531	\$0	45.40																		
14233035	Install 4-port 10Gbit Blades for BigIron	04-Mar-14	28-Apr-14	8.00	\$364	0.20	\$0	\$364	\$0	45.40																		
14233040	Procure Ethernet fibers/Cu wires	29-Oct-13	03-Mar-14	16.00	\$0	0.00	\$20,638	\$20,638	\$0	45.40																		
14233045	Install Ethernet fibers/Cu wires	04-Mar-14	28-Apr-14	8.00	\$1,822	1.00	\$0	\$1,822	\$0	45.40																		
14233050	Procure Terminal servers (Etherlite32) (10)	29-Oct-13	03-Mar-14	16.00	\$0	0.00	\$14,447	\$14,447	\$0	45.40																		
14233055	Install Terminal servers (Etherlite32) (10)	04-Mar-14	28-Apr-14	8.00	\$1,822	1.00	\$0	\$1,822	\$0	45.40																		
14233060	Procure Terminal servers (Etherlite32) (10)	29-Oct-13	28-Mar-14	19.80	\$0	0.00	\$82,552	\$82,552	\$0	41.00																		
14233065	Install Terminal servers (Etherlite32) (10)	31-Mar-14	29-May-14	8.60	\$7,286	4.00	\$0	\$7,286	\$0	41.00																		
14233070M	Online computing infrastructure complete	03-Oct-11	29-May-14	0.00	\$0	0.00	\$0	\$0	\$0	41.00																		
<b>1.4.2.3.4 OFFLINE COMPUTING</b>		03-Oct-11	30-Sep-14	148.60	\$3,591	270.11	\$0	\$3,591	\$0	36.60																		
14234005	OFFLINE COMP- Constrctn Setup (P-#1) Historical	03-Oct-11	31-Oct-11	4.20	\$3,591	10.11	\$0	\$3,591	\$0	168.20																		
14234020LOE	Contributed Labor Effort	01-Dec-11	30-Sep-14	140.40	\$0	260.00	\$0	\$0	\$0	36.60																		

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023
14235010	SLOW CNTL- Constrcn Setup (P-#2) FY11	28-Sep-11	30-Sep-11	0.60	\$821	0.58	\$0	\$821	\$0	74.00																	
14235010a	SLOW CNTL- Constrcn Setup (P-#2) FY12	03-Oct-11	28-Sep-12	49.40	\$68,313	46.42	\$0	\$68,313	\$0	74.00																	
14235015	SLOW CNTL- Constrcn Setup (P-#3)	01-Oct-12	25-Sep-13	49.00	\$68,454	46.00	\$63,916	\$132,370	\$0	74.00																	
<b>1.4.2.4 ELECTRONICS</b>		30-Sep-10	31-Jan-14	164.80	\$52,768	30.30	\$3,072,796	\$3,125,563	\$0	57.40																	
<b>1.4.2.4.1 ADC</b>		03-Oct-11	29-Mar-13	73.40	\$9,885	5.00	\$1,139,860	\$1,149,745	\$0	99.00																	
14241005	ADC Prcmnt	03-Oct-11	28-Oct-11	4.00	\$9,885	5.00	\$0	\$9,885	\$0	102.60																	
14241010	FADC-250 (275) procurement	04-Jan-12	30-Nov-12	46.20	\$0	0.00	\$1,136,337	\$1,136,337	\$0	99.00																	
14241015	UMASS - FADC-250 testing (275)	31-Oct-12	29-Mar-13	19.60	\$0	0.00	\$3,523	\$3,523	\$0	99.00																	
<b>1.4.2.4.2 TDC AND DISCRIMINATORS</b>		04-Jan-12	02-Jul-13	74.80	\$16,875	12.60	\$555,950	\$572,826	\$0	85.80																	
14242005	CAEN v1190 TDCs (reuse) (31) installation	01-Jun-12	31-Jul-12	8.40	\$565	0.20	\$0	\$565	\$0	131.40																	
14242010	CAEN v1290 TDCs (reuse) (24) installation	01-Jun-12	31-Jul-12	8.40	\$565	0.20	\$0	\$565	\$0	131.40																	
14242015	CAEN v1290N TDCs (reuse) (7) installation	01-Jun-12	31-Jul-12	8.40	\$565	0.20	\$0	\$565	\$0	131.40																	
14242020	JLab TDC Fanout procurement prep	01-Oct-12	09-Oct-12	1.40	\$2,914	1.00	\$0	\$2,914	\$0	85.80																	
14242025	JLab TDC Fanout (25) procurement	10-Oct-12	09-Apr-13	24.00	\$0	0.00	\$51,595	\$51,595	\$0	85.80																	
14242030	JLab TDC Fanout (25) test/install	10-Apr-13	02-Jul-13	11.80	\$2,914	1.00	\$0	\$2,914	\$0	85.80																	
14242033	JLab Discriminator First Article and Non-Recurring Engineering	04-Jan-12	31-May-12	20.80	\$0	0.00	\$26,138	\$26,138	\$0	91.00																	
14242035	JLab Discriminator (275) procurement	04-Jan-12	31-Aug-12	33.80	\$0	0.00	\$390,403	\$390,403	\$0	91.00																	
14242040	JLab Discriminator (275) test/install	05-Mar-13	24-May-13	11.80	\$3,523	8.00	\$0	\$3,523	\$0	91.00																	
14242045	ORTEC 935F discr. procurement prep	01-Oct-12	09-Oct-12	1.40	\$2,914	1.00	\$0	\$2,914	\$0	85.80																	
14242050	ORTEC 935F discr. (25) procurement	10-Oct-12	09-Apr-13	24.00	\$0	0.00	\$87,815	\$87,815	\$0	85.80																	
14242055	ORTEC 935F discr. (25) test/install	10-Apr-13	02-Jul-13	11.80	\$2,914	1.00	\$0	\$2,914	\$0	85.80																	
14242060M	TDC and Discriminators Complete		02-Jul-13	0.00	\$0	0.00	\$0	\$0	\$0	85.80																	
<b>1.4.2.4.3 SCALERS</b>		05-Jan-12	31-Jan-14	103.00	\$6,355	3.00	\$65,196	\$71,551	\$0	57.40																	
14243005	SCALERS- Prcmnt	05-Jan-12	02-Feb-12	4.00	\$6,355	3.00	\$0	\$6,355	\$0	144.40																	
14243010	SCALERS- Vend Fab	29-Oct-13	31-Jan-14	12.00	\$0	0.00	\$65,196	\$65,196	\$0	57.40																	
<b>1.4.2.4.4 HIGH VOLTAGE</b>		05-Jan-12	02-Dec-13	95.60	\$9,087	4.50	\$701,818	\$710,906	\$0	64.80																	
14244005	Hi Voltage Prcmnt	05-Jan-12	02-Feb-12	4.00	\$6,355	3.00	\$0	\$6,355	\$0	134.40																	
14244010	Vend Fab - Universal Multichannel Power Supply System 750W (QTY 5)	05-Jan-12	10-Jul-12	26.00	\$0	0.00	\$43,511	\$43,511	\$0	134.40																	
14244015	Vend Fab - Optional Power Supply 750W (QTY5)	05-Jan-12	10-Jul-12	26.00	\$0	0.00	\$6,843	\$6,843	\$0	134.40																	
14244020	Vend Fab - H.V Channels +3.5 KV 3 MA Floating (QTY13)	05-Jan-12	10-Jul-12	26.00	\$0	0.00	\$88,992	\$88,992	\$0	134.40																	
14244025	Vend Fab - H.V Channels -3.5 KV 3 MA Floating (QTY87)	05-Jan-12	10-Jul-12	26.00	\$0	0.00	\$562,473	\$562,473	\$0	134.40																	
14244030	CAEN 1527 HV mainframes install (12)	01-Oct-13	31-Oct-13	4.60	\$911	0.50	\$0	\$911	\$0	64.80																	
14244035	CAEN 1527 HV mainframes install (12)	01-Nov-13	02-Dec-13	4.00	\$1,822	1.00	\$0	\$1,822	\$0	64.80																	
<b>1.4.2.4.7 CRATES, RACKS</b>		30-Sep-10	07-Jan-14	161.40	\$10,565	5.20	\$609,971	\$620,536	\$0	60.80																	
14247005	Crates & Racks Prcmnt	01-Oct-12	31-Oct-12	4.60	\$6,558	3.00	\$0	\$6,558	\$0	118.40																	
14247006	Wiener VME64x crates install (20)	31-May-13	27-Jun-13	4.00	\$1,822	1.00	\$0	\$1,822	\$0	86.40																	
14247008	Vend Fab Crates and Racks Phase 1 Peg Point #2 VME64 Qty 5	30-Sep-10	28-Feb-11	19.60	\$0	0.00	\$36,160	\$36,160	\$0	186.00																	
14247009	Vend Fab Crates and Racks Phase 1 Peg Point #4 VXS Qty 5	30-Sep-10	31-Mar-11	24.20	\$0	0.00	\$54,340	\$54,340	\$0	186.00																	
14247010	Vend Fab Crates and Racks Phase 2 VXS	05-Jan-12	30-Mar-12	12.00	\$0	0.00	\$198,417	\$198,417	\$0	148.40																	
14247015	Vend Fab Crates and Racks Phase 2 VME64X	05-Jan-12	30-Mar-12	12.00	\$0	0.00	\$104,355	\$104,355	\$0	148.40																	
14247020	NIM crates (10) procurement	01-Oct-12	31-Oct-12	4.60	\$0	0.00	\$72,233	\$72,233	\$0	85.80																	
14247025	NIM crates (10) install	05-Jun-13	02-Jul-13	4.00	\$729	0.40	\$0	\$729	\$0	85.80																	
14247030	Racks FC Level-0 (10) procurement	01-Oct-12	31-Oct-12	4.60	\$0	0.00	\$72,233	\$72,233	\$0	85.80																	
14247035	Racks FC Level-0 (10) install	05-Jun-13	02-Jul-13	4.00	\$729	0.40	\$0	\$729	\$0	85.80																	
14247040	Uninterruptible PowerSupply (16kVA)	29-Oct-13	02-Dec-13	4.60	\$0	0.00	\$72,233	\$72,233	\$0	60.80																	
14247045	Re-locate existing UPS to Hall B	03-Dec-13	07-Jan-14	4.00	\$729	0.40	\$0	\$729	\$0	60.80																	
14247060M	Crates and Racks Complete		07-Jan-14	0.00	\$0	0.00	\$0	\$0	\$0	60.80																	
<b>1.4.2.5 BEAMLINE</b>		03-Oct-11	13-Dec-13	109.40	\$245,207	162.04	\$63,916	\$428,132	\$119,008	63.00																	
<b>1.4.2.5.1 FARADAY CUP UPGRADE</b>		03-Jan-13	26-Apr-13	16.00	\$54,059	23.00	\$0	\$105,190	\$51,130	95.00																	
14251005	Refurb CLAS Faraday Cup	03-Jan-13	26-Apr-13	16.00	\$54,059	23.00	\$0	\$105,190	\$51,130	95.00																	
<b>1.4.2.5.2 MOLLER POLARIMETER UPGRADE</b>		03-Jan-13	13-Dec-13	48.00	\$34,022	62.00	\$0	\$59,594	\$25,571	63.00																	
14252005	Fab a Moller Polarimeter Supprt Struct	03-Jan-13	24-Jun-13	24.00	\$17,011	31.00	\$0	\$29,471	\$12,460	63.00																	
14252010	Fab a Moller Polarimeter Supprt Struct	25-Jun-13	13-Dec-13	24.00	\$17,011	31.00	\$0	\$30,123	\$13,112	63.00																	
<b>1.4.2.5.4 BEAMLINE COMPONENTS</b>		03-Oct-11	13-Dec-13	109.40	\$157,125	77.04	\$63,916	\$263,348	\$42,307	63.00																	
14254005	P-#1 Constrcn of Beam Line Monitoring Sys	03-Oct-11	30-Mar-12	24.00	\$5,649	2.00	\$0	\$5,649	\$0	124.																	



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
14254020	P-#2 Constrcn of Beam Line Monitoring Sys	01-Apr-13	18-Sep-13	24.00	\$11,658	4.00	\$0	\$11,658	\$0	75.00																	
14254025	Constrctn of Beam Line Vac Sys	25-Jun-13	13-Dec-13	24.00	\$26,412	17.88	\$0	\$26,412	\$0	63.00																	
<b>1.4.2.6 INFRASTRUCTURE</b>		01-Jul-11	30-Mar-15	185.20	\$1,044,966	506.44	\$789,007	\$2,102,386	\$268,412	75.20																	
<b>1.4.2.6.4 INSTALLATION</b>		01-Jul-11	30-Mar-15	185.20	\$1,044,966	506.44	\$789,007	\$2,102,386	\$268,412	75.20																	
14264000	CLAS 6 Removal	14-May-12	06-Feb-13	36.20	\$0	0.00	\$0	\$0	\$0	57.20																	
14264000aLC	Installation Engineering Oversight A FY12	01-Dec-11	28-Sep-12	41.20	\$106,582	38.00	\$0	\$106,582	\$0	182.20																	
14264000bLC	Installation Engineering Oversight A FY13	01-Oct-12	31-Jan-13	16.00	\$41,969	14.50	\$0	\$41,969	\$0	182.20																	
14264000cLC	Installation Engineering Oversight B FY12	01-Feb-12	28-Sep-12	33.80	\$85,546	30.50	\$0	\$85,546	\$0	182.20																	
14264000dLC	Installation Engineering Oversight B FY13	01-Oct-12	31-Jan-13	16.00	\$41,969	14.50	\$0	\$41,969	\$0	182.20																	
14264001LOE	Installation Procurement Support FY12	03-Oct-11	28-Sep-12	49.40	\$39,107	22.00	\$0	\$39,107	\$0	148.80																	
14264002LOE	Installation Procurement Support FY13	01-Oct-12	27-Sep-13	49.40	\$40,357	22.00	\$0	\$40,357	\$0	148.80																	
14264002M	Hall Cleared and Cleaned for CLAS12 installation	07-Feb-13		0.00	\$0	0.00	\$0	\$0	\$0	57.20																	
14264007x	Subway Addition Procurement Prep	05-Jul-11	30-Sep-11	12.60	\$14,626	6.00	\$0	\$14,626	\$0	117.60																	
14264008	Vend Fab Subway Addition with rails and Spaceframe Mod	11-Sep-12	31-May-13	35.60	\$0	0.00	\$277,129	\$277,129	\$0	71.00																	
14264008a	Spaceframe Motion System	01-Jul-11	30-Dec-11	24.40	\$0	0.00	\$50,000	\$50,000	\$0	141.60																	
14264009	Electrical Utilities Mods of Spaceframe	02-Aug-11	29-Aug-11	4.00	\$0	0.00	\$38,000	\$38,000	\$0	122.20																	
14264013	Vend Fab Fwd. carriage Mods and install hangers and mount	01-Jun-12	29-Mar-13	40.80	\$0	0.00	\$40,000	\$40,000	\$0	70.60																	
14264186M	SVT Ready For Installation	16-Jul-14		0.00	\$0	0.00	\$0	\$0	\$0	31.60																	
14264188M	CTOF Ready for Installation	29-May-14		0.00	\$0	0.00	\$0	\$0	\$0	38.20																	
14264200M	R3 Drift Chambers Ready for Installation	01-Apr-14		0.00	\$0	0.00	\$0	\$0	\$0	46.40																	
14264202M	R2 Drift Chambers Ready for Installation	01-May-13		0.00	\$0	0.00	\$0	\$0	\$0	91.60																	
14264204M	R1 Drift Chambers Ready for Installation	01-Aug-13		0.00	\$0	0.00	\$0	\$0	\$0	78.80																	
14264206M	ToF Panel 1a - First 3 units Ready for Installation	05-Apr-13		0.00	\$0	0.00	\$0	\$0	\$0	96.00																	
14264208M	ToF Panel 1a - Last 3 units Ready for Installation	23-Sep-13		0.00	\$0	0.00	\$0	\$0	\$0	64.80																	
14264210M	ToF Panel 2 Ready for Installation	04-Dec-13		0.00	\$0	0.00	\$0	\$0	\$0	61.60																	
14264212M	ToF Panel 1b - First 3 units Ready for Installation	30-Sep-13		0.00	\$0	0.00	\$0	\$0	\$0	65.20																	
14264214M	ToF Panel 1b - Last 3 units Ready for Installation	02-Jan-14		0.00	\$0	0.00	\$0	\$0	\$0	54.60																	
14264216M	LTCC - First 3 units Ready for Installation	06-Mar-14		0.00	\$0	0.00	\$0	\$0	\$0	47.40																	
14264218M	LTCC - Last 3 units Ready for Installation	30-May-14		0.00	\$0	0.00	\$0	\$0	\$0	36.60																	
14264220M	PCAL - First 5 units Ready for Installation	21-Jun-13		0.00	\$0	0.00	\$0	\$0	\$0	74.40																	
14264222M	PCAL - Unit 6 Ready for Installation	11-Oct-13		0.00	\$0	0.00	\$0	\$0	\$0	61.20																	
14264224M	HTCC Ready for Installation	09-Jun-14		0.00	\$0	0.00	\$0	\$0	\$0	36.80																	
14264225M	First Torus Cryostat Ready	30-Jan-14		0.00	\$0	0.00	\$0	\$0	\$0	17.80																	
14264226M	Last Torus Cryostat Ready	01-Jul-14		0.00	\$0	0.00	\$0	\$0	\$0	14.00																	
14264227M	Torus Control System Ready for Installation	07-Jan-14		0.00	\$0	0.00	\$0	\$0	\$0	54.00																	
14264228M	Subway Steel Delivered		31-May-13	0.00	\$0	0.00	\$0	\$0	\$0	71.00																	
14264230	Subway Level 1 addition wiring Power Dist.	03-Jun-13	07-Jun-13	1.00	\$0	0.00	\$10,648	\$10,648	\$0	89.20																	
14264235	Hall B Control Survey	03-Jun-13	07-Jun-13	1.00	\$0	0.00	\$10,648	\$10,648	\$0	89.20																	
14264238M	Start Mods of FWD Carriage	07-Feb-13		0.00	\$0	0.00	\$0	\$0	\$0	103.20																	
14264240	Manufacturing Design of Fwd. Carriage Mods	03-Dec-12	18-Dec-12	2.40	\$3,977	2.00	\$0	\$3,977	\$0	70.80																	
14264245	Procurement Prep of Fwd. Carriage Mods	19-Dec-12	31-Jan-13	5.00	\$579	0.20	\$0	\$579	\$0	70.80																	
14264260	Reinforce Fwd Carriage, add motion system mounts and detector mounts	07-Feb-13	10-Apr-13	8.80	\$3,030	1.80	\$0	\$3,030	\$0	69.80																	
14264265	Add Hand rails and stairs to FC level 0	11-Apr-13	15-Apr-13	0.60	\$0	0.00	\$0	\$0	\$0	69.80																	
14264267	Add AC power to Level 0 FC	16-Apr-13	18-Apr-13	0.60	\$0	0.00	\$0	\$0	\$0	93.20																	
14264269	Manufacturing Design of Motion System	03-Jan-13	22-Mar-13	11.00	\$3,977	2.00	\$0	\$3,977	\$0	60.80																	
14264271	Procurement Prep of Motion System	25-Mar-13	30-Apr-13	5.40	\$579	0.20	\$0	\$579	\$0	60.80																	
14264273	Vend Fab Motion System	01-May-13	18-Jun-13	6.80	\$0	0.00	\$5,764	\$5,764	\$0	60.80																	
14264278	Install Motion system	19-Jun-13	25-Jun-13	1.00	\$0	0.00	\$0	\$0	\$0	60.80																	
14264280	Modify LTCC gas piping	19-Apr-13	09-May-13	3.00	\$11,006	6.00	\$0	\$11,006	\$0	93.20																	
14264285	Modify Lead nose	26-Jun-13	01-Jul-13	0.80	\$2,935	1.60	\$0	\$2,935	\$0	60.80																	
14264290	Weld PCAL and LTCC brackets	02-Jul-13	16-Jul-13	2.00	\$3,669	2.00	\$0	\$20,757	\$17,089	60.80																	
14264295	Install panel 2 TOF brackets	16-Jul-13	29-Jul-13	2.00	\$1,834	1.00	\$0	\$18,923	\$17,089	60.80																	
14264297M	Start Forward Carriage Precabing	30-Jul-13		0.00	\$0	0.00	\$0	\$0	\$0	60.80																	
14264300	Install 10 electronics racks level 0	30-Jul-13	01-Aug-13	0.60	\$3,669	2.00	\$0	\$3,669	\$0	60.80																	
14264305	Install 2 electronics racks level 2	02-Aug-13	05-Aug-13	0.40	\$459	0.25	\$0	\$459	\$0	60.80																	
14264308	Reroute EC, CC, TOF HV/signal cables	06-Aug-13	17-Oct-13	10.40	\$64,204	35.00	\$0	\$64,204	\$0	60.80																	
14264310	Install PCAL HV/signal cables	17-Oct-13	07-Nov-13	3.20	\$27,324	15.00	\$0	\$27,324	\$0	60.80																	

█ Primary Baseline   
 █ Remaining Work   
 ◆ Baseline Milestone  
█ Actual Work   
 █ Critical Remaining Work   
 ◆ Milestone











Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023
14273010A	Vend Fab Wave Solder of Torus and Solenoid Magnets Peg Point #1-Soldering Setup P...	17-Aug-12	28-Sep-12	6.00	\$0	0.00	\$38,616	\$38,616	\$0	0.40																	
14273010B	Vend Fab Wave Solder of Torus and Solenoid Magnets Peg Point #2-Procurement of M...	17-Aug-12	31-Oct-12	10.60	\$0	0.00	\$125,000	\$125,000	\$0	0.40																	
14273010C	Vend Fab Wave Solder of Torus and Solenoid Magnets Peg Point #3-Delivery of Torus ...	17-Aug-12	30-Nov-12	14.60	\$0	0.00	\$21,060	\$21,060	\$0	0.40																	
14273010D	Vend Fab Wave Solder of Torus and Solenoid Magnets Peg Point #4-Delivery of Torus ...	17-Aug-12	31-Jan-13	22.00	\$0	0.00	\$125,000	\$125,000	\$0	0.40																	
14273010G	Vend Fab Wave Solder of Torus and Solenoid Magnets Peg Point #5-Delivery of 1st set ...	17-Aug-12	29-Mar-13	30.00	\$0	0.00	\$92,985	\$92,985	\$0	0.40																	
14273010H	Vend Fab Wave Solder of Torus and Solenoid Magnets Peg Point #6-Delivery of 2nd set...	17-Aug-12	29-Mar-13	30.00	\$0	0.00	\$92,985	\$92,985	\$0	0.40																	
14273010J	Vend Fab Wave Solder of Torus and Solenoid Magnets Peg Point #7-Delivery of 3rd set ...	17-Aug-12	30-Apr-13	34.40	\$0	0.00	\$92,985	\$92,985	\$0	0.40																	
14273010K	Vend Fab Wave Solder of Torus and Solenoid Magnets Peg Point #8-Delivery of 4th set ...	17-Aug-12	28-Jun-13	42.80	\$0	0.00	\$92,985	\$92,985	\$0	0.40																	
14273011	Wave Solder of Torus and Solenoid Magnets Travel FY12	17-Aug-12	28-Sep-12	6.00	\$13,397	6.30	\$0	\$23,197	\$9,800	0.40																	
14273012	Wave Solder of Torus and Solenoid Magnets Travel FY13	01-Oct-12	28-Jun-13	36.80	\$47,399	21.60	\$0	\$82,071	\$34,672	0.40																	
14273014	Design/Build/Install guides and rollers for inlet/outlet of process	01-Aug-12	28-Sep-12	8.40	\$3,176	1.50	\$0	\$3,676	\$500	0.20																	
14273014A	Dial in the process settings - spooling and traverse speeds, manual control	01-Oct-12	26-Oct-12	4.00	\$3,505	1.15	\$0	\$3,505	\$0	0.20																	
14273014B	Unspool/Measure/Respool/Inspect	29-Oct-12	11-Dec-12	6.00	\$19,261	10.50	\$0	\$19,261	\$0	0.20																	
14273015	Cryostat Factory Setup	01-Oct-12	31-Dec-12	11.80	\$84,970	36.94	\$0	\$84,970	\$0	51.80																	
<b>1.4.3 CONSTRUCTION HALL C</b>		02-Jan-09	09-Mar-15	306.40	\$5,186,463	2347.28	\$19,173,094	\$25,640,395	\$1,280,838	78.20																	
<b>1.4.3.1 MAGNET</b>		02-Jan-09	09-Mar-15	306.40	\$1,787,090	740.13	\$12,759,008	\$14,938,004	\$391,906	78.20																	
<b>1.4.3.1.1 HB MAGNET</b>		14-Oct-09	30-Sep-14	246.00	\$202,825	81.32	\$965,757	\$1,205,668	\$37,086	99.00																	
14311000M	HB- Award Contract for HB Mag	14-Oct-09*		0.00	\$0	0.00	\$0	\$0	\$0	0.00																	
14311002	HB- Contractor Expenses (FROZEN by CR10-063)	14-Oct-09	10-Nov-09	4.00	\$0	0.00	\$18,679	\$18,679	\$0	71.80																	
14311005	HB- Finalise Dsgn for HB Mag (FROZEN by CR10-063)	14-Oct-09	27-Apr-10	26.00	\$0	0.00	\$92,438	\$96,833	\$4,395	49.80																	
14311010	HB- Dsgn Review of HB Mag (FROZEN by CR10-063)	28-Apr-09	04-May-10	1.00	\$2,634	1.00	\$0	\$4,832	\$2,198	49.80																	
14311015	HB- Insulate Superconductor (FROZEN by CR10-063)	05-May-10	02-Jun-10	4.00	\$0	0.00	\$13,185	\$13,185	\$0	49.80																	
14311066	HB-Arrival Test @ Jlab	30-Dec-13	28-Jan-14	4.00	\$15,246	6.00	\$0	\$15,246	\$0	45.20																	
14311071	HB Drawing Validation	31-Oct-13	02-Apr-14	20.00	\$23,861	12.00	\$0	\$23,861	\$0	59.60																	
14311072	HB Site Inspections FY12	03-Jan-12	28-Sep-12	37.80	\$0	0.00	\$0	\$2,371	\$2,371	86.80																	
14311072a	HB Site Inspections FY13	01-Oct-12	28-Jun-13	36.80	\$0	0.00	\$0	\$2,382	\$2,382	86.80																	
14311073	HB Design Reviews FY11	05-May-11	30-Sep-11	20.80	\$2,261	0.83	\$0	\$4,148	\$1,887	45.60																	
14311073a	HB Design Reviews FY12	03-Oct-11	31-Oct-11	4.20	\$471	0.17	\$0	\$864	\$393	45.60																	
14311075	HB Retest at Jlab	11-Aug-14	08-Sep-14	4.00	\$0	0.00	\$0	\$0	\$0	19.20																	
14311080	Reverse Entry - Change Request 10-063	01-Jul-10	01-Jul-10	0.20	(\$2,634)	-1.00	(\$124,303)	(\$133,530)	(\$6,593)	45.80																	
14311082	Vend Fab HB Magnet Peg Point #1 Preliminary Design Review	02-Jul-10	29-Oct-10	16.80	\$0	0.00	\$13,521	\$13,521	\$0	45.60																	
14311082a	Vend Fab HB Magnet Peg Point #2 HB Analysis Complete	02-Jul-10	28-Feb-11	32.00	\$0	0.00	\$146,795	\$146,795	\$0	45.60																	
14311082b	Vend Fab HB Magnet Peg Point #3 Intermediate Design Review	02-Jul-10	30-Jun-11	49.40	\$0	0.00	\$175,768	\$175,768	\$0	45.60																	
14311084	Vend Fab HB Magnet Peg Point #4 Final Design Review	02-Jul-10	31-Oct-11	66.40	\$0	0.00	\$169,973	\$169,973	\$0	45.60																	
14311086	Vend Fab HB Magnet Peg Point #5a HB Cold Mass Complete	02-Jul-10	29-Feb-12	81.80	\$0	0.00	\$81,838	\$81,838	\$0	45.60																	
14311086a	Vend Fab HB Magnet Peg Point #5b HB Cold Mass Complete	01-Jul-11	29-Feb-12	32.40	\$0	0.00	\$34,053	\$34,053	\$0	45.40																	
14311086b	Vend Fab HB Magnet Peg Point #6 Cryostat and Materials Certifications Complete	01-Jul-11	29-Jun-12	49.40	\$0	0.00	\$90,781	\$90,781	\$0	45.40																	
14311086c	Vend Fab HB Magnet Peg Point #7a HB Magnet Cryostated	01-Jul-11	31-Oct-12	66.80	\$0	0.00	\$64,096	\$64,096	\$0	45.40																	
14311086d	Vend Fab HB Magnet Peg Point #7b HB Magnet Cryostated	02-Apr-12	31-Oct-12	30.00	\$0	0.00	\$19,924	\$19,924	\$0	45.40																	
14311086f	Vend Fab HB Magnet Peg Point #8 Magnet Complete	02-Apr-12	28-Feb-13	45.20	\$0	0.00	\$61,808	\$61,808	\$0	45.40																	
14311086g	Vend Fab HB Magnet Peg Point #9 HB Tested and Mapped at MSU and delivery to JLab	02-Apr-12	28-Jun-13	62.20	\$0	0.00	\$45,391	\$45,391	\$0	45.40																	
14311086h	Vend Fab HB Magnet Peg Point #10 HB Installed, Safety Review, ready for retest at JLab	02-Apr-12	30-Oct-13	79.40	\$0	0.00	\$28,973	\$28,973	\$0	45.40																	
14311086j	Vend Fab HB Magnet Peg Point #11 RE-Test at JLab	02-Apr-12	28-Feb-14	94.80	\$0	0.00	\$19,315	\$19,315	\$0	45.40																	
14311086k	Vend Fab HB Magnet Peg Point #12 HB Acceptance	02-Apr-12	30-May-14	107.60	\$0	0.00	\$13,521	\$13,521	\$0	45.40																	
14311087	HB- Factory Mag Test of HB Mag	24-Oct-13	20-Dec-13	8.00	\$4,883	2.00	\$0	\$7,297	\$2,415	62.60																	
143118P1LOE	HB Contract Mngmnt for HB Mag	14-Oct-09	30-Sep-10	47.80	\$37,198	16.00	\$0	\$41,593	\$4,395	99.00																	
143118P2LOE	HB Contract Mngmnt for HB Mag	01-Oct-10	30-Sep-11	49.60	\$30,914	12.00	\$0	\$35,450	\$4,535	99.00																	
143118P3LOE	HB Contract Mngmnt for HB Mag	03-Oct-11	30-Dec-11	11.60	\$7,491	2.82	\$0	\$8,590	\$1,099	99.00																	
143118P3LOI	HB Contract Mngmnt for HB Mag	03-Jan-12	28-Sep-12	37.80	\$25,329	9.50	\$0	\$31,329	\$6,000	99.00																	
143118P4LOE	HB Contract Mngmnt for HB Mag	01-Oct-12	30-Sep-13	49.60	\$32,921	12.00	\$0	\$40,660	\$7,739	99.00																	
143118P5LOE	HB Contract Mngmnt for HB Mag	01-Oct-13	30-Sep-14	49.60	\$22,249	8.00	\$0	\$26,119	\$3,870	99.00																	
<b>1.4.3.1.2 Q-1 QUADRUPOLE</b>		02-Jan-09	08-Aug-14	278.40	\$442,023	169.16	\$1,085,884	\$1,594,597	\$66,690	41.60																	
14312000M	Q1- Award Contract for Q1	16-Mar-09*		0.00	\$0	0.00	\$0	\$0	\$0	0.00																	
14312002	Q1- Contractor Expenses (Frozen and Reversed by Activity 14312011 per CR 09-041)	16-Mar-09	10-Apr-09	4.00	\$0	0.00	\$20,232	\$20,232	\$0																		

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023
14312011	Reverse Entry for Activities 14312002, 14312010 and 14312010a per CR 09-041	03-Aug-09	03-Aug-09	0.20	\$0	0.00	(\$20,232)	(\$23,896)	(\$3,665)	8.20																	
14312015	Vend Fab Q1 Procure Materials	03-Aug-09	14-Aug-09	2.00	\$0	0.00	\$108,588	\$108,588	\$0	258.20																	
14312020	Vend Fab Q1 Completion of Magnetic and Stress Analysis	03-Aug-09	12-Feb-10	26.00	\$0	0.00	\$54,294	\$54,294	\$0	234.20																	
14312025	Vend Fab Q1 Completion of Trial Wind	03-Aug-09	15-Mar-10	30.00	\$0	0.00	\$54,294	\$54,294	\$0	230.20																	
14312032	Vend Fab Q1 Completion of Preliminary Design Review	03-Aug-09	14-Jul-10	47.00	\$0	0.00	\$108,588	\$108,588	\$0	213.20																	
14312034	Reverse Entry for activities 14312036,14312040,14312041 and 14312045 per CR12-003	01-Nov-11	07-Nov-11	1.00	\$0	0.00	(\$380,059)	(\$380,059)	\$0	44.20																	
14312036	Vend Fab Q1 Completion of Cold Mass Components (Frozen Per CR12-003)	03-Aug-09	29-Apr-11	86.20	\$0	0.00	\$54,294	\$54,294	\$0	174.00																	
14312038	Vend Fab Q1 Completion of Cold Mass Components (Revised Per CR12-003)	01-Nov-11	30-Dec-11	7.40	\$0	0.00	\$108,588	\$108,588	\$0	108.80																	
14312040	Vend Fab Q1 Completion of Cold Mass Assembly (Frozen Per CR12-003)	03-Aug-09	29-Jul-11	98.80	\$0	0.00	\$108,588	\$108,588	\$0	153.60																	
14312040a	Vend Fab Q1 Completion of Cold Mass Assembly (Revised Per CR12-003)	01-Nov-11	31-May-12	28.40	\$0	0.00	\$54,294	\$54,294	\$0	108.80																	
14312040d	Vend Fab Q1 Completion of Cold Mass Testing	01-Nov-11	28-Sep-12	45.20	\$0	0.00	\$54,294	\$54,294	\$0	108.80																	
14312041	Vend Fab Q1 Warm Testing Complete (Frozen Per CR12-003)	03-Aug-09	31-Aug-11	103.40	\$0	0.00	\$108,588	\$108,588	\$0	155.80																	
14312041a	Vend Fab Q1 Warm Testing Complete (Revised Per CR12-003)	01-Nov-11	29-Jun-12	32.40	\$0	0.00	\$54,294	\$54,294	\$0	108.80																	
14312042	Vend Fab Q1 Completion of Final Design Review	03-Aug-09	31-Mar-11	82.00	\$0	0.00	\$54,294	\$54,294	\$0	178.20																	
14312045	Vend Fab Q1 Completion of Cryostat Components (Frozen Per CR12-003)	03-Aug-09	30-Jun-11	94.80	\$0	0.00	\$108,588	\$108,588	\$0	165.40																	
14312045a	Vend Fab Q1 Completion of Cryostat Components (Revised Per CR12-003)	01-Nov-11	31-May-12	28.40	\$0	0.00	\$108,588	\$108,588	\$0	108.80																	
14312046	Vend Fab Q1 Completion of Cryostat Assembly	03-Aug-09	28-Feb-13	176.80	\$0	0.00	\$54,294	\$54,294	\$0	61.80																	
14312047	Vend Fab Q1 Completion of Magnet Assembly	03-Aug-09	30-Apr-13	185.40	\$0	0.00	\$54,294	\$54,294	\$0	61.80																	
14312048	Vend Fab Q1 Completion of Factory Tests by Vendor	03-Aug-09	28-Jun-13	193.80	\$0	0.00	\$54,294	\$54,294	\$0	61.80																	
14312050	Vend Fab Q1 Magnet System Delivery	03-Aug-09	31-Jul-13	198.20	\$0	0.00	\$54,294	\$54,294	\$0	61.80																	
14312050a	Q1 Cooldown and Acceptance Test	20-Jun-14	01-Aug-14	6.00	\$9,458	4.00	\$0	\$9,458	\$0	19.20																	
14312050b	Q1 Harmonic Coil Test	04-Aug-14	08-Aug-14	1.00	\$3,812	1.50	\$0	\$3,812	\$0	23.20																	
14312050c	Vend Fab Q1 Magnet Acceptance	03-Aug-09	30-Sep-13	206.60	\$0	0.00	\$108,588	\$108,588	\$0	61.80																	
14312050d	Q1 Drawing Validation	06-Dec-13	06-May-14	20.00	\$23,861	12.00	\$0	\$23,861	\$0	54.80																	
14312051M	Q1 Acceptance Test Complete		01-Aug-14	0.00	\$0	0.00	\$0	\$0	\$0	24.20																	
14312052M	Factory Low Current Mag Test of Q1 Complete		31-Aug-11	0.00	\$0	0.00	\$0	\$0	\$0	155.80																	
14312053M	Q1 Delivered to JLab		05-Dec-13*	0.00	\$0	0.00	\$0	\$0	\$0	44.40																	
14312055	Pay Profit on Q1	04-Aug-14	04-Aug-14	0.20	\$0	0.00	\$0	\$0	\$0	32.40																	
143128P1LOE	Q1- P-1 Contract Mngmnt for Q1	16-Mar-09	30-Sep-09	28.00	\$10,048	4.50	\$0	\$12,604	\$2,556	73.60																	
143128P2LOE	Q1- P-2 Contract Mngmnt for Q1	01-Oct-09	30-Sep-10	49.60	\$37,198	16.00	\$0	\$50,383	\$13,185	73.60																	
143128P3LOE	Q1- P-3 Contract Mngmnt for Q1	01-Oct-10	30-Sep-11	49.60	\$28,196	11.00	\$0	\$37,267	\$9,071	73.60																	
143128P4LOE	Q1- P-4 Contract Mngmnt for Q1	03-Oct-11	28-Sep-12	49.40	\$29,097	11.00	\$0	\$38,457	\$9,360	73.60																	
143128P5LOE	Q1- P-5 Contract Mngmnt for Q1	01-Oct-12	30-Sep-13	49.60	\$30,026	11.00	\$0	\$42,409	\$12,383	73.60																	
143128P5TL	Q1- P-5 Extra Travel for Q1 Contract Mgmt	02-Jan-13	30-Sep-13	37.80	\$0	0.00	\$0	\$6,600	\$6,600	73.60																	
143128PC13I	Q1- Contract Oversight Consultant FY13	02-Jan-13	30-Sep-13	37.80	\$0	0.00	\$0	\$9,000	\$9,000	73.60																	
14312909LOE	Q1- FY09 Proj Mngmnt H-C upgrade	02-Jan-09	30-Sep-09	37.80	\$21,665	8.43	\$0	\$21,665	\$0	50.00																	
14312910LOE	Q1- FY10 Proj Mngmnt H-C upgrade	01-Oct-09	30-Sep-10	49.60	\$58,194	21.94	\$0	\$58,194	\$0	50.00																	
14312911LOE	Q1- FY11 Proj Mngmnt H-C upgrade	01-Oct-10	30-Sep-11	49.60	\$60,054	21.94	\$0	\$60,054	\$0	50.00																	
14312912LOE	Q1- FY12 Proj Mngmnt H-C upgrade	03-Oct-11	28-Sep-12	49.40	\$61,713	21.85	\$0	\$61,713	\$0	50.00																	
14312913LOE	Q1- FY13 Proj Mngmnt H-C upgrade	01-Oct-12	30-Sep-13	49.60	\$64,117	22.00	\$0	\$64,117	\$0	50.00																	
<b>1.4.3.1.3 Q2-3 QUADRUPOLE</b>		<b>14-Dec-09</b>	<b>09-Mar-15</b>	<b>258.60</b>	<b>\$166,789</b>	<b>66.25</b>	<b>\$2,980,000</b>	<b>\$3,224,303</b>	<b>\$77,514</b>	<b>48.80</b>																	
14313000M	Q2&3- Award Contract for SHMS Q2/Q3 quadrupoles	18-Oct-10*		0.00	\$0	0.00	\$0	\$0	\$0	0.00																	
14313002	Q2&3- Contractor Expenses	18-Oct-10	12-Nov-10	4.00	\$0	0.00	\$75,967	\$75,967	\$0	75.80																	
14313002a	Reverse Entry per CR 11-017	01-Dec-10	07-Dec-10	1.00	\$0	0.00	(\$75,967)	(\$75,967)	\$0	80.80																	
14313005	Q2&3- Finalize Dsgn for Q2/Q3 Mags Original Expenses	15-Nov-10	30-Nov-10	2.00	\$0	0.00	\$0	\$597	\$597	75.80																	
14313006	Vend Fab Q2&3 Peg Point #1 Intermediate Design Review	07-Dec-10	30-Jun-11	27.80	\$0	0.00	\$158,700	\$158,700	\$0	60.00																	
14313010	Vend Fab Q2&3 Peg Point #2a Final Design Review	07-Dec-10	30-Dec-11	52.20	\$0	0.00	\$441,300	\$441,300	\$0	60.00																	
14313015	Vend Fab Q2&3 Peg Point #2b Final Design Review	01-Apr-11	30-Dec-11	37.20	\$0	0.00	\$48,400	\$48,400	\$0	60.00																	
14313017	Vend Fab Q2&3 Peg Point #3 Cryostat Component Complete	01-Apr-11	30-Apr-12	53.80	\$0	0.00	\$432,250	\$432,250	\$0	60.00																	
14313018	Vend Fab Q2&3 Peg Point #4a Cold Mass Fiducialization	01-Apr-11	28-Sep-12	75.00	\$0	0.00	\$319,350	\$319,350	\$0	60.00																	
14313019	Vend Fab Q2&3 Peg Point #4b Cold Mass Fiducialization	02-Apr-12	28-Sep-12	25.40	\$0	0.00	\$112,900	\$112,900	\$0	60.00																	
14313019a	Vend Fab Q2&3 Peg Point #5 Shipment	02-Apr-12	31-Jul-13	66.60	\$0	0.00	\$1,321,000	\$1,321,000	\$0	60.00																	
14313019b	Vend Fab Q2&3 Peg Point #6 Final Acceptance	02-Apr-12	31-Jan-14	91.00	\$0	0.00	\$146,100	\$146,100	\$0	67.60																	
14313020	PDR/IDR Site Inspection	03-Jun-11	30-Jun-11	4.00	\$2,718	1.00	\$0	\$13,510	\$10,792	60.00																	



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	Y2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	
14313235	Q2 and Q3 witness Pressure Tests	09-Sep-14	06-Oct-14	4.00	\$0	0.00	\$0	\$4,829	\$4,829	68.80																		
14313270M	Q2 and Q3 Contract complete		09-Mar-15	0.00	\$0	0.00	\$0	\$0	\$0	13.20																		
14313275	Q2&Q3 Drawing Validation	07-Oct-14	09-Mar-15	20.00	\$23,861	12.00	\$0	\$23,861	\$0	13.20																		
14313P1LOE	Q2&3- P-1 Contract Mngmnt for Q2-3	14-Dec-09	30-Sep-10	39.60	\$18,599	8.00	\$0	\$24,093	\$5,494	67.60																		
14313P2LOE	Q2&3- P-2 Contract Mngmnt for Q2-3	01-Oct-10	30-Sep-11	49.60	\$33,632	13.00	\$0	\$44,971	\$11,338	67.60																		
14313P3LOE	Q2&3- P-3 Contract Mngmnt for Q2-3	03-Oct-11	28-Sep-12	49.40	\$34,706	13.00	\$0	\$41,726	\$7,020	67.60																		
14313P4LOE	Q2&3- P-4 Contract Mngmnt for Q2-3	01-Oct-12	30-Sep-13	49.60	\$35,815	13.00	\$0	\$48,198	\$12,383	67.60																		
14313P5LOE	Q2&3- P-5 Contract Mngmnt for Q2-3	01-Oct-13	31-Jan-14	16.00	\$8,954	3.25	\$0	\$15,145	\$6,191	67.60																		
<b>1.4.3.1.4 DIPOLE</b>		<b>14-Dec-09</b>	<b>12-Jun-14</b>	<b>222.60</b>	<b>\$164,938</b>	<b>66.00</b>	<b>\$2,462,535</b>	<b>\$2,706,290</b>	<b>\$78,817</b>	<b>114.20</b>																		
1431400M5	Dipole- Award Contract for SHMS Dipole Mag	02-Aug-10*		0.00	\$0	0.00	\$0	\$0	\$0	0.00																		
14314002	Dipole- Finalize Dsgn for Dipole Mag (Original Expenses)	02-Aug-10	31-Aug-10	4.40	\$0	0.00	\$0	\$859	\$859	52.60																		
14314003	Dipole- Contractor Expenses	02-Aug-10	27-Aug-10	4.00	\$0	0.00	\$59,334	\$59,334	\$0	48.60																		
14314003a	Dipole Contractor Expenses - Reverse Entry	30-Sep-10	30-Sep-10	0.20	\$0	0.00	(\$59,334)	(\$59,334)	\$0	48.60																		
14314004	Vend Fab Dipole Intermediate Design Review Peg Point #1	30-Sep-10	31-May-11	32.60	\$0	0.00	\$97,500	\$97,500	\$0	48.60																		
14314010	Vend Fab Dipole Coil Tooling Delivered Peg Point #2	30-Sep-10	30-Sep-11	49.80	\$0	0.00	\$461,520	\$461,520	\$0	48.60																		
14314012	Vend Fab Dipole Final Design Review Peg Point #3	30-Sep-10	28-Oct-11	53.80	\$0	0.00	\$97,500	\$97,500	\$0	48.60																		
14314015	Vend Fab Dipole Second Coil Wind Peg Point #4a	30-Sep-10	30-Mar-12	73.80	\$0	0.00	\$43,480	\$43,480	\$0	48.60																		
14314020	Vend Fab Dipole Second Coil Wind Peg Point #4b	01-Apr-11	30-Mar-12	49.60	\$0	0.00	\$348,450	\$348,450	\$0	48.60																		
14314025	Vend Fab Dipole Outer Vessel Completed Peg Point #5a	01-Apr-11	31-May-12	58.20	\$0	0.00	\$251,550	\$251,550	\$0	48.60																		
14314027	Vend Fab Dipole Outer Vessel Completed Peg Point #5b	02-Apr-12	31-May-12	8.60	\$0	0.00	\$185,325	\$185,325	\$0	48.60																		
14314030	Vend Fab Dipole Factory Test Completed Peg Point #6	02-Apr-12	28-Feb-13	45.20	\$0	0.00	\$333,300	\$333,300	\$0	48.60																		
14314030a	Dipole Magnet Shipping	01-Mar-13	11-Apr-13	6.00	\$0	0.00	\$0	\$0	\$0	48.60																		
14314035	Vend Fab Dipole Magnet Accepted Peg Point #7	02-Apr-12	30-Sep-13	75.00	\$0	0.00	\$159,910	\$159,910	\$0	51.60																		
14314035a	Dipole HC Test	06-Jun-14	12-Jun-14	1.00	\$7,623	3.00	\$0	\$7,623	\$0	17.20																		
14314036	Dipole- Intermediate Design Review	03-May-11	31-May-11	4.00	\$2,718	1.00	\$0	\$7,253	\$4,535	48.60																		
14314040	Dipole Drawing Validation	21-Jan-14	27-May-14	17.80	\$23,861	12.00	\$0	\$23,861	\$0	41.60																		
14314045	Dipole- Final Design Review	03-Oct-11	28-Oct-11	4.00	\$2,805	1.00	\$0	\$7,485	\$4,680	48.60																		
14314047	Dipole Inspect Coil	05-Mar-12	30-Mar-12	4.00	\$2,805	1.00	\$0	\$7,485	\$4,680	96.40																		
14314048	Dipole Inspect Cold Mass	13-Dec-12	17-Jan-14	4.00	\$2,894	1.00	\$0	\$7,724	\$4,829	41.60																		
14314049	Dipole Witness Final Factory Tests	09-Oct-13	05-Nov-13	4.00	\$2,894	1.00	\$0	\$7,724	\$4,829	68.40																		
14314050M	Dipole Ready for Installation	20-Nov-13		0.00	\$0	0.00	\$0	\$0	\$0	17.60																		
14314051M	Dipole Contract Complete	28-May-14		0.00	\$0	0.00	\$0	\$0	\$0	41.60																		
14314100	Planning Package SigmaPhi Phase 1 (Coil Development)	02-Jan-13	29-Mar-13	12.20	\$0	0.00	\$250,000	\$250,000	\$0	148.60																		
14314110	Planning Package SigmaPhi Phase 2 (Conductor consolidation, VPI )	01-Apr-13	30-Sep-13	25.60	\$0	0.00	\$234,000	\$234,000	\$0	148.60																		
14314P1LOE	Dipole- P-1 Contract Mngmnt for Dipole	14-Dec-09	30-Sep-10	39.60	\$23,867	10.00	\$0	\$32,657	\$8,790	73.60																		
14314P2LOE	Dipole- P-2 Contract Mngmnt for Dipole	01-Oct-10	30-Sep-11	49.60	\$33,632	13.00	\$0	\$42,703	\$9,071	73.60																		
14314P3LOE	Dipole- P-3 Contract Mngmnt for Dipole	03-Oct-11	28-Sep-12	49.40	\$34,706	13.00	\$0	\$44,066	\$9,360	73.60																		
14314P4LOE	Dipole- P-4 Contract Mngmnt for Dipole	01-Oct-12	30-Sep-13	49.60	\$27,132	10.00	\$0	\$39,515	\$12,383	73.60																		
14314P4TLOE	Dipole- P-4 Contract Extra Travel	02-Jan-13	30-Sep-13	37.80	\$0	0.00	\$0	\$14,800	\$14,800	73.60																		
<b>1.4.3.1.5 MAGNET COMPONENTS PROCURED BY JLAB</b>		<b>02-Jan-09</b>	<b>02-Jan-14</b>	<b>248.00</b>	<b>\$810,514</b>	<b>357.40</b>	<b>\$5,264,832</b>	<b>\$6,207,145</b>	<b>\$131,799</b>	<b>136.60</b>																		
14315000	Design DC Pwr Sys for All Mag (IPL)	15-Dec-09	20-Jan-10	4.00	\$19,916	8.50	\$0	\$19,916	\$0	47.00																		
14315002	Bidding Process DC Pwr Sys for HB & Q1 Mag	30-Aug-10	29-Dec-10	16.00	\$0	0.00	\$0	\$0	\$0	47.00																		
14315003	Bidding Process DC Pwr Sys for Q2/Q3/Dipole Mag	30-Aug-10	29-Dec-10	16.00	\$0	0.00	\$0	\$0	\$0	47.00																		
14315007	Test & Integrate DC Pwr Sys for all magnets	01-Oct-13	02-Jan-14	12.00	\$40,239	17.00	\$0	\$40,239	\$0	16.80																		
14315010	Design Superconductor for Q2/3 and Dipole	02-Jan-09	30-Jan-09	4.00	\$12,090	5.30	\$0	\$12,090	\$0	165.20																		
14315012	Bidding Process Superconductor for Q2/3 and Dipole	10-Jun-09	05-Aug-09	8.00	\$0	0.00	\$0	\$0	\$0	84.80																		
14315015	Procure and Extrude Copper Stabilizer	03-May-10	21-Dec-10	32.40	\$0	0.00	\$214,142	\$214,142	\$0	48.60																		
14315015A	Solder SC Cable to Extrusion	06-Aug-10	25-Jan-11	22.60	\$0	0.00	\$181,696	\$181,696	\$0	50.60																		
14315015A5	Completion of Solder SC Cable to Extrusion Part A	02-May-11	13-May-11	2.00	\$0	0.00	\$92,000	\$92,000	\$0	50.60																		
14315015A5a	Completion of Solder SC Cable to Extrusion Part B	02-May-11	13-May-11	2.00	\$0	0.00	\$15,000	\$15,000	\$0	50.60																		
14315015B	Obtain RRR Measurement of Copper Part A	06-Aug-10	25-Jan-11	22.60	\$0	0.00	\$12,500	\$12,500	\$0	48.60																		
14315015Ba	Obtain RRR Measurement of Copper Part B	06-Aug-10	25-Jan-11	22.60	\$0	0.00	\$12,500	\$12,500	\$0	48.60																		
14315016	Inspect & Ship Superconductor for Q2/3 and Dipole to ReRolling Facility	26-Jan-11	09-Mar-11	6.00	\$24,793	11.00	\$0	\$37,265	\$12,472	48.60																		
14315018	ReRoll Superconductor Prototype Run	02-May-11	27-May-11	4.00	\$0	0.00	\$15,000	\$15,000	\$0	48.60																		

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
14315020	Ship Superconductor for Q2/3 and Dipole to Magnet Vendor	31-May-11	27-Jun-11	4.00	\$0	0.00	\$0	\$12,500	\$12,500	48.60																		
14315022	Bidding Process Cryo Reservoirs for All Mag	26-May-09	04-Aug-09	10.00	\$0	0.00	\$0	\$0	\$0	79.80																		
14315025	Vend Fab Cryo Reservoirs Receipt of Materials less Electric Cylinders and LVDTs	04-Jan-10	29-Jan-10	3.80	\$0	0.00	\$242,300	\$242,300	\$0	60.00																		
14315026	Vend Fab Cryo Reservoirs Receipt of Electric Cylinders and LVDTs	04-Jan-10	31-Mar-10	12.20	\$0	0.00	\$134,500	\$134,500	\$0	60.00																		
14315027	Vend Fab Cryo Reservoirs CCR#2 & 3 JT Valves and Bayonets Complete	04-Jan-10	31-Aug-10	33.60	\$0	0.00	\$52,000	\$52,000	\$0	60.00																		
14315027A	Vend Fab Cryo Reservoirs CCR#2 & 3 Complete	04-Jan-10	30-Dec-10	49.40	\$0	0.00	\$42,000	\$42,000	\$0	60.00																		
14315027B	Vend Fab Cryo Reservoirs CCR#2 & 3 Approved Acceptance Test/Shipment	04-Jan-10	31-Jan-11	53.40	\$0	0.00	\$69,100	\$69,100	\$0	60.00																		
14315027C	Vend Fab Cryo Reservoirs CCR#1 Test and Fabrication Documentation	04-Jan-10	28-Feb-11	57.20	\$0	0.00	\$28,000	\$28,000	\$0	60.00																		
14315027D	Vend Fab Cryo Reservoirs CCR#4 5 & 6 JT Valves and Bayonets Complete	04-Jan-10	31-Aug-10	33.60	\$0	0.00	\$78,000	\$78,000	\$0	60.00																		
14315027F	Vend Fab Cryo Reservoirs CCR#4 5 & 6 Complete	04-Jan-10	31-Oct-11	91.60	\$0	0.00	\$63,000	\$63,000	\$0	60.00																		
14315027G	Vend Fab Cryo Reservoirs CCR#4 5 & 6 Approved Acceptance Test/Shipment	04-Jan-10	29-Dec-11	98.80	\$0	0.00	\$101,900	\$101,900	\$0	60.00																		
14315027H	Vend Fab Cryo Reservoirs CCR#4 5 & 6 Test and Fabrication Documentation	04-Jan-10	31-Jan-12	103.00	\$0	0.00	\$42,100	\$42,100	\$0	60.00																		
14315027J	Vend Fab Cryo Reservoirs CCR#4 5 & 6 Vendor Change Order	01-Sep-10	01-Sep-10	0.20	\$0	0.00	\$21,000	\$21,000	\$0	129.20																		
14315028	Inspect & Ship Cryo Reservoirs for HB & Q1 magnets	01-Feb-11	29-Apr-11	12.60	\$45,713	21.00	\$0	\$54,784	\$9,071	107.20																		
14315029	Inspect & Ship Cryo Reservoirs for Q2/3 & Dipole magnets	30-Dec-11	28-Feb-12	8.00	\$64,486	28.00	\$0	\$82,036	\$17,550	60.00																		
14315030	Design Instruments & Controls for All Mag FY09	02-Jul-09	30-Sep-09	12.60	\$19,941	8.76	\$0	\$19,941	\$0	79.00																		
14315030b	Design Instruments & Controls for All Mag FY10	01-Oct-09	21-May-10	31.40	\$51,283	21.84	\$0	\$51,283	\$0	79.00																		
14315031M	Q1 Magnet Vendor Receipt of Cryoreservoir		29-Apr-11	0.00	\$0	0.00	\$0	\$0	\$0	107.20																		
14315032	Bidding Process Instruments & Controls for All Mag	24-May-10	28-May-10	1.00	\$0	0.00	\$0	\$0	\$0	79.00																		
14315035	Proc Instruments & Controls for HB and Q1 magnets	01-Jun-10	03-Dec-10	26.00	\$0	0.00	\$343,920	\$343,920	\$0	79.00																		
14315036	Proc Instruments & Controls for Q2/3 and Dipole magnets Part A	05-Mar-12	05-Sep-12	26.00	\$0	0.00	\$133,000	\$133,000	\$0	52.20																		
14315036a	Proc Instruments & Controls for Q2/3 and Dipole magnets Part B	01-Feb-13	30-Sep-13	33.60	\$0	0.00	\$137,243	\$137,243	\$0	52.20																		
14315037	Assemble & Test Instruments & Controls Phase 3 FY12	16-Apr-12	28-Sep-12	23.40	\$115,341	52.37	\$0	\$115,341	\$0	52.20																		
14315037a	Assemble & Test Instruments & Controls Phase 2 (FY11)	05-May-11	26-Sep-11	20.00	\$69,550	33.00	\$0	\$69,550	\$0	79.00																		
14315037b	Assemble & Test Instruments & Controls Phase 3 FY13	01-Oct-12	15-Apr-13	26.20	\$133,269	58.63	\$0	\$133,269	\$0	52.20																		
14315038	Assemble & Test Instruments & Controls Phase 1 (FY10)	06-Dec-10	04-May-11	20.00	\$69,550	33.00	\$0	\$69,550	\$0	79.00																		
14315042	Bidding Process Iron Yoke for Q2/3 and Dipole	05-Mar-09	25-Jun-09	16.00	\$0	0.00	\$0	\$0	\$0	167.20																		
14315043	Dipole Top and Bottom Plates	12-Jan-12	03-Jul-12	24.00	\$0	0.00	\$190,000	\$190,000	\$0	114.00																		
14315044LOE	Travel Expenses to Yoke Steel Casting Vendor FY12	01-Feb-12	28-Sep-12	33.80	\$0	0.00	\$0	\$31,530	\$31,530	81.80																		
14315044LOF	Travel Expenses to Yoke Steel Casting Vendor FY13	01-Oct-12	28-Feb-13	19.80	\$0	0.00	\$0	\$19,059	\$19,059	81.80																		
14315045	Vend Fab Yoke Steel Planning for Dipole, Q2, Q3 Delivered & Accepted	12-Jan-12	30-Mar-12	11.00	\$0	0.00	\$10,000	\$10,000	\$0	41.60																		
14315045A	Vend Fab Yoke Steel Receipt of Steel Material Inspected	12-Jan-12	31-May-12	19.60	\$0	0.00	\$262,000	\$262,000	\$0	41.60																		
14315045B	Vend Fab Yoke Steel 1st Article: 1st Dipole/Yoke/Casting Inspt/Accept	12-Jan-12	29-Jun-12	23.60	\$0	0.00	\$150,000	\$150,000	\$0	41.60																		
14315045C	Vend Fab Yoke Steel SHMS Dipole Casting/ Annealing Comp. Casting Delv/Accept	12-Jan-12	31-Aug-12	32.60	\$0	0.00	\$558,000	\$558,000	\$0	81.80																		
14315045D	Vend Fab Yoke Steel SHMS Q3 Cast/Annel Comp. Cast Deliv/Accept	12-Jan-12	31-Oct-12	41.00	\$0	0.00	\$190,000	\$190,000	\$0	81.80																		
14315045F	Vend Fab Yoke Steel SHMS Q2 Cast/Annel Comp. Cast Deliv/Accept	12-Jan-12	28-Feb-13	56.20	\$0	0.00	\$128,000	\$128,000	\$0	81.80																		
14315046	Large Magnet Yoke Machining	16-Jul-12	28-Jun-13	47.60	\$0	0.00	\$480,000	\$480,000	\$0	41.60																		
14315046a	Vend Fab Yoke supports and cylinders	03-Feb-12	24-Jul-12	24.00	\$0	0.00	\$108,350	\$108,350	\$0	75.80																		
14315046b	Procure Yoke Hardware	25-Jul-12	17-Oct-12	12.00	\$0	0.00	\$15,000	\$15,000	\$0	75.80																		
14315050LOE	Procurement Oversight	01-May-09	30-Sep-09	21.20	\$18,822	8.00	\$0	\$25,070	\$6,249	148.60																		
14315050LOF	Procurement Oversight	01-Oct-09	30-Sep-10	49.60	\$19,423	8.00	\$0	\$25,871	\$6,448	148.60																		
14315050LOI	Procurement Oversight	01-Oct-10	29-Sep-11	49.40	\$20,042	8.00	\$0	\$26,696	\$6,654	148.60																		
14315050LOJ	Procurement Oversight FY11	30-Sep-11	30-Sep-11	0.20	\$81	0.03	\$0	\$108	\$27	148.60																		
14315050LOK	Procurement Oversight FY12	03-Oct-11	27-Sep-12	49.20	\$20,599	7.97	\$0	\$27,437	\$6,838	148.60																		
14315050LOL	Procurement Oversight FY13	02-Jan-13	30-Sep-13	37.80	\$21,343	8.00	\$0	\$21,343	\$0	148.60																		
14315055	Procure Burnout Resistant Current Leads	03-May-10	28-May-10	4.00	\$0	0.00	\$95,500	\$95,500	\$0	64.40																		
14315060	Vend Fab DCPS - Design & Approval	30-Sep-10	28-Feb-11	19.60	\$0	0.00	\$225,000	\$225,000	\$0	47.00																		
14315065	Vend Fab DCPS - Materials in-house to start prod: Items 1&2	30-Sep-10	29-Apr-11	28.40	\$0	0.00	\$159,000	\$159,000	\$0	47.00																		
14315070	Vend Fab DCPS - Materials in-house to start prod: Items 3,4,&5	30-Sep-10	30-Nov-11	58.00	\$0	0.00	\$245,000	\$245,000	\$0	47.00																		
14315075	Vend Fab DCPS - Shipment of Items 1&2	30-Sep-10	29-Feb-12	69.40	\$0	0.00	\$77,000	\$77,000	\$0	47.00																		
14315080	Vend Fab DCPS - Arrival Test of Items 1&2	30-Sep-10	31-May-12	82.40	\$0	0.00	\$28,000	\$28,000	\$0	47.00																		
14315085	Vend Fab DCPS - Shipment of Items 3,4,&5	30-Sep-10	30-Oct-12	103.60	\$0	0.00	\$117,000	\$117,000	\$0	47.00																		
14315090	Vend Fab DCPS - Arrival Test of Items 3,4,&5	30-Sep-10	29-Mar-13	123.20	\$0	0.00	\$53,320	\$53,320	\$																			









Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
<b>1.4.3.5.4 SCATTERING CHAMBER</b>											24-Jan-14: 1.4.3.5.4 SCATTERING CHAMBER																
14354005	Modify Existing Chamb Cylinder (SCATTER CHAMB)	05-Jan-11	24-Jan-14	151.60	\$58,815	29.00	\$114,523	\$205,191	\$31,852	131.60																	
14354008	Proc & Fab Chamb Flanges (SCATTER CHAMB)	15-Apr-13	06-Aug-13	16.00	\$0	0.00	\$0	\$10,000	\$10,000	154.20																	
14354010	Proc & Install Chamb Flanges (SCATTER CHAMB)	08-Apr-11	01-Aug-11	16.00	\$4,441	2.00	\$0	\$4,441	\$0	150.20																	
14354015	Proc & Install HMS & SHMS Window Frames (SCATTER CHAMB) FY11	02-Aug-11	30-Sep-11	8.60	\$7,172	3.76	\$0	\$7,172	\$0	150.20																	
14354015a	Proc & Install HMS & SHMS Window Frames (SCATTER CHAMB) FY12	03-Oct-11	22-Nov-11	7.40	\$6,368	3.24	\$0	\$6,368	\$0	150.20																	
14354020	Proc & Install HMS & SHMS Blank Covers (SCATTER CHAMB)	23-Nov-11	29-Dec-11	4.00	\$7,707	4.00	\$0	\$7,707	\$0	150.20																	
14354025	Proc Turbo Pump Sys (SCATTER CHAMB)	01-Feb-13	06-Aug-13	26.00	\$0	0.00	\$44,671	\$44,671	\$0	74.40																	
14354030	Proc & Install Gate Valves, BL adaptors & Vac Gauges (SCATTER CHAMB) Original Labor	30-Dec-11	31-Jan-12	4.20	\$7,380	3.64	\$0	\$16,746	\$9,366	150.20																	
14354030a	Proc & Install Gate Valves, BL adaptors & Vac Gauges (SCATTER CHAMB) Revised La...	01-Oct-13	24-Jan-14	15.00	\$19,583	9.36	\$0	\$28,554	\$8,971	51.80																	
14354030b	Proc & Install Gate Valves, BL adaptors & Vac Gauges (SCATTER CHAMB) Revised Proc...	01-Oct-13	24-Jan-14	15.00	\$0	0.00	\$36,220	\$36,220	\$0	51.80																	
<b>1.4.3.5.5 BEAM PIPE &amp; STANDS</b>											02-Jan-15: 1.4.3.5.5 BEAM PIPE & STANDS																
14355005	Proc 1st Pipe (Beam Pipe)	23-Jan-14	28-Jul-14	26.00	\$17,411	8.00	\$13,715	\$31,126	\$0	4.20																	
14355010	Proc 2nd Section of Beam Pipe (Beam Pipe)	28-Aug-13	12-Mar-14	26.00	\$21,388	10.00	\$21,177	\$42,565	\$0	5.40																	
14355015	Proc 3rd Section of Beam Pipe (Beam Pipe)	28-Aug-13	12-Mar-14	26.00	\$23,376	11.00	\$26,151	\$52,014	\$2,487	5.40																	
14355020	Proc Windows & Window Spool (Beam Pipe)	21-Mar-14	23-Sep-14	26.00	\$34,800	15.00	\$34,892	\$69,692	\$0	16.20																	
14355025	Proc Beam Stands (Beam Pipe)	21-Mar-14	23-Sep-14	26.00	\$0	0.00	\$17,446	\$17,446	\$0	4.20																	
14355030	Proc Vac Fittings (Beam Pipe)	24-Sep-14	02-Jan-15	13.00	\$0	0.00	\$14,572	\$14,572	\$0	4.20																	
<b>1.4.3.6 INFRASTRUCTURE</b>											01-Oct-12: 02-Mar-15: 1.4.3.6 INFRASTRUCTURE																
<b>1.4.3.6.2 SUPPORT STRUCTURE</b>											01-Oct-12: 1.4.3.6.2 SUPPORT STRUCTURE																
14362000M	Award Contract to Dsgn the Supprt Struct	02-Nov-09	01-Oct-12	144.40	\$605,232	264.48	\$1,705,859	\$2,329,202	\$18,112	198.00																	
14362005	Finalize Dsgn of Supprt Struct	02-Nov-09	30-Sep-10	45.20	\$20,496	9.23	\$50,697	\$71,193	\$0	71.20																	
14362006	SS/SH Engineering Support FY10	01-Sep-10	30-Sep-10	4.20	\$51,657	23.25	\$909	\$52,566	\$0	71.20																	
14362007	SS/SH Engineering Support FY11	01-Oct-10	30-Sep-11	49.60	\$0	0.00	\$139,307	\$139,307	\$0	71.20																	
14362010M	Review Final Dsgn of Supprt Struct		27-Oct-10	0.00	\$0	0.00	\$0	\$0	\$0	73.20																	
14362011	SS/SH Engineering Support FY12	03-Oct-11	28-Sep-12	49.40	\$0	0.00	\$127,778	\$127,778	\$0	71.20																	
14362011a	DUMMY	01-Oct-12	01-Oct-12	0.20	\$0	0.00	\$0	\$0	\$0	49.40																	
14362012	Produce Drawings - Rails & Base of Supprt Struct	02-Dec-10	05-Jan-11	3.80	\$25,810	12.00	\$0	\$25,810	\$0	73.20																	
14362013	Procurement Prep - Rails & Base of Supprt Struct	10-Feb-11	08-Mar-11	3.60	\$5,436	2.00	\$0	\$5,436	\$0	81.40																	
14362015	PreFab Rails & Base of Supprt Struct	07-Dec-11	04-May-12	20.00	\$7,536	3.00	\$82,552	\$90,088	\$0	43.40																	
14362016	Produce Drawings - Pivot Sections of Supprt Struct	06-Jan-11	03-Feb-11	4.00	\$25,810	12.00	\$0	\$25,810	\$0	73.20																	
14362017	Procurement Prep - Pivot Sections of Supprt Struct	09-Mar-11	05-Apr-11	4.00	\$5,436	2.00	\$0	\$5,436	\$0	86.80																	
14362020	PreFab Pivot Sections of Supprt Struct	07-Dec-11	19-Jun-12	26.00	\$5,610	2.00	\$61,914	\$73,561	\$6,037	54.60																	
14362021	Produce Drawings - Mag Section of Supprt Struct	11-Jul-11	10-Aug-11	4.60	\$30,395	14.00	\$0	\$30,395	\$0	73.20																	
14362022	Procurement Prep - Mag Section of Supprt Struct	11-Aug-11	06-Sep-11	3.60	\$5,436	2.00	\$0	\$5,436	\$0	73.20																	
14362025	PreFab Mag Section #20 of Supprt Struct	07-Dec-11	04-May-12	20.00	\$32,243	14.00	\$157,461	\$195,741	\$6,037	60.60																	
14362026	Produce Drawings - Detector Section of Supprt Struct	06-Apr-11	02-May-11	3.80	\$25,810	12.00	\$0	\$25,810	\$0	73.20																	
14362027	Procurement Prep - Detector Section of Supprt Struct	03-May-11	27-May-11	3.80	\$5,436	2.00	\$0	\$5,436	\$0	75.60																	
14362030	PreFab Detector Section #30 of Supprt Struct	05-Jan-12	25-May-12	20.00	\$7,536	3.00	\$165,160	\$172,696	\$0	57.60																	
14362031	Produce Drawings - Wheel Section of Supprt Struct	06-Jun-11	08-Jul-11	4.80	\$32,262	15.00	\$0	\$32,262	\$0	73.20																	
14362032	Procurement Prep - Wheel Section of Supprt Struct	11-Jul-11	04-Aug-11	3.80	\$5,436	2.00	\$0	\$5,436	\$0	74.00																	
14362035	PreFab Wheel Section of Supprt Struct	05-Jan-12	25-May-12	20.00	\$7,536	3.00	\$152,712	\$166,286	\$6,037	57.60																	
14362035a	PreFab #100 section of Support Structure and Inner Race	04-Jan-12	25-Jun-12	24.00	\$0	0.00	\$63,000	\$63,000	\$0	53.80																	
14362036	Produce Drawings - Mag Mounts of Supprt Struct	08-Mar-11	05-Apr-11	4.20	\$25,810	12.00	\$0	\$25,810	\$0	73.20																	
14362037	Procurement Prep - Mag Mounts of Supprt Struct	04-May-11	31-May-11	3.80	\$5,436	2.00	\$0	\$5,436	\$0	86.80																	
14362040	PreFab Mag Mounts of Supprt Struct	03-Feb-12	26-Jun-12	20.00	\$2,805	1.00	\$0	\$2,805	\$0	53.60																	
14362041	Produce Drawings - Access Platforms of Supprt Struct	04-Feb-11	07-Mar-11	4.20	\$25,810	12.00	\$0	\$25,810	\$0	73.20																	
14362042	Procurement Prep - Access Platforms of Supprt Struct	06-Apr-11	03-May-11	4.00	\$5,436	2.00	\$0	\$5,436	\$0	86.80																	
14362045	PreFab Access Platforms of Supprt Struct	02-Apr-12	21-Aug-12	20.00	\$4,732	2.00	\$82,552	\$87,284	\$0	45.60																	
14362046	Produce Drawings - Bogies	02-Dec-10	11-Jan-11	4.60	\$32,262	15.00	\$0	\$32,262	\$0	81.40																	
14362046a	Produce Drawings - Wheels	28-Oct-10	01-Dec-10	4.60	\$32,262	15.00	\$0	\$32,262	\$0	73.20																	
14362047	Procurement Prep - Bogies	12-Jan-11	09-Feb-11	4.00	\$5,436	2.00	\$0	\$5,436	\$0	81.40																	
14362047a	Procurement Prep - Wheels	02-Dec-10	06-Jan-11	4.00	\$5,436	2.00	\$0	\$5,436	\$0	96.80																	
14362050	PreFab Double Bogies of Supprt Struct	03-Oct-11	11-May-12	30.00	\$15,073	6.00	\$312,504	\$327,577	\$0	59.60																	
14362050a	PreFab Wheels of Supprt Struct	03-Oct-11	11-May-12	30.00	\$9,463	4.00	\$163,496	\$172,959	\$0	59.60																	
14362051	Produce Drawings - Other Compts of Supprt Struct	03-May-11	03-Jun-11	4.60	\$32,262	15.00	\$0	\$32,262	\$0	73.20																	
14362052	Procurement Prep - Other Compts of Supprt Struct	06-Jun-11	01-Jul-11	4.00	\$5,436	2.00	\$0	\$5,436	\$0	74.80																	

— Primary Baseline   
 ■ Remaining Work   
 ◆ Baseline Milestone  
■ Actual Work   
 ■ Critical Remaining Work   
 ◆ Milestone











Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	
14368425	Install QR Magnets (Notebook)	16-May-12	26-Jul-12	10.00	\$10,964	6.00	\$0	\$10,964	\$0	132.20																		
14368430	Install Beam Stands (Beam Pipe)	24-Sep-14	30-Sep-14	1.00	\$26,579	12.00	\$0	\$26,579	\$0	15.20																		
14368435	Install Beam Pipe and Vac Fittings	19-Dec-14	02-Jan-15	1.00	\$1,834	1.00	\$0	\$14,294	\$12,460	4.20																		
14368440	Leak Test Beam Pipe Vac Sys	05-Jan-15	09-Jan-15	1.00	\$0	0.00	\$0	\$32,272	\$32,272	4.20																		
14368445	Install Spool & Bellows for All Magnets	17-Dec-14	05-Feb-15	6.00	\$44,148	21.00	\$0	\$63,333	\$19,184	17.40																		
14368450	Install Windows & Flanges	09-Sep-14	20-Oct-14	6.00	\$17,257	8.00	\$0	\$17,257	\$0	31.20																		
14368455	Install Shutter Exit Window	13-Jun-14	19-Jun-14	1.00	\$22,914	11.00	\$0	\$22,914	\$0	10.60																		
14368460	Install Sieve Slit Sys	16-Feb-15	02-Mar-15	2.00	\$13,126	6.00	\$0	\$72,461	\$59,334	4.20																		
14368465	Install Slit Controls	16-Feb-15	02-Mar-15	2.00	\$2,894	1.00	\$0	\$16,080	\$13,185	4.20																		
14368470	Install Cables & Produce Final Drawings (CABLING)	24-Mar-14	16-Jun-14	12.00	\$116,475	59.00	\$0	\$170,624	\$54,149	11.20																		
14368475	Assemble Iron Yoke for Q3 magnet	23-Oct-14	27-Oct-14	0.60	\$8,860	4.00	\$0	\$8,860	\$0	6.20																		
14368480	Assemble Iron Yoke for Q2 magnet	04-Sep-14	08-Sep-14	0.60	\$8,860	4.00	\$0	\$8,860	\$0	6.20																		
14368485	Inspect & Assemble Upper Iron Yoke & Stands for Dipole magnet	20-Dec-13	27-Jan-14	4.00	\$33,450	15.00	\$0	\$33,450	\$0	17.60																		
14368490	Q2 HC & FF Test	20-Oct-14	24-Oct-14	1.00	\$7,623	3.00	\$0	\$7,623	\$0	12.40																		
14368495	Q2 Cooldown and Acceptance Test	15-Sep-14	24-Oct-14	6.00	\$9,458	4.00	\$0	\$9,458	\$0	5.40																		
14368500	Q3- HC & FF Test	10-Dec-14	16-Dec-14	1.00	\$7,623	3.00	\$0	\$7,623	\$0	5.40																		
14368505	Q3 Cooldown and Acceptance Test	03-Nov-14	16-Dec-14	6.00	\$9,458	4.00	\$0	\$9,458	\$0	5.40																		
<b>1.5 CONSTRUCTION HALL D</b>		01-Oct-08	30-Jun-15	334.20	\$11,941,109	6360.04	\$28,421,706	\$40,689,672	\$326,858	62.20																		
<b>1.5.1 SOLENOID</b>		01-Oct-08	20-Feb-13	216.80	\$686,980	330.42	\$958,817	\$1,657,308	\$11,512	37.00																		
151000	Ship Iron to contractor (SOLENOID)	01-Oct-08	14-Oct-08	2.00	\$0	0.00	\$0	\$0	\$0	185.00																		
151000a	Labr/Exp to Proc/Assy/Test Rack for Coil Control + 1 Module (SOLENOID) FY09	01-Jun-09	30-Sep-09	17.20	\$24,368	11.67	\$0	\$27,439	\$3,071	76.60																		
151000aB	Labr/Exp to Proc/Assy/Test Rack for Coil Control + 1 Module (SOLENOID) FY10	01-Oct-09	17-Dec-09	10.80	\$15,790	7.33	\$0	\$17,780	\$1,990	76.60																		
151000b	Procure Rack for Coil Control + 1 Module Set for 1 Coil (SOLENOID)	14-Jul-09	06-Oct-09	12.00	\$0	0.00	\$125,000	\$125,000	\$0	76.60																		
151000c	Design Test Platform (SOLENOID)	01-Jun-09	01-Sep-09	13.20	\$21,686	11.00	\$0	\$21,686	\$0	80.40																		
151000d	Design Yoke Baffles (SOLENOID)	01-Jul-09	30-Sep-09	12.80	\$19,134	10.00	\$0	\$19,134	\$0	76.40																		
151000e	Write Controls for Solenoid (SOLENOID)	01-Jun-09	29-Sep-09	17.00	\$20,419	8.00	\$0	\$20,419	\$0	76.60																		
151000f	Prepare Procurements/Fabrication Packages 2010 (SOLENOID)	01-Oct-09	04-Jan-10	12.00	\$38,504	19.00	\$0	\$38,504	\$0	76.40																		
151000g	Evaluate Procurements 2010 (SOLENOID)	02-Feb-10	02-Apr-10	8.60	\$1,317	0.50	\$0	\$1,317	\$0	76.40																		
151000h	Track Fabrication 2010 (SOLENOID)	03-May-10	04-Aug-10	13.20	\$1,317	0.50	\$0	\$1,317	\$0	76.40																		
151000i	Acceptance Checks/Documentation 2010 (SOLENOID)	28-May-10	27-Aug-10	12.80	\$34,444	13.00	\$0	\$34,444	\$0	76.40																		
151000j	Labor for Procurement Prep of 3 Module Sets for 3 Coils (SOLENOID)	14-Dec-10	04-Jan-11	2.00	\$861	0.50	\$0	\$861	\$0	61.80																		
151000k	Procurement of 3 Module Sets for 3 Coils (SOLENOID) Part A	05-Jan-11	07-Apr-11	13.00	\$0	0.00	\$120,584	\$120,584	\$0	61.80																		
151000ka	Procurement of 3 Module Sets for 3 Coils (SOLENOID) Part B	05-Jan-11	07-Apr-11	13.00	\$0	0.00	\$13,000	\$13,000	\$0	61.80																		
151001	Modify Iron Pole (SOLENOID)	15-Oct-08	11-Dec-08	8.00	\$0	0.00	\$0	\$0	\$0	185.00																		
151002	Ship Iron to Jlab (SOLENOID)	12-Dec-08	02-Jan-09	2.00	\$0	0.00	\$0	\$0	\$0	185.00																		
151009E	FY09 Travel (SOLENOID)	02-Jan-09	30-Sep-09	37.80	\$0	0.00	\$0	\$920	\$920	86.20																		
151010E	FY10 Travel (SOLENOID)	01-Oct-09	30-Sep-10	49.60	\$0	0.00	\$0	\$1,245	\$1,245	86.20																		
151011E	FY11 Travel (SOLENOID)	01-Oct-10	30-Sep-11	49.60	\$0	0.00	\$0	\$1,286	\$1,286	86.20																		
151015	Dsgn Ring Girders (SOLENOID)	05-Jan-10	03-Mar-10	8.00	\$22,379	11.00	\$0	\$22,379	\$0	127.40																		
151020	Control Cabling fab (SOLENOID)	01-Oct-09	04-Jan-10	12.00	\$8,900	5.00	\$3,296	\$12,197	\$0	103.40																		
151023	Design Iron Spacers (SOLENOID)	05-Jan-10	03-Mar-10	8.00	\$9,872	5.00	\$0	\$9,872	\$0	103.40																		
151025	Fab Iron Spacers (SOLENOID)	04-Mar-10	20-Aug-10	24.00	\$2,634	1.00	\$121,965	\$124,599	\$0	103.40																		
151030	Dsgn Missing Mounts (SOLENOID)	05-Jan-10	02-Feb-10	4.00	\$6,746	3.50	\$0	\$6,746	\$0	107.40																		
151033	Fabricate Missing Mounts (SOLENOID)	03-Feb-10	31-Mar-10	8.00	\$2,634	1.00	\$8,790	\$11,424	\$0	107.40																		
151035	Fab Ring Girders (SOLENOID)	01-Apr-10	23-Jul-10	16.00	\$3,127	1.50	\$43,951	\$47,078	\$0	107.40																		
151040	Fab Stands (SOLENOID)	05-Jan-10	28-Apr-10	16.00	\$4,304	2.00	\$16,308	\$20,612	\$0	119.40																		
151045	Set Up Solenoid Test Area (SOLENOID) (IPL 551400LOE)	30-Aug-11	29-Sep-11	4.40	\$51,919	26.00	\$5,670	\$57,589	\$0	22.40																		
151050	Move Solenoid to H-D (SOLENOID) (IPL 551360)	03-Oct-11	21-Oct-11	3.00	\$4,582	2.00	\$70,200	\$74,783	\$0	48.20																		
151055	Install DC Sys (SOLENOID)	13-Jan-12	02-Mar-12	6.80	\$17,026	9.00	\$5,850	\$22,876	\$0	22.40																		
151060	Install Solenoid Stands (SOLENOID)	03-Oct-11	21-Oct-11	3.00	\$23,386	12.00	\$4,680	\$28,066	\$0	29.60																		
151065	Install Solenoid Controls (SOLENOID) (IPL)	13-Jan-12	02-Mar-12	6.80	\$19,830	10.00	\$3,510	\$23,340	\$0	22.40																		
151070	Install DC Buswork (SOLENOID)	04-May-12	01-Jun-12	4.00	\$18,952	10.00	\$23,400	\$42,353	\$0	22.40																		
151075	Test DC Sys (SOLENOID)	04-May-12	01-Jun-12	4.00	\$12,439	6.00	\$0	\$12,439	\$0	22.40																		
151080	Install Controls Cabling (SOLENOID)	04-May-12	01-Jun-12	4.00	\$56,278	30.00	\$3,510	\$59,788	\$0	22.40																		
151085	Install Yoke mounts (SOLENOID)	03-Oct-11	21-Oct-11	3.00	\$12,271	6.30	\$0	\$12,271	\$0	29.60																		
151090	Install Yoke 1 (SOLENOID)	17-Oct-11	21-Oct-11	1.00	\$1,850	0.90	\$9,360	\$11,210	\$0	29.60																		
151095	Install Coil 1 (SOLENOID)	24-Oct-11																										





Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
15211035a	Proc Chamb Preamps (ASIC Dsgn) (FWD Chambers) Labor FY11	01-Oct-10	06-Jan-11	12.40	\$3,945	9.54	\$0	\$3,945	\$0	43.20																	
15211035b	ASIC Fabrication (FDC&CDC)	07-Mar-11	27-May-11	12.00	\$0	0.00	\$160,000	\$160,000	\$0	14.40																	
15211050	Proc Cables,Connectors (HV, LV, Signal, Gas) (FWD Chambers)	05-Jan-11	11-Jul-11	26.00	\$0	0.00	\$86,172	\$86,172	\$0	33.40																	
15211060	Proc Cooling Sys (FWD Chambers) Part A	01-Jul-11	30-Sep-11	12.80	\$0	0.00	\$14,472	\$14,472	\$0	68.20																	
15211060a	Proc Cooling Sys (FWD Chambers) Part B	01-Jul-11	30-Sep-11	12.80	\$0	0.00	\$10,472	\$10,472	\$0	68.20																	
15211070	Proc Gas Connections (FWD Chambers)	05-Jan-11	11-Jul-11	26.00	\$0	0.00	\$56,692	\$56,692	\$0	46.20																	
15211075	Proc Supprt Frame (FWD Chambers) Part A	03-Oct-11	13-Feb-12	17.40	\$0	0.00	\$37,476	\$37,476	\$0	50.80																	
15211075a	Proc Supprt Frame (FWD Chambers) Part B	03-Oct-11	13-Feb-12	17.40	\$0	0.00	\$3,800	\$3,800	\$0	50.80																	
15211080	Test PC Boards (G10) (FWD Chambers) FY10	21-Sep-10	30-Sep-10	1.50	\$2,653	1.60	\$0	\$2,653	\$0	31.70																	
15211080a	Test PC Boards (G10) (FWD Chambers) FY11	30-Sep-10	10-Nov-10	5.80	\$9,746	5.70	\$0	\$9,746	\$0	31.70																	
15211085	Test PC Boards (Flex) (FWD Chambers)	17-Nov-10	14-Mar-11	14.70	\$25,149	14.70	\$0	\$25,149	\$0	11.60																	
15211090	Test Wire (Field, sense) (FWD Chambers) FY10	12-Jul-10	30-Sep-10	11.50	\$19,233	11.60	\$0	\$19,233	\$0	34.20																	
15211090a	Test Wire (Field, sense) (FWD Chambers) FY11	30-Sep-10	22-Oct-10	3.30	\$5,299	3.10	\$0	\$5,299	\$0	34.20																	
15211094	Acceptance Preamp Daughter Board (FWD Chambers)	03-Oct-11	22-Jun-12	35.60	\$0	0.00	\$0	\$0	\$0	6.00																	
15211095	Test Electrc's (FWD Chambers)	26-Mar-12	21-Sep-12	25.40	\$38,834	22.00	\$0	\$38,834	\$0	6.20																	
15211100	Fab Setup (FWD Chambers)	05-Jan-10	10-Jun-10	22.00	\$94,679	44.00	\$0	\$94,679	\$0	44.10																	
15211102	Set-up Clean Room for Production	04-Jan-11	22-Feb-11	6.80	\$36,982	18.00	\$0	\$36,982	\$0	17.20																	
15211105	Wire Chamb Frames Prep (FWD Chambers)	24-Nov-10	26-Jan-11	7.30	\$12,576	7.30	\$0	\$12,576	\$0	20.90																	
15211120	Cathode Frame Inspection (FWD Chambers)	15-Mar-11	13-Apr-11	4.40	\$7,580	4.40	\$0	\$7,580	\$0	11.60																	
15211125	Cell #1 Assy. (FWD Chambers)	01-Apr-11	02-May-11	4.40	\$72,579	36.00	\$0	\$72,579	\$0	11.80																	
15211126	Package #1 Fabrication (FWD Chambers)	14-Apr-11	30-Sep-11	23.80	\$193,443	105.00	\$0	\$193,443	\$0	11.60																	
15211130	Package #2 Fabrication (FWD Chambers) FY11	20-Sep-11	30-Sep-11	1.80	\$15,511	8.46	\$0	\$15,511	\$0	11.60																	
15211130a	Package #2 Fabrication (FWD Chambers) FY12	03-Oct-11	05-Mar-12	20.10	\$176,937	93.54	\$0	\$176,937	\$0	11.60																	
15211135	Package #3 Fabrication (FWD Chambers)	21-Feb-12	03-Aug-12	23.20	\$192,942	102.00	\$0	\$192,942	\$0	11.60																	
15211140	G10 PC Board Prep (FWD Chambers)	10-Nov-10	11-Jan-11	7.30	\$12,576	7.30	\$0	\$12,576	\$0	39.40																	
15211141	Package #4 Fabrication (FWD Chambers) FY12	12-Jul-12	28-Sep-12	11.10	\$186,230	98.45	\$0	\$186,230	\$0	11.60																	
15211141a	Package #4 Fabrication (FWD Chambers) FY13	01-Oct-12	02-Oct-12	0.40	\$6,926	3.55	\$0	\$6,926	\$0	11.60																	
15211145	Procurement of Consumables for Fab (2011) (FWD Chambers)	04-Jan-11	30-Sep-11	37.80	\$0	0.00	\$82,200	\$82,200	\$0	38.60																	
15211150	Package #1 Final Assy. and Testing (FWD Chambers)	25-Jun-12	22-Aug-12	8.60	\$32,893	15.00	\$0	\$32,893	\$0	3.00																	
15211155	Mount on-Chamb Electrc's (FWD Chambers)	17-Nov-10	31-Dec-10	5.20	\$8,957	5.24	\$0	\$8,957	\$0	85.00																	
15211155a	Package #2 Final Assy. and Testing (FWD Chambers) FY12	23-Aug-12	28-Sep-12	5.20	\$20,859	9.51	\$0	\$20,859	\$0	3.00																	
15211155aa	Package #2 Final Assy. and Testing (FWD Chambers) FY13	01-Oct-12	19-Oct-12	3.00	\$12,418	5.49	\$0	\$12,418	\$0	3.00																	
15211160	3rd Package Final Assy. and Testing (FWD Chambers)	01-Oct-12	04-Dec-12	9.00	\$25,200	12.00	\$0	\$25,200	\$0	3.00																	
15211163	Manufacture All Cables & QA (FWD Chambers)	14-Mar-11	16-Aug-11	22.00	\$75,539	44.00	\$0	\$75,539	\$0	33.40																	
15211163a	Support for procurement of parts for gas system (FWD Chambers)	01-Jun-11	01-Sep-11	13.20	\$10,949	4.00	\$0	\$10,949	\$0	38.60																	
15211164	Construct/ Test Gas System (FWD Chambers)	01-May-12	02-Jul-12	8.60	\$41,732	20.00	\$0	\$41,732	\$0	6.40																	
15211165	4th Package Final Assy. and Testing (FWD Chambers)	05-Dec-12	25-Mar-13	14.20	\$26,313	12.00	\$0	\$26,313	\$0	3.00																	
15211175	Complete Package Assy (FWD Chambers)	31-Jan-13	08-Apr-13	9.40	\$36,974	17.00	\$0	\$36,974	\$0	3.00																	
15211185	Fiducialize complete package (FWD Chambers)	02-Apr-13	08-Apr-13	1.00	\$22,970	9.00	\$0	\$22,970	\$0	3.00																	
15211190	Procurement of Consumables for Fab (2012) (FWD Chambers)	03-Oct-11	28-Sep-12	49.40	\$0	0.00	\$11,867	\$11,867	\$0	13.20																	
15211191	Procurement of Consumables for Fab (2013) (FWD Chambers)	01-Oct-12	01-Mar-13	20.00	\$0	0.00	\$11,926	\$11,926	\$0	13.20																	
15211195	Cell #25 Assy. (FWD Chambers)	03-Aug-12	05-Sep-12	4.40	\$24,136	13.00	\$0	\$24,136	\$0	74.50																	
15211200	Cell #26 Assy. (FWD Chambers)	24-Aug-12	24-Sep-12	4.00	\$24,136	13.00	\$0	\$24,136	\$0	74.50																	
15211205	Cell #27 Assy. (FWD Chambers)	01-Apr-13	26-Apr-13	3.90	\$24,907	13.00	\$0	\$24,907	\$0	48.20																	
15211210	Cell #28 Assy. (FWD Chambers)	19-Apr-13	23-May-13	4.90	\$24,907	13.00	\$0	\$24,907	\$0	48.20																	
15211220	Final Testing (FWD Chambers)	04-Feb-13	01-Apr-13	8.00	\$18,995	8.00	\$0	\$18,995	\$0	4.00																	
15211230	Alignment Procedures (FWD Chambers)	08-Mar-13	21-Mar-13	2.00	\$10,981	6.00	\$0	\$10,981	\$0	5.40																	
15211249	Construct/Install/Test HV Sys (FWD Chambers)	12-Mar-12	15-Jun-12	13.60	\$26,217	14.80	\$0	\$26,217	\$0	6.00																	
15211250	Construct/Install/Test LV Sys (FWD Chambers)	12-Mar-12	15-Jun-12	13.60	\$26,217	14.80	\$0	\$26,217	\$0	6.00																	
1.5.2.1.2 CENTRAL CHAMBERS		02-Jan-09	01-May-13	215.00	\$337,567	398.96	\$486,518	\$829,497	\$5,412	20.60																	
15212000a	Prepare Procurements/Fabrication Packages 2009 (CENT CHAMB)	01-Jun-09	30-Sep-09	17.20	\$31,253	16.00	\$0	\$31,253	\$0	120.00																	
15212000c	Support Parts Fabrication 2010 (CENT CHAMB)	01-Oct-09	15-Jan-10	13.80	\$3,127	1.50	\$0	\$3,127	\$0	138.00																	
15212000d	Acceptance Checks/Documentation 2010 (CENT CHAMB)	19-Jan-10	16-Feb-10	4.00	\$4,936	2.50	\$0	\$4,936	\$0	134.00																	
15212001	FY10 Engineering Support for Assembly Prep (CENT CHAMB)	02-Feb-10	13-Jul-10	22.60	\$4,444	2.00	\$0	\$4,444	\$0	73.40																	
15212002	FY10 Engineering Support for Straw Tube Install (CENT CHAMB) FY10	14-Jul-10	30-Sep-10	11.20	\$2,694	1.29	\$0	\$2,694	\$0	73.40																	





Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023	
15221007	Prepare procurement packages for assembly tooling	03-Oct-11	31-Jan-12	15.60	\$47,790	22.00	\$0	\$47,790	\$0	68.40																		
15221008	Prep Procur Packages Shipping Fixture/Support Frame 2011 (BarCal)	01-Oct-10	04-Jan-11	12.00	\$9,336	5.00	\$0	\$9,336	\$0	121.60																		
15221009	FY12 Engineering Support for Fabrication (BarCal)	23-Feb-12	20-Aug-12	25.20	\$12,268	5.00	\$0	\$12,268	\$0	18.20																		
15221009E	FY09 Travel (BarCal)	02-Jan-09	30-Sep-09	37.80	\$0	0.00	\$0	\$5,626	\$5,626	80.00																		
15221010	Proc SciFi Mods 01-06 (BarCal) P-1	01-Dec-08	29-May-09	24.20	\$0	0.00	\$415,776	\$415,776	\$0	57.80																		
15221010E	FY10 Travel (BarCal)	01-Oct-09	30-Sep-10	49.60	\$0	0.00	\$0	\$7,618	\$7,618	80.00																		
15221011E	FY11 Travel (BarCal)	01-Oct-10	30-Sep-11	49.60	\$0	0.00	\$0	\$7,861	\$7,861	80.00																		
15221012	Proc SciFi Mods 25-30 (BarCal) P-2	01-Jun-09	30-Sep-09	17.20	\$0	0.00	\$417,480	\$417,480	\$0	57.80																		
15221012A	Proc SciFi Mods P-1 Correction to Match award per CR09-052	17-Sep-09	17-Sep-09	0.20	\$0	0.00	(\$1,448)	(\$1,448)	\$0	1.80																		
15221012E	FY12 Travel (BarCal)	03-Oct-11	28-Sep-12	49.40	\$0	0.00	\$0	\$6,591	\$6,591	80.00																		
15221014	Proc SciFi Mods P-2 FY10 October Delivery	09-Sep-09	30-Oct-09	7.60	\$0	0.00	\$103,944	\$103,944	\$0	57.80																		
15221016	Proc SciFi Mods P-2 FY10 November Delivery	09-Sep-09	30-Nov-09	11.40	\$0	0.00	\$103,944	\$103,944	\$0	57.80																		
15221018	Proc SciFi Mods P-2 FY10 December Delivery	09-Sep-09	30-Dec-09	14.80	\$0	0.00	\$103,944	\$103,944	\$0	57.80																		
15221018A	Proc SciFi Mods P-2 FY10 January Delivery	09-Sep-09	29-Jan-10	18.80	\$0	0.00	\$103,944	\$103,944	\$0	57.80																		
15221018B	Proc SciFi Mods P-2 FY10 February Delivery	09-Sep-09	26-Feb-10	22.60	\$0	0.00	\$103,944	\$103,944	\$0	57.80																		
15221018C	Proc SciFi Mods P-2 FY10 March Delivery	09-Sep-09	31-Mar-10	27.20	\$0	0.00	\$103,944	\$103,944	\$0	57.80																		
15221018D	Proc SciFi Mods P-2 FY10 April Delivery	09-Sep-09	30-Apr-10	31.60	\$0	0.00	\$103,944	\$103,944	\$0	57.80																		
15221018F	Proc SciFi Mods P-2 FY10 May Delivery	09-Sep-09	28-May-10	35.60	\$0	0.00	\$103,944	\$103,944	\$0	57.80																		
15221018G	Proc SciFi Mods P-2 FY10 June Delivery	09-Sep-09	30-Jun-10	40.00	\$0	0.00	\$103,944	\$103,944	\$0	57.80																		
15221018H	Proc SciFi Mods P-2 FY10 July Delivery	09-Sep-09	30-Jul-10	44.20	\$0	0.00	\$103,944	\$103,944	\$0	57.80																		
15221018J	Proc SciFi Mods P-2 FY10 August Delivery	09-Sep-09	31-Aug-10	48.60	\$0	0.00	\$103,944	\$103,944	\$0	57.80																		
15221018K	Proc SciFi Mods P-2 FY10 September Delivery	09-Sep-09	30-Sep-10	52.80	\$0	0.00	\$103,944	\$103,944	\$0	57.80																		
15221018N	Proc SciFi Mods P-3 FY11 December Delivery	01-Oct-10	30-Dec-10	11.60	\$0	0.00	\$104,886	\$104,886	\$0	57.80																		
15221018P	Proc SciFi Mods P-3 FY11 January Delivery	01-Oct-10	31-Jan-11	15.60	\$0	0.00	\$104,886	\$104,886	\$0	57.80																		
15221018Q	Proc SciFi Mods P-3 FY11 February Delivery	01-Oct-10	28-Feb-11	19.40	\$0	0.00	\$104,886	\$104,886	\$0	57.80																		
15221018R	Proc SciFi Mods P-3 FY11 March Delivery	01-Oct-10	31-Mar-11	24.00	\$0	0.00	\$104,886	\$104,886	\$0	57.80																		
15221018S	Proc SciFi Mods P-3 FY11 April Delivery	01-Oct-10	29-Apr-11	28.20	\$0	0.00	\$104,886	\$104,886	\$0	57.80																		
15221018T	Proc SciFi Mods P-3 FY11 May Delivery	01-Oct-10	31-May-11	32.40	\$0	0.00	\$104,886	\$104,886	\$0	57.80																		
15221018U	Proc SciFi Mods P-3 FY11 June Delivery	01-Oct-10	30-Jun-11	36.80	\$0	0.00	\$101,772	\$101,772	\$0	57.80																		
15221018V	Proc SciFi Mods P-3 FY11 July Delivery	01-Oct-10	29-Jul-11	40.80	\$0	0.00	\$101,772	\$101,772	\$0	57.80																		
15221018W	Proc SciFi Mods P-3 FY11 August Delivery	01-Oct-10	31-Aug-11	45.40	\$0	0.00	\$101,772	\$101,772	\$0	57.80																		
15221018X	Proc SciFi Mods P-3 FY11 September Delivery	01-Oct-10	30-Sep-11	49.60	\$0	0.00	\$101,772	\$101,772	\$0	57.80																		
15221020	Completion of BCAL assembly work in factory, exchange rate coverage	01-Aug-11	31-May-12	41.40	\$0	0.00	\$311,000	\$311,000	\$0	29.40																		
15221025	Fabrication of matrix #49	01-Aug-11	31-May-12	41.40	\$0	0.00	\$22,400	\$22,400	\$0	25.40																		
15221030	Machining and shipping of matrix #49	01-Aug-11	29-Jun-12	45.40	\$0	0.00	\$4,600	\$4,600	\$0	25.40																		
15221035	Proc Clean Room (BarCal)	01-Apr-09	24-Jun-09	12.00	\$3,107	8.00	\$31,945	\$35,052	\$0	162.00																		
15221040	Proc Fiber Handling & Sorting table (BarCal)	01-Apr-09	24-Jun-09	12.00	\$1,554	4.00	\$3,194	\$4,748	\$0	162.00																		
15221045	Proc 2nd Swaging machine (BarCal)	01-Apr-09	24-Jun-09	12.00	\$0	0.00	\$26,620	\$26,620	\$0	152.80																		
15221050	Proc 2nd press/Frame (BarCal)	31-Aug-09	01-Mar-10	24.00	\$0	0.00	\$30,655	\$30,655	\$0	132.80																		
15221055	Fabricate BCAL Calibration System (BarCal) Labor FY11	02-May-11	30-Sep-11	21.40	\$8,931	5.22	\$0	\$8,931	\$0	33.80																		
15221055a	Fabricate BCAL Calibration System (BarCal) Labor FY12	03-Oct-11	30-Apr-12	28.20	\$12,144	6.88	\$0	\$12,144	\$0	33.80																		
15221055b	Fabricate BCAL Calibration System (BarCal) Procurement	02-May-11	30-Apr-12	49.60	\$0	0.00	\$30,957	\$30,957	\$0	33.80																		
15221057	Installation BCAL Calibration System (BarCal) FY12	03-Aug-12	28-Sep-12	8.00	\$3,538	1.99	\$0	\$3,538	\$0	64.00																		
15221057a	Installation BCAL Calibration System (BarCal) FY13	01-Oct-12	04-Dec-12	9.00	\$4,108	2.24	\$0	\$4,108	\$0	64.00																		
15221057b	Installation BCAL Calibration System (BarCal) Procurements	03-Aug-12	04-Dec-12	17.00	\$0	0.00	\$21,190	\$21,190	\$0	64.00																		
15221060	Proc Lead Sheets 1-6 (BarCal)	05-Jan-09	31-Mar-09	12.00	\$0	0.00	\$24,491	\$24,491	\$0	98.60																		
15221070	Proc Lead Sheets 25-30 (BarCal)	01-Apr-09	24-Jun-09	12.00	\$0	0.00	\$24,491	\$24,491	\$0	98.60																		
15221080	Proc Lead Sheets 7-12 (BarCal)	25-Jun-09	18-Sep-09	12.00	\$0	0.00	\$24,491	\$24,491	\$0	98.60																		
15221090	Proc Lead Sheets 31-36 (BarCal)	21-Sep-09	15-Dec-09	12.00	\$0	0.00	\$24,491	\$24,491	\$0	98.60																		
15221100	Proc Lead Sheets 13-18 (BarCal)	16-Dec-09	19-Mar-10	12.00	\$0	0.00	\$25,272	\$25,272	\$0	98.60																		
15221115	Proc Lead Sheets 37-42 (BarCal)	22-Mar-10	14-Jun-10	12.00	\$0	0.00	\$25,272	\$25,272	\$0	98.60																		
15221130	Proc Lead Sheets 19-24 (BarCal)	15-Jun-10	08-Sep-10	12.00	\$0	0.00	\$25,272	\$25,272	\$0	98.60																		
15221145	Proc Lead Sheets 43-48 (BarCal)	09-Sep-10	03-Dec-10	12.00	\$0	0.00	\$25,272	\$25,272	\$0	98.60																		
15221147	Drawings Winston Cones (BarCal																											





Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	
15221250	Module #6 Matrix Fabrication	31-Aug-09	12-Feb-10	22.00	\$0	0.00	\$12,842	\$12,842	\$0	143.60																		
15221255	Module #6 Machining and Shipping	31-Aug-09	27-Apr-10	32.20	\$0	0.00	\$4,607	\$4,607	\$0	132.40																		
15221260	Module #7 Matrix Fabrication	31-Aug-09	24-Mar-10	27.40	\$0	0.00	\$12,842	\$12,842	\$0	138.20																		
15221265	Module #7 Machining and Shipping	31-Aug-09	27-Apr-10	32.20	\$0	0.00	\$4,607	\$4,607	\$0	132.40																		
15221270	Module #8 Matrix Fabrication	31-Aug-09	24-Mar-10	27.40	\$0	0.00	\$12,842	\$12,842	\$0	138.20																		
15221275	Module #8 Machining and Shipping	31-Aug-09	27-Apr-10	32.20	\$0	0.00	\$4,607	\$4,607	\$0	132.40																		
15221310	Lead Cutting & Swaging Mods 25-30 (BarCal) (FROZEN and Reversed BY CR09-043 A...	25-Jun-09	31-Jul-09	5.20	\$6,059	15.60	\$0	\$6,059	\$0	8.40																		
<b>1.5.2.2.2 FORWARD CALORIMETER</b>		<b>02-Jan-09</b>	<b>30-Dec-13</b>	<b>247.60</b>	<b>\$275,220</b>	<b>229.41</b>	<b>\$118,399</b>	<b>\$396,230</b>	<b>\$2,612</b>	<b>7.40</b>																		
15222001	Prepare Procurements/Fabrication Packages 2009 (FWD CAL)	01-Jul-09	30-Sep-09	12.80	\$18,179	9.00	\$0	\$18,179	\$0	163.00																		
15222002	Prepare Procurements/Fabrication Packages 2010 (FWD CAL)	01-Jul-10	30-Sep-10	12.80	\$28,632	14.00	\$0	\$28,632	\$0	124.40																		
15222003	FY10 Engineering Support for Fabrication (FWD CAL)	01-Oct-09	15-Apr-10	26.20	\$8,887	4.00	\$0	\$8,887	\$0	147.80																		
15222004	Prep Support Struc Procurement Package 2011(FWD CAL)	30-Jun-11	30-Sep-11	13.00	\$15,623	7.00	\$0	\$15,623	\$0	87.80																		
15222005	FY12 Engineering Support for Fabrication (FWD CAL)	16-Apr-12	28-Sep-12	23.40	\$5,532	2.87	\$0	\$5,532	\$0	6.60																		
15222006	FY13 Engineering Support for Fabrication (FWD CAL)	01-Oct-12	29-Jul-13	40.80	\$12,581	5.94	\$0	\$12,581	\$0	6.60																		
15222007	FY11 Engineering Support for Fabrication (FWD CAL)	05-Jan-11	30-Sep-11	37.60	\$25,810	12.00	\$0	\$25,810	\$0	32.60																		
15222009E	FY09 Travel (FWD CAL)	02-Jan-09	30-Sep-09	37.80	\$0	0.00	\$0	\$647	\$647	72.40																		
15222010E	FY10 Travel (FWD CAL)	01-Oct-09	30-Sep-10	49.60	\$0	0.00	\$0	\$876	\$876	72.40																		
15222011E	FY11 Travel (FWD CAL)	01-Oct-10	30-Sep-11	49.60	\$0	0.00	\$0	\$902	\$902	72.40																		
15222012E	FY12 Travel (FWD CAL)	03-Oct-11	30-Dec-11	11.60	\$0	0.00	\$0	\$187	\$187	72.40																		
15222015	Proc Replacement PMTs (FWD CAL)	01-Jul-09	12-Jan-10	26.00	\$0	0.00	\$85,185	\$85,185	\$0	154.80																		
15222025	Setup Divider Constrctn (FWD CAL) (Frozen by CR10-007)	01-Oct-09	30-Nov-09	8.20	\$21,737	8.20	\$0	\$21,737	\$0	41.40																		
15222045	Setup Procedure & Glue LG to PMT's (FWD CAL) (Frozen by CR10-007)	12-Nov-09	25-Nov-09	2.00	\$1,525	3.36	\$0	\$1,525	\$0	160.00																		
15222050	Proc Magnetic Shields (FWD CAL) (Frozen by CR10-007)	01-Oct-09	04-Nov-09	5.00	\$0	0.00	\$61,532	\$61,532	\$0	163.00																		
15222055	Proc Pb Glass Insert PR	01-Feb-11	02-May-11	12.80	\$5,474	2.00	\$0	\$5,474	\$0	13.60																		
15222060	Proc Pb Glass Insert	03-May-11	31-May-12	53.80	\$0	0.00	\$0	\$0	\$0	13.60																		
15222080	Fabricate FCAL Monitoring System (FWD CAL)	05-Jan-12	05-Apr-12	12.80	\$6,399	3.60	\$26,620	\$33,020	\$0	12.20																		
15222085	Installation FCAL Monitoring System (FWD CAL)	02-Oct-13	30-Dec-13	11.40	\$27,516	15.00	\$6,593	\$34,109	\$0	7.40																		
15222100	Stacking of Blocks (FWD CAL) FY12	23-Jul-12	28-Sep-12	9.80	\$15,148	17.04	\$0	\$15,148	\$0	6.60																		
15222100a	Stacking of Blocks (FWD CAL) FY13	01-Oct-12	29-Jul-13	40.80	\$65,081	70.96	\$0	\$65,081	\$0	6.60																		
15222105	Assy of Single Channel FCal Detector (FWD CAL)	03-Jan-13	05-Apr-13	13.00	\$40,357	66.00	\$0	\$40,357	\$0	7.40																		
15222110	Reverse Entry Per CR10-007	07-Dec-09	07-Dec-09	0.20	(\$23,261)	-11.56	(\$61,532)	(\$84,793)	\$0	40.40																		
<b>1.5.2.3 PARTICLE ID</b>		<b>02-Aug-10</b>	<b>27-Nov-13</b>	<b>165.60</b>	<b>\$87,072</b>	<b>44.00</b>	<b>\$604,260</b>	<b>\$695,280</b>	<b>\$3,948</b>	<b>3.60</b>																		
<b>1.5.2.3.1 TIME OF FLIGHT</b>		<b>02-Aug-10</b>	<b>27-Nov-13</b>	<b>165.60</b>	<b>\$87,072</b>	<b>44.00</b>	<b>\$604,260</b>	<b>\$695,280</b>	<b>\$3,948</b>	<b>3.60</b>																		
15231001	Prepare Procurements/Fabrication Packages 2011 (TOF)	01-Jun-11	30-Sep-11	17.20	\$38,195	20.00	\$0	\$38,195	\$0	66.60																		
15231001a	Prepare Procurements/Fabrication Packages 2012 (TOF)	03-Oct-11	10-Apr-12	25.40	\$39,414	20.00	\$0	\$39,414	\$0	66.60																		
15231002	Engineering Support for Testing 2012	29-May-12	28-Aug-12	13.00	\$9,463	4.00	\$0	\$9,463	\$0	63.00																		
15231011E	FY11 Travel (TOF)	01-Oct-10	30-Sep-11	49.60	\$0	0.00	\$0	\$1,607	\$1,607	34.60																		
15231012E	FY12 Travel (TOF)	03-Oct-11	28-Sep-12	49.40	\$0	0.00	\$0	\$1,658	\$1,658	34.60																		
15231013E	FY13 Travel (TOF)	01-Oct-12	29-Mar-13	24.00	\$0	0.00	\$0	\$683	\$683	34.60																		
15231015	FSU - Proc Supplies (TOF) Part A	02-Nov-11	01-Dec-11	4.00	\$0	0.00	\$11,700	\$11,700	\$0	99.60																		
15231019	Proc First Article PMTs (TOF)	02-Aug-10	30-Sep-10	8.60	\$0	0.00	\$12,000	\$12,000	\$0	157.60																		
15231020	Proc PMTs (TOF)	05-Apr-12	28-Sep-12	24.80	\$0	0.00	\$147,829	\$147,829	\$0	58.60																		
15231025	Proc Dividers (TOF)	05-Apr-12	28-Sep-12	24.80	\$0	0.00	\$31,385	\$31,385	\$0	58.60																		
15231030	Proc Magnetic Shields (TOF)	03-Jan-13	26-Apr-13	16.00	\$0	0.00	\$11,359	\$11,359	\$0	30.60																		
15231045	Proc Supprt Struct (TOF)	01-Feb-13	29-Mar-13	8.00	\$0	0.00	\$24,147	\$24,147	\$0	34.60																		
15231055	FSU - Scintillator Procurement Part A	31-Aug-12	31-Aug-12	0.20	\$0	0.00	\$285	\$285	\$0	62.40																		
15231060	FSU - Scintillator Procurement Part B	20-Jul-12	31-Aug-12	6.20	\$0	0.00	\$2,746	\$2,746	\$0	62.40																		
15231065	FSU - Scintillator Procurement Part C	27-Jul-12	31-Aug-12	5.20	\$0	0.00	\$3,052	\$3,052	\$0	62.40																		
15231070	FSU - Scintillator Procurement Part D	11-Jul-12	31-Aug-12	7.60	\$0	0.00	\$5,489	\$5,489	\$0	62.40																		
15231075	FSU - Scintillator Procurement Part E	04-Sep-12	31-Jul-13	45.00	\$0	0.00	\$75,649	\$75,649	\$0	3.60																		
15231080	FSU - Light Guide Material Procurement	04-Sep-12	31-Jul-13	45.00	\$0	0.00	\$17,856	\$17,856	\$0	3.60																		
15231090	FSU - Proc Supplies (TOF) Part B	04-Sep-12	31-Jul-13	45.00	\$0	0.00	\$9,785	\$9,785	\$0	3.60																		
15231093	FSU - Jig Construction	04-Sep-12	30-Nov-12	12.40	\$0	0.00	\$18,524	\$18,524	\$0	3.60																		
15231095	FSU - Polishing and Gluing of First 30 Units	04-Sep-12	31-May-13	36.60	\$0	0.00																						











Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	
1532075ba	Write DAQ Software Run Control FY13	01-Oct-12	20-Mar-13	22.60	\$9,580	3.29	\$0	\$9,580	\$0	32.80																		
1532075c	Write DAQ Software Code Management	15-Oct-12	15-Apr-13	24.20	\$9,326	3.20	\$0	\$9,326	\$0	29.20																		
1532077	Write DAQ Software Scripts FY13	04-Mar-13	28-Aug-13	25.20	\$11,658	4.00	\$0	\$11,658	\$0	10.20																		
1532080	Write Monitoring Framework FY12	01-Jun-12	30-Aug-12	12.80	\$9,038	6.20	\$0	\$9,038	\$0	55.80																		
1532080a	Write Monitoring Scalers	01-Oct-12	01-Apr-13	24.20	\$13,989	4.80	\$0	\$13,989	\$0	65.60																		
1532080b	Write Monitoring Histograms FY12	01-Jun-12	28-Sep-12	16.80	\$5,176	4.89	\$0	\$5,176	\$0	64.60																		
1532080ba	Write Monitoring Histograms FY13	01-Oct-12	22-Apr-13	27.20	\$8,648	7.91	\$0	\$8,648	\$0	64.60																		
1532080c	Write Monitoring Remote	04-Mar-13	28-Aug-13	25.20	\$9,326	11.20	\$0	\$9,326	\$0	26.60																		
1532080d	Write Monitoring Hardware Status FY12	01-Jun-12	28-Sep-12	16.80	\$3,451	1.22	\$0	\$3,451	\$0	64.60																		
1532080da	Write Monitoring Hardware Status FY13	01-Oct-12	22-Apr-13	27.20	\$5,765	1.98	\$0	\$5,765	\$0	64.60																		
1532080f	Write Monitoring Process Status	31-Jan-13	06-Aug-13	26.20	\$13,989	4.80	\$0	\$13,989	\$0	49.80																		
1532080g	Write Monitoring Trigger	31-Jan-13	20-Jun-14	69.40	\$11,658	4.00	\$0	\$11,658	\$0	10.60																		
1532082	Write Monitoring Framework FY13	29-Apr-13	24-Sep-13	20.80	\$9,326	6.20	\$0	\$9,326	\$0	31.00																		
1532085	Write Alarm Sys	31-Jan-13	13-Aug-13	27.20	\$18,652	17.40	\$0	\$18,652	\$0	9.80																		
1532090	Write Archiving DAQ Configuration	04-Mar-13	28-Jun-13	16.80	\$13,000	4.80	\$0	\$13,000	\$0	11.20																		
1532090a	Write Archiving Run Info	04-Mar-13	28-Aug-13	25.20	\$17,334	6.40	\$0	\$17,334	\$0	10.80																		
1532090b	Write Archiving Controls	04-Mar-13	28-Aug-13	25.20	\$13,000	4.80	\$0	\$13,000	\$0	10.80																		
1532095	Write Event Display FY12	28-Mar-12	28-Sep-12	26.00	\$0	26.00	\$0	\$0	\$0	18.00																		
1532095a	Write Event Display FY13	01-Oct-12	14-Feb-13	18.00	\$0	18.00	\$0	\$0	\$0	18.00																		
1532100	Write Storage Mngmnt	04-Mar-13	28-Aug-13	25.20	\$23,999	8.80	\$0	\$23,999	\$0	10.80																		
1532105	Write Experiment Control Framework FY12 (FY13 @ 1532105s)	02-Apr-12	28-Sep-12	25.40	\$10,435	3.69	\$0	\$10,435	\$0	17.40																		
1532105a	Write Experiment Control Display Management	15-Oct-12	15-Apr-13	24.20	\$23,315	8.00	\$0	\$23,315	\$0	9.80																		
1532105b	Write Experiment Control Display Backup/Restore	04-Mar-13	30-May-13	12.60	\$6,995	2.40	\$0	\$6,995	\$0	11.40																		
1532105c	Write Experiment Control Magnet PS	04-Mar-13	28-Aug-13	25.20	\$23,315	8.00	\$0	\$23,315	\$0	10.80																		
1532105d	Write Experiment Control HV FY12	01-Aug-12	28-Sep-12	8.40	\$11,165	6.78	\$0	\$11,165	\$0	20.60																		
1532105da	Write Experiment Control HV FY13	01-Oct-12	28-Jan-13	15.40	\$21,121	12.42	\$0	\$21,121	\$0	20.60																		
1532105f	Write Experiment Control LV FY12	01-Aug-12	28-Sep-12	8.40	\$9,570	3.39	\$0	\$9,570	\$0	20.60																		
1532105fa	Write Experiment Control LV FY13	01-Oct-12	28-Jan-13	15.40	\$18,104	6.21	\$0	\$18,104	\$0	20.60																		
1532105g	Write Experiment Control Motors FY12	02-Apr-12	28-Sep-12	25.40	\$13,044	6.93	\$0	\$13,044	\$0	17.40																		
1532105ga	Write Experiment Control Motors FY13	01-Oct-12	20-Feb-13	18.60	\$9,856	5.07	\$0	\$9,856	\$0	17.40																		
1532105h	Write Experiment Control Gas Systems	04-Mar-13	28-Aug-13	25.20	\$23,315	12.00	\$0	\$23,315	\$0	10.80																		
1532105j	Write Experiment Control Temperature	04-Mar-13	28-Aug-13	25.20	\$18,652	6.40	\$0	\$18,652	\$0	10.80																		
1532105k	Write Experiment Control Target	01-Feb-13	31-Jul-13	25.20	\$23,315	8.00	\$0	\$23,315	\$0	14.80																		
1532105n	Write Experiment Control Interface with DAQ FY12	02-Apr-12	28-Sep-12	25.40	\$5,217	1.85	\$0	\$5,217	\$0	17.40																		
1532105na	Write Experiment Control Interface with DAQ FY13	01-Oct-12	20-Feb-13	18.60	\$3,942	1.35	\$0	\$3,942	\$0	17.40																		
1532105s	Write Experiment Control Framework FY13 (FY12 @ 1532105)	01-Oct-12	20-Feb-13	18.60	\$7,885	2.71	\$0	\$7,885	\$0	17.40																		
1532110	** DO NOT MODIFY/START OPC CR** Check-out Front-End Software	01-Oct-13	21-Jan-14	14.40	\$9,156	3.14	\$0	\$9,156	\$0	16.00																		
1532115	Check-out DAQ Software	22-Oct-13	24-Apr-14	24.60	\$27,978	9.60	\$0	\$27,978	\$0	2.80																		
1532120	** DO NOT MODIFY/START OPC CR** Check-out Monitoring	01-Oct-13	28-Feb-14	19.80	\$36,015	12.36	\$0	\$36,015	\$0	10.60																		
1532125	** DO NOT MODIFY/START OPC CR** Check-out Alarm Sys	01-Oct-13	06-Mar-14	20.60	\$18,473	6.34	\$0	\$18,473	\$0	9.80																		
1532130	** DO NOT MODIFY/START OPC CR** Check-out Archiving Sys	01-Oct-13	27-Feb-14	19.60	\$12,463	4.28	\$0	\$12,463	\$0	10.80																		
1532135	** DO NOT MODIFY/START OPC CR** Check-out Event Displays	01-Oct-13	06-Jan-14	12.40	\$3,942	2.76	\$0	\$3,942	\$0	18.00																		
1532140	Check-out L3 Farm infrastructure	28-Oct-13	06-Mar-14	16.80	\$24,493	8.80	\$0	\$24,493	\$0	2.80																		
1532145	** DO NOT MODIFY/START OPC CR** Check-out Storage Mngmnt Software	01-Oct-13	27-Feb-14	19.60	\$10,911	3.92	\$0	\$10,911	\$0	10.80																		
1532150	** DO NOT MODIFY/START OPC CR** Check-out Experiment Control Software Frame...	01-Oct-13	20-Feb-14	18.60	\$3,942	1.35	\$0	\$3,942	\$0	11.80																		
1532155	** DO NOT MODIFY/START OPC CR** Check-out Experiment Control Software Display...	01-Oct-13	06-Mar-14	20.60	\$4,366	1.50	\$0	\$4,366	\$0	9.80																		
1532160	** DO NOT MODIFY/START OPC CR** Check-out Experiment Control Software Backup...	01-Oct-13	24-Feb-14	19.00	\$4,027	1.38	\$0	\$4,027	\$0	11.40																		
1532165	** DO NOT MODIFY/START OPC CR** Check-out Experiment Control Software Magnet...	01-Oct-13	27-Feb-14	19.60	\$4,154	1.43	\$0	\$4,154	\$0	10.80																		
1532170	** DO NOT MODIFY/START OPC CR** Check-out Experiment Control Software HV	01-Oct-13	10-Dec-13	9.80	\$2,077	0.71	\$0	\$2,077	\$0	20.60																		
1532175	** DO NOT MODIFY/START OPC CR** Check-out Experiment Control Software LV	01-Oct-13	10-Dec-13	9.80	\$1,558	0.53	\$0	\$1,558	\$0	20.60																		
1532180	** DO NOT MODIFY/START OPC CR** Check-out Experiment Control Software Motors	01-Oct-13	09-Jan-14	13.00	\$2,756	0.95	\$0	\$2,756	\$0	17.40																		
1532185	** DO NOT MODIFY/START OPC CR** Check-out Experiment Control Software Gas Sy...	01-Oct-13	27-Feb-14	19.60	\$3,115	1.07	\$0	\$3,115	\$0	10.80																		
1532190	** DO NOT MODIFY/START OPC CR** Check-out Experiment Control Software Temper...	01-Oct-13	27-Feb-14	19.60	\$4,154	1.43	\$0	\$4,154	\$0	10.80																		
1532195	** DO NOT MODIFY/START OPC CR** Check-out Experiment Control Software Target	01-Oct-13	29-Jan-14	15.60	\$3,306	1.13	\$0	\$3,306	\$0	14.80																		
1532200	** DO NOT MODIFY/START OPC CR** Check-out Experiment Control Software DAQ In...	01-Oct-13	09-Jan-14	13.00	\$1,378	0.47																						







Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	023
1544006	Vend Fab Crate DAQ Type Phase 2 (CRATES/RACKS) VXS	05-Jan-12	29-Jun-12	24.60	\$0	0.00	\$386,391	\$386,391	\$0	59.60																	
1544010	Vend Fab Crate DAQ Type Phase 2 (CRATES/RACKS) VME64X	03-Oct-11	13-Apr-12	26.00	\$0	0.00	\$13,914	\$13,914	\$0	70.20																	
1544015	Vend Fab Crate suppl (5 VXS and 2 VME64)	26-Apr-12	31-Dec-12	33.60	\$0	0.00	\$70,000	\$70,000	\$0	32.60																	
1544020	Assemble ADC Crates (CRATES/RACKS)	02-Jul-12	16-Jul-12	2.20	\$3,530	2.00	\$0	\$3,530	\$0	59.60																	
1544025	Test ADC Crates (CRATES/RACKS)	17-Jul-12	15-Aug-12	4.40	\$15,887	9.00	\$0	\$15,887	\$0	59.60																	
1544030	Proc TDC Auxiliaries (CRATES/RACKS)	02-Dec-11	02-Dec-11	0.20	\$0	0.00	\$0	\$0	\$0	89.80																	
1544035	Assemble TDC Crates (CRATES/RACKS)	05-Dec-11	19-Dec-11	2.20	\$3,530	2.00	\$0	\$3,530	\$0	89.80																	
1544040	Test TDC Crates (CRATES/RACKS)	20-Dec-11	11-Jan-12	2.20	\$7,061	4.00	\$0	\$7,061	\$0	89.80																	
1544050	Racks - First Article Procurement Support (CRATES/RACKS)	11-Jul-11	26-Aug-11	7.00	\$9,578	5.00	\$0	\$9,578	\$0	48.60																	
1544055	Racks - First Article Parts (QTY 2) (CRATES/RACKS)	25-Jul-11	19-Aug-11	4.00	\$0	0.00	\$2,400	\$2,400	\$0	48.60																	
1544060	Racks - Cabling Development (CRATES/RACKS) FY11	29-Aug-11	30-Sep-11	4.80	\$6,610	3.12	\$0	\$6,610	\$0	48.60																	
1544060a	Racks - Cabling Development (CRATES/RACKS) FY12	03-Oct-11	16-Dec-11	10.60	\$15,061	6.88	\$0	\$15,061	\$0	48.60																	
1544065	Racks - Production Procurement Support (CRATES/RACKS)	19-Dec-11	27-Jan-12	4.60	\$9,883	5.00	\$0	\$9,883	\$0	48.60																	
1544070	Racks - Production Parts (QTY 55) (CRATES/RACKS)	05-Mar-12	29-Jun-12	16.60	\$0	0.00	\$68,105	\$68,105	\$0	43.80																	
1544075	Racks - Production Acceptance (CRATES/RACKS)	12-Apr-12	20-Aug-12	18.20	\$7,061	4.00	\$0	\$7,061	\$0	43.80																	
<b>1.5.4.6 DETECTOR ELECTRONICS</b>																											
1546005	ASIC - Procurement Support (FDC&CDC)	04-Jan-11	31-Jul-13	128.40	\$373,521	178.67	\$445,984	\$819,505	\$0	38.80																	
1546010	ASIC - Test (FDC&CDC)	04-Jan-11	04-Mar-11	8.40	\$13,676	5.00	\$0	\$13,676	\$0	14.40																	
1546020	ASIC - Test Fixture Development (FDC&CDC)	31-May-11	02-Sep-11	13.60	\$22,916	11.00	\$0	\$22,916	\$0	14.40																	
1546025	ASIC - Test Fixture Procurement Support (FDC&CDC)	18-Jan-11	04-Mar-11	6.60	\$13,000	7.00	\$0	\$13,000	\$0	17.40																	
1546030	ASIC - Test Fixture Parts (FDC&CDC)	07-Mar-11	25-Mar-11	3.00	\$3,422	2.00	\$0	\$3,422	\$0	18.40																	
1546035	ASIC - Test Fixture Procurement Support (FDC&CDC)	07-Mar-11	18-Mar-11	2.00	\$0	0.00	\$10,000	\$10,000	\$0	17.40																	
1546040	ASIC - Test Fixture Assembly (FDC&CDC)	21-Mar-11	01-Apr-11	2.00	\$0	0.00	\$2,000	\$2,000	\$0	17.40																	
1546045	ASIC - Test Fixture Test (FDC&CDC)	04-Apr-11	15-Apr-11	2.00	\$3,422	2.00	\$0	\$3,422	\$0	17.40																	
1546050	Preamp Card - First Article Procurement Support (FDC&CDC)	18-Apr-11	06-May-11	3.00	\$6,157	3.00	\$0	\$6,157	\$0	17.40																	
1546055	Preamp Card - First Article Parts (FDC&CDC)	11-Apr-11	01-Jul-11	11.80	\$11,289	6.00	\$0	\$11,289	\$0	3.00																	
1546060	Preamp Card - First Article Procurement Support (FDC&CDC)	11-Apr-11	01-Jul-11	11.80	\$0	0.00	\$25,000	\$25,000	\$0	3.00																	
1546065	Preamp Card - First Article Assembly (FDC&CDC)	06-Jun-11	29-Jul-11	7.80	\$0	0.00	\$3,500	\$3,500	\$0	3.00																	
1546070	Preamp Card - First Article Acceptance QA (FDC&CDC) FY11	01-Aug-11	23-Sep-11	7.80	\$0	0.00	\$5,000	\$5,000	\$0	3.00																	
1546070a	Preamp Card - First Article Acceptance QA (FDC&CDC) FY12	26-Sep-11	30-Sep-11	1.00	\$2,121	1.00	\$0	\$2,121	\$0	3.00																	
1546075	Preamp Card - Production Procurement Support (FDC&CDC)	03-Oct-11	28-Oct-11	4.00	\$8,752	4.00	\$0	\$8,752	\$0	3.00																	
1546080	Preamp Card - Production Procurement Support (FDC&CDC)	31-Oct-11	20-Jan-12	10.20	\$3,530	2.00	\$0	\$3,530	\$0	3.00																	
1546085	Preamp Card - Production Assembly (FDC&CDC)	31-Oct-11	23-Nov-11	3.60	\$0	0.00	\$22,702	\$22,702	\$0	3.00																	
1546090	Preamp Card - Production Tests (FDC&CDC)	28-Nov-11	20-Jan-12	6.60	\$0	0.00	\$23,734	\$23,734	\$0	3.00																	
1546095	Preamp Card - Production Tests (FDC&CDC)	23-Jan-12	22-Jun-12	21.40	\$38,834	22.00	\$0	\$38,834	\$0	3.00																	
1546100	Preamp Card - Test Fixture Development (FDC&CDC)	21-Mar-11	13-May-11	8.00	\$13,000	7.00	\$0	\$13,000	\$0	10.80																	
1546105	Preamp Card - Test Fixture Procurement Support (FDC&CDC)	16-May-11	03-Jun-11	2.80	\$3,422	2.00	\$0	\$3,422	\$0	10.80																	
1546110	Preamp Card - Test Fixture Parts (FDC&CDC)	16-May-11	10-Jun-11	3.80	\$0	0.00	\$10,000	\$10,000	\$0	10.80																	
1546115	Preamp Card - Test Fixture Assembly (FDC&CDC)	13-Jun-11	01-Jul-11	3.00	\$0	0.00	\$2,000	\$2,000	\$0	10.80																	
1546120	Preamp Card - Test Fixture Test (FDC&CDC)	05-Jul-11	15-Jul-11	1.80	\$3,422	2.00	\$0	\$3,422	\$0	10.80																	
1546125	HVB - Development Revisions (CDC)	18-Jul-11	29-Jul-11	2.00	\$3,422	2.00	\$0	\$3,422	\$0	10.80																	
1546130	HVB - Development PCB Fab Files (CDC)	24-Jan-11	24-Mar-11	8.60	\$10,941	4.00	\$0	\$10,941	\$0	14.60																	
1546135	HVB - Development PCB Assembly Files (CDC)	14-Mar-11	18-Mar-11	1.00	\$2,735	1.00	\$0	\$2,735	\$0	14.60																	
1546140	HVB - First Article Procurement Support (CDC)	14-Mar-11	18-Mar-11	1.00	\$2,735	1.00	\$0	\$2,735	\$0	14.60																	
1546145	HVB - First Article Parts (CDC)	24-Jan-11	15-Apr-11	11.80	\$6,157	3.00	\$0	\$6,157	\$0	14.60																	
1546150	HVB - First Article Parts (CDC)	24-Jan-11	15-Jul-11	24.40	\$0	0.00	\$10,000	\$10,000	\$0	14.60																	
1546155	HVB - First Article Assembly 2 Units (CDC)	21-Mar-11	01-Apr-11	2.00	\$0	0.00	\$2,000	\$2,000	\$0	14.60																	
1546160	HVB - First Article Assembly 2 Units (CDC)	04-Apr-11	15-Apr-11	2.00	\$1,711	1.00	\$0	\$1,711	\$0	14.60																	
1546165	HVB - First Article Test 2 Units (CDC)	18-Apr-11	29-Apr-11	2.00	\$1,711	1.00	\$0	\$1,711	\$0	14.60																	
1546170	HVB - Production Procurement Support (CDC)	02-May-11	22-Jul-11	11.60	\$14,362	6.00	\$0	\$14,362	\$0	14.60																	
1546175	HVB - Production Procurement Support (CDC)	25-Jul-11	26-Aug-11	5.00	\$0	0.00	\$10,000	\$10,000	\$0	14.60																	
1546180	HVB - Production Assembly (CDC)	29-Aug-11	07-Oct-11	5.80	\$0	0.00	\$10,000	\$10,000	\$0	14.60																	
1546182	Testing/manufacturing equipment for electronic boards	10-Oct-11	27-Jan-12	14.20	\$16,944	9.00	\$0	\$16,944	\$0	14.60																	
1546185	HVB - Test Fixture Development (CDC)	05-Mar-12	28-Sep-12	29.40	\$0	0.00	\$5,000	\$5,000	\$0	80.00																	
1546190	HVB - Test Fixture Procurement Support (CDC)	27-May-11	17-Jun-11	3.00	\$4,446	2.00	\$0	\$4,446	\$0	19.40																	
1546195	HVB - Test Fixture Parts (CDC)	20-Jun-11	08-Jul-11	2.80	\$1,711	1.00	\$0	\$1,711	\$0	19.40																	





Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
1545026	Discriminator - Production Parts Non-Recurring Engineering	04-Jan-12	31-May-12	20.80	\$0	0.00	\$751	\$751	\$0	45.60																		
1545027	Discriminator - Production Parts Fab and Assembly (QTY 70)	04-Jan-12	31-Aug-12	33.80	\$0	0.00	\$103,126	\$103,126	\$0	45.60																		
1545028	Procure Discriminators (Qty.24) Supplemental BCAL and PS	20-Aug-12	31-Jan-13	21.80	\$0	0.00	\$48,000	\$48,000	\$0	37.40																		
1545030	Discriminator - Production Test (QTY 70) FY12	04-Sep-12	28-Sep-12	3.80	\$6,939	3.93	\$0	\$6,939	\$0	45.60																		
1545030a	Discriminator - Production Test (QTY 70) FY13	01-Oct-12	26-Nov-12	7.80	\$14,698	8.07	\$0	\$14,698	\$0	45.60																		
1545040	High Voltage - First Article Procurement Support	04-Jan-11	07-Feb-11	4.80	\$16,411	6.00	\$0	\$16,411	\$0	93.40																		
1545050	High Voltage - First Article Crates (QTY 1) and Modules (QTY 10)	05-Jan-11	07-Feb-11	4.60	\$0	0.00	\$76,620	\$76,620	\$0	93.20																		
1545050a	High Voltage - First Article Crates (QTY 1) and Modules (added cost)	01-Apr-11	11-May-11	5.60	\$0	0.00	\$2,454	\$2,454	\$0	93.90																		
1545051	High Voltage - First Article Crates Acceptance Tests (QTY 1)	22-Feb-11	18-Mar-11	3.80	\$4,446	2.00	\$0	\$4,446	\$0	93.20																		
1545055	High Voltage - First Article Modules Acceptance Tests (QTY 10)	14-Mar-11	08-Apr-11	4.00	\$7,868	4.00	\$0	\$7,868	\$0	93.20																		
1545060	High Voltage - Production Procurement Support	03-Oct-11	02-Mar-12	20.00	\$1,765	1.00	\$0	\$1,765	\$0	68.80																		
1545065	Vend Fab - Universal Multichannel Power Supply System 750W (QTY 6)	03-Oct-11	13-Apr-12	26.00	\$0	0.00	\$52,213	\$52,213	\$0	68.80																		
1545066	Vend Fab - Optional Power Supply 750W (QTY 6)	03-Oct-11	13-Apr-12	26.00	\$0	0.00	\$8,211	\$8,211	\$0	68.80																		
1545070	Vend Fab - H.V Channels -3.5 KV 3 MA SHV Floating (QTY 18)	03-Oct-11	13-Apr-12	26.00	\$0	0.00	\$124,270	\$124,270	\$0	68.80																		
1545071	Vend Fab - H.V Channels +3.5 KV 3 MA Floating (QTY 8)	03-Oct-11	13-Apr-12	26.00	\$0	0.00	\$55,982	\$55,982	\$0	68.80																		
1545075	Vend Fab - H.V Channels -3.5 KV 3 MA Floating (QTY 3)	03-Oct-11	13-Apr-12	26.00	\$0	0.00	\$21,677	\$21,677	\$0	68.80																		
1545080	High Voltage - Crates Production Tests (QTY 6)	22-Feb-12	05-Jun-12	14.60	\$3,530	2.00	\$0	\$3,530	\$0	68.80																		
1545085	High Voltage - Modules Production Tests (QTY 29)	22-Feb-12	05-Jun-12	14.60	\$14,122	8.00	\$0	\$14,122	\$0	68.80																		
1545090	Low Voltage - First Article Procurement Support	07-Mar-11	05-Aug-11	21.60	\$16,411	6.00	\$0	\$16,411	\$0	55.80																		
1545095	Low Voltage - First Article Crates (QTY 1)	07-Mar-11	05-Aug-11	21.60	\$0	0.00	\$6,300	\$6,300	\$0	55.80																		
1545097	Low Voltage - First Article Modules (QTY 8)	07-Mar-11	05-Aug-11	21.60	\$0	0.00	\$45,200	\$45,200	\$0	59.80																		
1545098	Low Voltage - First Article Crates Acceptance Tests (QTY 1)	08-Aug-11	02-Sep-11	4.00	\$4,446	2.00	\$0	\$4,446	\$0	55.80																		
1545100	Low Voltage - First Article Modules Acceptance Tests (QTY 10)	06-Sep-11	30-Sep-11	3.80	\$7,868	4.00	\$0	\$7,868	\$0	55.80																		
1545105	Low Voltage - Production Procurement Support	10-Oct-11	21-Dec-11	10.20	\$2,822	1.00	\$0	\$2,822	\$0	54.80																		
1545110	Low Voltage - Crates Production (QTY 7)	07-Nov-11	31-Oct-12	49.00	\$0	0.00	\$45,507	\$45,507	\$0	50.80																		
1545115	Low Voltage - Modules Production (QTY 38)	07-Nov-11	31-Oct-12	49.00	\$0	0.00	\$195,235	\$195,235	\$0	50.80																		
1545120	Low Voltage - Crates Production Tests (QTY 7) FY12	23-Apr-12	28-Sep-12	22.40	\$2,929	1.66	\$0	\$2,929	\$0	50.80																		
1545120a	Low Voltage - Crates Production Tests (QTY 7) FY13	01-Oct-12	31-Oct-12	4.60	\$621	0.34	\$0	\$621	\$0	50.80																		
1545125	Low Voltage - Modules Production Tests (QTY 38) FY12	23-Apr-12	28-Sep-12	22.40	\$11,716	6.64	\$0	\$11,716	\$0	50.80																		
1545125a	Low Voltage - Modules Production Tests (QTY 38) FY13	01-Oct-12	31-Oct-12	4.60	\$2,483	1.36	\$0	\$2,483	\$0	50.80																		
<b>1.5.4.7 DETECTOR CABLING</b>		<b>11-Jan-11</b>	<b>06-Aug-13</b>	<b>128.20</b>	<b>\$198,282</b>	<b>101.00</b>	<b>\$305,082</b>	<b>\$503,364</b>	<b>\$0</b>	<b>29.00</b>																		
1547005	Cables - Low Voltage Cabling Development (FDC&CDC)	11-Jan-11	25-Mar-11	10.40	\$8,892	4.00	\$0	\$8,892	\$0	66.40																		
1547010	Cables - Low Voltage Cabling Procurement Support (FDC&CDC)	28-Mar-11	26-Aug-11	21.60	\$16,411	6.00	\$0	\$16,411	\$0	66.40																		
1547015	Cables - Low Voltage Assemblies (FDC&CDC)	29-Aug-11	21-Dec-11	16.00	\$0	0.00	\$45,000	\$45,000	\$0	66.40																		
1547020	Cables - Low Voltage Distribution Development (FDC&CDC)	28-Mar-11	05-Aug-11	18.60	\$19,157	10.00	\$0	\$19,157	\$0	67.00																		
1547025	Cables - Low Voltage Distribution Chassis (FDC&CDC)	18-Apr-11	26-Aug-11	18.60	\$0	0.00	\$21,000	\$21,000	\$0	67.00																		
1547030	Cables - Low Voltage Distribution Supply Cables (FDC&CDC)	29-Aug-11	16-Dec-11	15.40	\$0	0.00	\$10,000	\$10,000	\$0	67.00																		
1547035	Cables - Coax Signal Procurement Support FY11	07-Jul-11	30-Sep-11	12.20	\$9,516	4.28	\$0	\$9,516	\$0	6.20																		
1547035a	Cables - Coax Signal Procurement Support FY12	03-Oct-11	16-Dec-11	10.60	\$8,532	3.72	\$0	\$8,532	\$0	6.20																		
1547040	Cables - Coax HV Procurement Support FY11	07-Jul-11	30-Sep-11	12.20	\$9,516	4.28	\$0	\$9,516	\$0	23.60																		
1547040a	Cables - Coax HV Procurement Support FY12	03-Oct-11	16-Dec-11	10.60	\$8,532	3.72	\$0	\$8,532	\$0	23.60																		
1547045	Cables - Coax Signal Acceptance Tests	10-Jan-12	21-Mar-12	10.00	\$10,591	6.00	\$0	\$10,591	\$0	6.20																		
1547050	Cables - Coax HV Acceptance Tests	10-Jan-12	21-Mar-12	10.00	\$10,591	6.00	\$0	\$10,591	\$0	23.60																		
1547055	Cables - Coax HV Tagger/Hodoscope	03-Jan-12	28-Sep-12	37.80	\$0	0.00	\$14,705	\$14,705	\$0	64.60																		
1547060	Cables - Coax Signal Tagger/Hodoscope	03-Jan-12	28-Sep-12	37.80	\$0	0.00	\$15,994	\$15,994	\$0	61.00																		
1547065	Cables - Coax HV Pair Spectrometer	03-Jan-12	28-Sep-12	37.80	\$0	0.00	\$3,870	\$3,870	\$0	65.40																		
1547070	Cables - Coax Signal Pair Spectrometer	03-Jan-12	28-Sep-12	37.80	\$0	0.00	\$2,580	\$2,580	\$0	56.40																		
1547075	Cables - Coax HV Start Counter	03-Jan-12	28-Sep-12	37.80	\$0	0.00	\$3,096	\$3,096	\$0	23.60																		
1547080	Cables - Coax Signal Start Counter	03-Jan-12	28-Sep-12	37.80	\$0	0.00	\$2,064	\$2,064	\$0	6.20																		
1547085	Cables - LV BCAL	03-Jan-12	28-Sep-12	37.80	\$0	0.00	\$3,715	\$3,715	\$0	43.00																		
1547090	Cables - Bias BCAL	03-Jan-12	28-Sep-12	37.80	\$0	0.00	\$5,572	\$5,572	\$0	44.60																		
1547095	Cables - Coax Signal BCAL	03-Jan-12	28-Sep-12	37.80	\$0	0.00	\$99,062	\$99,062	\$0	15.00																		
1547100	Cables - Coax HV TOF	03-Jan-12	28-Sep-12	37.80	\$0	0.00	\$13,002	\$13,002	\$0	64.80																		
1547105	Cables - Coax Signal TOF	03-Jan-12	28-Sep-12	37.80	\$0	0.00	\$8,668	\$8,668	\$0	64.60																		
1547110	Cables - Coax Signal FCAL	03-Jan-12	28-Sep-12	37.80	\$0	0.00	\$56,755	\$56,755	\$0	28.00																		
1547115	Cables - HV Label and Bundle Tagger/Hodoscope	03-Jan-13	29-Jan-13	3.60	\$3,643	2.00	\$0	\$3,643	\$0	52.60																		
1547120	Cables - Signal Label and Bundle Tagger/Hodoscope	03-Jan-13	29-Jan-13	3.60	\$3,643	2.00	\$0	\$3,643	\$0	49.00																		

— Primary Baseline   
 — Remaining Work   
 ◆ Baseline Milestone  
█ Actual Work   
 █ Critical Remaining Work   
 ◆ Milestone



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	Y2007	Y2008	Y2009	Y2010	Y2011	Y2012	Y2013	Y2014	Y2015	Y2016	Y2017	Y2018	Y2019	Y2020	Y2021	Y2022	Y2023
1547125	Cables - HV Label and Bundle Pair Spectrometer	03-Jan-13	16-Jan-13	2.00	\$1,822	1.00	\$0	\$1,822	\$0	57.00																	
1547130	Cables - Signal Label and Bundle Pair Spectrometer	08-Jan-13	22-Jan-13	2.00	\$1,822	1.00	\$0	\$1,822	\$0	56.40																	
1547135	Cables - HV Label and Bundle Start Counter	03-Jan-13	16-Jan-13	2.00	\$1,822	1.00	\$0	\$1,822	\$0	18.20																	
1547140	Cables - Signal Label and Bundle Start Counter	23-Jan-13	04-Feb-13	1.80	\$1,822	1.00	\$0	\$1,822	\$0	6.20																	
1547145	Cables - LV Label and Bundle CDC	05-Feb-13	19-Feb-13	2.00	\$1,822	1.00	\$0	\$1,822	\$0	11.80																	
1547150	Cables - HV Label and Bundle CDC	17-Jan-13	31-Jan-13	2.00	\$1,822	1.00	\$0	\$1,822	\$0	18.20																	
1547155	Cables - Signal Label and Bundle CDC	05-Feb-13	05-Mar-13	4.00	\$3,643	2.00	\$0	\$3,643	\$0	6.20																	
1547160	Cables - LV Label and Bundle FDC	20-Feb-13	02-Apr-13	6.00	\$5,465	3.00	\$0	\$5,465	\$0	11.80																	
1547165	Cables - HV Label and Bundle FDC	01-Feb-13	14-Feb-13	2.00	\$1,822	1.00	\$0	\$1,822	\$0	18.20																	
1547170	Cables - Signal Label and Bundle FDC	06-Mar-13	10-May-13	9.60	\$9,108	5.00	\$0	\$9,108	\$0	6.20																	
1547175	Cables - LV Label and Bundle BCAL	03-Apr-13	12-Apr-13	1.60	\$1,822	1.00	\$0	\$1,822	\$0	18.60																	
1547180	Cables - Bias Label and Bundle BCAL	15-Apr-13	26-Apr-13	2.00	\$1,822	1.00	\$0	\$1,822	\$0	18.60																	
1547185	Cables - Signal Label and Bundle BCAL	03-Jan-13	06-Aug-13	30.00	\$29,146	16.00	\$0	\$29,146	\$0	3.00																	
1547190	Cables - HV Label and Bundle TOF	15-Feb-13	14-Mar-13	3.80	\$3,643	2.00	\$0	\$3,643	\$0	46.80																	
1547195	Cables - Signal Label and Bundle TOF	30-Jan-13	27-Feb-13	4.00	\$3,643	2.00	\$0	\$3,643	\$0	49.00																	
1547200	Cables - Signal Label and Bundle FCAL	03-Jan-13	21-May-13	19.40	\$18,216	10.00	\$0	\$18,216	\$0	16.00																	
<b>1.5.4.8 FULL CRATE CHECKS</b>		06-Jun-12	13-Nov-13	72.40	\$37,725	19.00	\$0	\$37,725	\$0	3.40																	
1548010	Full Crate Check - Pre Installation,Lab,Install Mods,Test,Log&Label VME64x Discriminator	01-Mar-13	21-Mar-13	3.00	\$5,099	2.50	\$0	\$5,099	\$0	33.60																	
1548015	Full Crate Check - Pre Installation,Lab,Install Mods,Test,Log&Label VXS fADC250	01-Apr-13	19-Apr-13	3.00	\$10,564	5.50	\$0	\$10,564	\$0	20.40																	
1548020	Full Crate Check - Pre Installation,Lab,Install Mods,Test,Log&Label VXS fADC125	11-Oct-13	13-Nov-13	4.80	\$6,921	3.50	\$0	\$6,921	\$0	3.40																	
1548025	Full Crate Check - Pre Installation,Lab,Install Mods,Test,Log&Label VXS F1TDC	12-Sep-13	09-Oct-13	4.00	\$5,099	2.50	\$0	\$5,099	\$0	5.40																	
1548030	Full Crate Check - Pre Installation,Lab,Install Mods,Test,Log&Label High Voltage	06-Jun-12	03-Jul-12	4.00	\$4,942	2.50	\$0	\$4,942	\$0	68.80																	
1548035	Full Crate Check - Pre Installation,Lab,Install Mods,Test,Log&Label Low Voltage	01-Mar-13	28-Mar-13	4.00	\$5,099	2.50	\$0	\$5,099	\$0	35.60																	
<b>1.5.5 BEAMLINE</b>		01-Apr-09	24-Apr-14	251.40	\$1,342,273	907.53	\$2,882,554	\$4,247,503	\$22,676	4.80																	
<b>1.5.5.1 TAGGER</b>		01-Apr-09	31-Dec-13	235.60	\$616,400	535.40	\$1,933,005	\$2,568,392	\$18,988	18.60																	
<b>1.5.5.1.1 TAGGING MAGNET</b>		01-Apr-09	28-Feb-13	194.00	\$460,196	386.40	\$1,380,944	\$1,858,330	\$17,190	60.20																	
15511002	Prepare Procurements/Fabrication Packages 2010 ((TAGGING Mag)	01-Oct-09	29-Sep-10	49.40	\$39,992	18.00	\$0	\$39,992	\$0	48.40																	
15511003	Evaluate Procurements 2010 ((TAGGING Mag)	05-Jan-11	26-Aug-11	32.80	\$12,739	5.00	\$0	\$12,739	\$0	48.40																	
15511004	Engineering Support for Magnet Acceptance 2012 ((TAGGING Mag)	03-Oct-11	13-Dec-11	10.00	\$9,463	4.00	\$0	\$9,463	\$0	92.40																	
15511004a	Engineering Support for Component Procurements FY11 ((TAGGING Mag)	04-Jan-11	30-Sep-11	37.80	\$36,682	16.00	\$0	\$36,682	\$0	56.80																	
15511004b	Engineering Support for Component Procurements FY12 ((TAGGING Mag)	03-Oct-11	31-Aug-12	45.60	\$20,682	8.00	\$0	\$20,682	\$0	56.80																	
15511005	Drawings for Yoke Steel ((TAGGING Mag)	01-Apr-10	20-Sep-10	24.00	\$46,414	43.00	\$0	\$46,414	\$0	61.00																	
15511010	Drawings for Coils ((TAGGING Mag)	01-Apr-10	20-Aug-10	20.00	\$55,231	65.00	\$0	\$55,231	\$0	61.00																	
15511010E	FY10 Travel ((TAGGING Mag)	01-Oct-09	30-Sep-10	49.60	\$0	0.00	\$0	\$6,074	\$6,074	29.40																	
15511011E	FY11 Travel ((TAGGING Mag)	01-Oct-10	30-Sep-11	49.60	\$0	0.00	\$0	\$6,268	\$6,268	29.40																	
15511012E	FY12 Travel ((TAGGING Mag)	03-Oct-11	29-Jun-12	36.60	\$0	0.00	\$0	\$4,849	\$4,849	29.40																	
15511015	Drawings for Vac Chamb ((TAGGING Mag)	01-Apr-10	20-Sep-10	24.00	\$55,231	65.00	\$0	\$55,231	\$0	61.00																	
15511025	Dsgn Stnds for Mag ((TAGGING Mag)	01-Apr-10	24-Jun-10	12.00	\$46,414	37.00	\$0	\$46,414	\$0	73.00																	
15511030	Dsgn Supprt for Vac Chamb ((TAGGING Mag)	01-Apr-10	03-Sep-10	22.00	\$46,414	37.00	\$0	\$46,414	\$0	63.00																	
15511035	Dsgn Stnds for Quad ((TAGGING Mag)	03-Oct-11	20-Dec-11	11.00	\$49,424	37.00	\$0	\$49,424	\$0	96.80																	
15511040	Write Pwr Supply Spec ((TAGGING Mag)	23-Aug-10	27-Sep-10	5.00	\$8,290	11.00	\$0	\$8,290	\$0	113.20																	
15511045	EH&S Review of Dsgn before Constrcn ((TAGGING Mag)	21-Sep-10	27-Sep-10	1.00	\$0	0.00	\$0	\$0	\$0	61.00																	
15511050	Vend Fab Tagger Magnet Peg Point #1 Submit Foundry reports	15-Apr-11	31-Oct-11	27.80	\$0	0.00	\$442,540	\$442,540	\$0	34.40																	
15511050a	Vend Fab Tagger Magnet Peg Point #2 Winding tooling complete, conductor received	15-Apr-11	31-Oct-11	27.80	\$0	0.00	\$45,296	\$45,296	\$0	34.40																	
15511050b	Vend Fab Tagger Magnet Peg Point #3 Submit machining sequence and initial ultrasoni...	15-Apr-11	30-Dec-11	35.20	\$0	0.00	\$133,880	\$133,880	\$0	34.40																	
15511050c	Vend Fab Tagger Magnet Peg Point #4 Twelve coil assemblies wound	15-Apr-11	30-Dec-11	35.20	\$0	0.00	\$78,454	\$78,454	\$0	34.40																	
15511050d	Vend Fab Tagger Magnet Peg Point #5 Coil resin impregnation complete	15-Apr-11	30-Mar-12	47.60	\$0	0.00	\$102,401	\$102,401	\$0	34.40																	
15511050f	Vend Fab Tagger Magnet Peg Point #6 Submit hydrostatic pressure test, flow and press...	15-Apr-11	30-Apr-12	51.80	\$0	0.00	\$5,023	\$5,023	\$0	34.40																	
15511050g	Vend Fab Tagger Magnet Peg Point #7 Submit dimensional and electrical test data	15-Apr-11	31-May-12	56.20	\$0	0.00	\$3,893	\$3,893	\$0	34.40																	
15511050h	Vend Fab Tagger Magnet Peg Point #8 Submit coil dim. and electrical inspection tests if ...	15-Apr-11	29-Jun-12	60.20	\$0	0.00	\$0	\$0	\$0	34.40																	
15511050j	Vend Fab Tagger Magnet Peg Point #9 Submit dimension inspection report for core #1 a...	15-Apr-11	31-Aug-12	69.20	\$0	0.00	\$189,643	\$189,643	\$0	34.40																	
15511050k	Vend Fab Tagger Magnet Peg Point #10 Magnet assembly complete	15-Apr-11	28-Sep-12	73.00	\$0	0.00	\$89,560	\$89,560	\$0	34.40																	
15511050n	Vend Fab Tagger Magnet Peg Point #11 Magnet components arrive at JLab	15-Apr-11	30-Nov-12	81.60	\$0	0.00	\$13,504	\$13,504	\$0	34.40																	
15511060	Proc Vac Chamb ((TAGGING Mag)	05-Jan-12	28-Sep-12	37.40	\$2,320	3.00	\$77,956	\$80,276	\$0	43.00																	
15511065	Proc Pwr Supply ((TAGGING Mag)	05-Mar-12	28-Sep-12	29.40	\$0	0.00	\$41,276	\$41,276	\$0	43.00																	





Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023	
<b>1.5.5.3 BEAMLINE COMPONENTS</b>												24-Apr-14: 1.5.5.3 BEAMLINE COMPONENTS																
1553001	Engineering Support for Obtaining/Tstng Pair Spectrmt Mag (BL Compnts)	01-Oct-09	11-Jan-11	225.80	\$468,680	248.88	\$650,291	\$1,122,658	\$3,688	2.80																		
1553001a	Prepare Procurements Packages 2011 (BL Compnts)	05-Jan-11	30-Sep-11	37.60	\$25,810	12.00	\$0	\$25,810	\$0	72.00																		
1553002	Prepare Procurements Packages 2012 (BL Compnts)	01-Feb-12	10-Jul-12	22.40	\$39,950	18.00	\$0	\$39,950	\$0	56.40																		
1553005	Proc Radiator Diamond Crystals (BL Compnts)	31-Jul-13	31-Dec-13	20.40	\$0	0.00	\$73,514	\$73,514	\$0	2.80																		
1553010	Qualify Diamond Radiators (BL Compnts)	31-Oct-13	27-Mar-14	19.20	\$58,288	20.00	\$0	\$58,288	\$0	2.80																		
1553010E	FY10 Travel (BL Compnts)	01-Oct-09	30-Sep-10	49.60	\$0	0.00	\$0	\$879	\$879	20.40																		
1553011	Mounting & Test of Radiator (BL Compnts)	31-Dec-13	24-Apr-14	16.00	\$5,116	2.50	\$0	\$5,116	\$0	2.80																		
1553011E	FY11 Travel (BL Compnts)	01-Oct-10	30-Sep-11	49.60	\$0	0.00	\$0	\$907	\$907	20.40																		
1553012E	FY12 Travel (BL Compnts)	03-Oct-11	28-Sep-12	49.40	\$0	0.00	\$0	\$936	\$936	20.40																		
1553013E	FY13 Travel (BL Compnts)	01-Oct-12	30-Sep-13	49.60	\$0	0.00	\$0	\$966	\$966	20.40																		
1553015	Proc Goniometer (BL Compnts)	26-Nov-12	28-May-13	24.60	\$0	0.00	\$169,026	\$169,026	\$0	12.80																		
1553016	Build Vacuum Housing for Goniometer (BL Compnts)	29-May-13	31-Oct-13	22.00	\$0	0.00	\$24,147	\$24,147	\$0	12.80																		
1553017	Procure vacuum gauges and valves for tagger beamline	03-Jan-13	28-Mar-13	11.80	\$0	0.00	\$12,899	\$12,899	\$0	21.20																		
1553020	Write Control Software for Goniometer (BL Compnts)	29-May-13	23-Aug-13	12.40	\$26,230	9.00	\$0	\$26,230	\$0	22.40																		
1553025	Check Operation of Goniometer (BL Compnts)	01-Nov-13	12-Feb-14	13.00	\$32,058	11.00	\$0	\$32,058	\$0	12.80																		
1553030	Obtain Surplus Mag (BL Compnts)	01-Oct-10	11-Jan-11	13.00	\$10,949	4.00	\$0	\$10,949	\$0	153.40																		
1553031	Develop magnet gap modification	01-Aug-11	30-Sep-11	8.80	\$36,682	16.00	\$0	\$36,682	\$0	87.60																		
1553032	Fabricate magnet gap modification	03-Oct-11	03-Feb-12	16.20	\$0	0.00	\$12,383	\$12,383	\$0	87.60																		
1553033	Install magnet gap modification	04-May-12	06-Aug-12	13.00	\$21,757	11.00	\$0	\$21,757	\$0	75.00																		
1553034	Develop Pair Spec magnet support	05-Mar-12	03-May-12	8.80	\$10,885	4.68	\$0	\$10,885	\$0	71.20																		
1553034a	Procure Pair Spec magnet support	04-May-12	31-Aug-12	16.80	\$0	0.00	\$23,500	\$23,500	\$0	71.20																		
1553035	Proc Pair Spectrometer Mag Pwr Supply (BL Compnts)	03-Apr-12	31-Jan-13	41.20	\$0	0.00	\$48,298	\$48,298	\$0	51.40																		
1553036	Build Pair Spectrometer Vacuum Box Labor (BL Compnts) Labor	28-Feb-12	18-May-12	11.80	\$5,333	3.00	\$0	\$5,333	\$0	75.20																		
1553038	Build Pair Spectrometer Vacuum Box (BL Compnts)	09-Apr-12	02-Jul-12	11.80	\$0	0.00	\$26,500	\$26,500	\$0	75.20																		
1553040	Proc Pair Spectrometer Detctr's (BL Compnts) Part A	04-May-12	31-Dec-12	32.40	\$0	0.00	\$56,000	\$56,000	\$0	53.20																		
1553040a	Proc Pair Spectrometer Detctr's (BL Compnts) Part B	04-May-12	31-Dec-12	32.40	\$0	0.00	\$9,000	\$9,000	\$0	53.20																		
1553045	Manufacture, Mount and Test Pair Spectrometer Detctr's (BL Compnts)	07-Dec-12	29-Mar-13	14.60	\$45,054	21.00	\$0	\$45,054	\$0	53.20																		
1553048	Proc Pair convertor (BL Compnts) Labor Original	05-Jan-12	31-Jan-12	3.60	\$2,378	1.11	\$0	\$2,378	\$0	53.20																		
1553048a	Proc Pair convertor (BL Compnts) Labor Revised 2012 ETC	03-Feb-12	28-Sep-12	33.40	\$14,793	6.89	\$0	\$14,793	\$0	53.20																		
1553050	Proc Pair convertor (BL Compnts)	08-Apr-13	28-Jun-13	11.80	\$0	0.00	\$17,026	\$17,026	\$0	3.20																		
1553055	Assemble and Test Pair convertor (BL Compnts)	12-Jul-13	10-Oct-13	12.80	\$50,224	20.00	\$0	\$50,224	\$0	3.20																		
1553060	Proc Roughing Pump (BL Compnts)	08-Feb-13	13-Aug-13	26.00	\$0	0.00	\$6,037	\$6,037	\$0	37.00																		
1553065	Proc Active Collimator Compnts (BL Compnts)	05-Jan-12	10-Jul-12	26.00	\$0	0.00	\$11,700	\$11,700	\$0	52.40																		
1553070	Assemble Active Collimator (BL Compnts) FY12	11-Jul-12	28-Sep-12	11.40	\$2,994	7.02	\$0	\$2,994	\$0	52.40																		
1553070a	Assemble Active Collimator (BL Compnts) FY13	01-Oct-12	22-Jan-13	14.60	\$3,957	8.98	\$0	\$3,957	\$0	52.40																		
1553072	Program & test Collimator Table (BL Components) FY12	11-Jul-12	28-Sep-12	11.40	\$7,202	6.06	\$0	\$7,202	\$0	56.40																		
1553072a	Program & test Collimator Table (BL Components) FY13	01-Oct-12	14-Dec-12	10.60	\$6,911	5.64	\$0	\$6,911	\$0	56.40																		
1553075	Test Active Collimator (BL Compnts)	23-Jan-13	24-Apr-13	13.00	\$7,046	32.00	\$0	\$7,046	\$0	52.40																		
1553080	Proc Passive Collimator Sys (BL Compnts)	05-Jan-12	10-Jul-12	26.00	\$0	0.00	\$70,200	\$70,200	\$0	56.40																		
1553085	Design Primary Collimator Support (BL Compnts)	05-Jan-12	23-Mar-12	11.00	\$21,195	11.00	\$0	\$21,195	\$0	59.40																		
1553090	Fabricate Collimator Support (BL Compnts)	26-Mar-12	18-May-12	8.00	\$0	0.00	\$17,550	\$17,550	\$0	59.40																		
1553095	Purchase Lead for Cave Exit Wall (BL Compnts)	07-May-12	03-Aug-12	12.60	\$0	0.00	\$58,500	\$58,500	\$0	75.20																		
1553100	Prepare Environment for Sweep Magnets (BL Compnts)	18-Mar-11	26-May-11	10.00	\$17,228	10.00	\$0	\$17,228	\$0	124.20																		
1553105	Purchase Slow Control Crate (BL Compnts)	06-Jun-12	05-Sep-12	13.00	\$0	0.00	\$14,011	\$14,011	\$0	58.00																		
<b>1.5.6 INFRASTRUCTURE</b>												30-Apr-14: 1.5.6 INFRASTRUCTURE																
<b>1.5.6.1 ASSEMBLY</b>												20-Dec-13: 1.5.6.1 ASSEMBLY																
1561040M	Delivery Complete for CDC (Assy)	05-Apr-13		0.00	\$0	0.00	\$0	\$0	\$0	14.40																		
1561050M	Complete FDC (Assy)	22-Mar-13		0.00	\$0	0.00	\$0	\$0	\$0	5.40																		
1561060M	Delivery Complete for TOF (Assy)	07-Nov-13		0.00	\$0	0.00	\$0	\$0	\$0	3.60																		
1561065	Receive Modules 1-4 (Assy)	11-Feb-10	18-Feb-10	1.00	\$1,464	0.80	\$2,417	\$6,079	\$2,198	143.00																		
1561070	Receive Modules 5-8 (Assy)	28-Apr-10	04-May-10	1.00	\$1,464	0.80	\$2,417	\$6,079	\$2,198	132.40																		
1561075	Receive Modules 9-12 (Assy)	13-Jul-10	19-Jul-10	1.00	\$1,464	0.80	\$2,417	\$6,079	\$2,198	122.00																		
1561080	Receive Modules 13-16 (Assy) FY10	27-Sep-10	30-Sep-10	0.80	\$1,171	0.64	\$0	\$2,929	\$1,758	111.40																		
1561080a	Receive Modules 13-16 (Assy) FY11	01-Oct-10	01-Oct-10	0.20	\$302	0.16	\$0	\$756	\$454	111.40																		
1561080b	Receive Modules 13-16 (Assy) Procurement	27-Sep-10	01-Oct-10	1.00	\$0	0.00	\$2,417	\$2,417	\$0	111.40																		
1561085	Receive Modules 17-20 (Assy)	30-Dec-10	06-Jan-11	1.00	\$1,511	0.80	\$2,494	\$6,273	\$2,2																			













Activity ID, Activity Name, Start, Finish, Original Duration, Budgeted Labor Cost, Budgeted Labor Units, Budgeted Material Cost, Budgeted Total Cost, Budgeted Nonlabor Cost, Total Float, FY2007-FY2022 Gantt chart with activity bars and milestones.

Legend for activity types: Primary Baseline (green bar), Remaining Work (blue bar), Actual Work (red bar), Critical Remaining Work (yellow bar), Baseline Milestone (green diamond), Milestone (red diamond).





Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023
16222020	CHL Utility Upgrades A/E Supprt	10-Jun-10	27-May-11	48.00	\$0	0.00	\$28,000	\$28,000	\$0	4.60																	
16222025	CHL Utility Upgrades Cmmssng	04-Apr-11	29-Apr-11	4.00	\$0	0.00	\$16,384	\$16,384	\$0	4.60																	
16222030	CHL Utility Upgrades Beneficial Occupancy	02-May-11	27-May-11	4.00	\$5,436	2.00	\$0	\$5,436	\$0	4.60																	
16222032	Elect Distribn 40 MVA Switchgear Modification Labor Original	01-Feb-10	28-May-10	16.80	\$15,178	7.41	\$0	\$15,178	\$0	54.00																	
16222035M	CHL Utility Upgrades Complete		27-May-11	0.00	\$0	0.00	\$0	\$0	\$0	4.60																	
<b>1.6.2.2.3 COOLING WATER</b>		<b>01-Oct-09</b>	<b>03-Feb-10</b>	<b>16.20</b>	<b>\$7,902</b>	<b>3.00</b>	<b>\$0</b>	<b>\$7,902</b>	<b>\$0</b>	<b>70.20</b>																	
16223000M	Cooling Water Tower Begin Constr	01-Oct-09		0.00	\$0	0.00	\$0	\$0	\$0	70.40																	
16223005	Cooling Water Tower Award Contract	15-Oct-09	02-Feb-10	14.00	\$2,634	1.00	\$0	\$2,634	\$0	70.40																	
16223007	Cooling Water Tower Original Labor	01-Oct-09	02-Feb-10	16.00	\$5,268	2.00	\$141,854	\$147,122	\$0	70.40																	
16223008	Reverse Entry per CR10-021 P6 5% Spread Fix	03-Feb-10	03-Feb-10	0.20	\$0	0.00	(\$141,854)	(\$141,854)	\$0	33.40																	
<b>1.6.3 HALL D</b>		<b>02-Feb-09</b>	<b>31-Jan-12</b>	<b>148.60</b>	<b>\$405,117</b>	<b>202.00</b>	<b>\$19,354,219</b>	<b>\$19,759,336</b>	<b>\$0</b>	<b>156.60</b>																	
<b>1.6.3.3 CONSTRUCTION</b>		<b>02-Feb-09</b>	<b>31-Jan-12</b>	<b>148.60</b>	<b>\$405,117</b>	<b>202.00</b>	<b>\$19,354,219</b>	<b>\$19,759,336</b>	<b>\$0</b>	<b>156.60</b>																	
<b>1.6.3.3.1 PHASE 1</b>		<b>02-Feb-09</b>	<b>24-Nov-10</b>	<b>91.20</b>	<b>\$79,045</b>	<b>42.00</b>	<b>\$9,444,258</b>	<b>\$9,523,303</b>	<b>\$0</b>	<b>202.00</b>																	
16331000M	H-D Complex P- I Begin Constr	02-Feb-09		0.00	\$0	0.00	\$0	\$0	\$0	12.40																	
16331005	H-D Complex P- I Award Contract (BONDS)	02-Feb-09	02-Feb-09	0.20	\$0	0.00	\$125,000	\$125,000	\$0	12.40																	
16331010	H-D Complex P- I Constrctn Contract Progress August 09	03-Feb-09	31-Aug-09	29.40	\$0	0.00	\$987,759	\$987,759	\$0	50.60																	
16331010A	H-D Complex P- I Constrctn Contract Progress September 09	03-Feb-09	30-Sep-09	33.60	\$0	0.00	\$216,955	\$216,955	\$0	46.40																	
16331010B	H-D Complex P- I Constrctn Contract Progress October 09	03-Feb-09	30-Oct-09	38.00	\$0	0.00	\$300,400	\$300,400	\$0	42.00																	
16331010C	H-D Complex P- I Constrctn Contract Progress November 09	03-Feb-09	30-Nov-09	41.80	\$0	0.00	\$508,966	\$508,966	\$0	38.20																	
16331010D	H-D Complex P- I Constrctn Contract Progress December 09	03-Feb-09	30-Dec-09	45.20	\$0	0.00	\$799,325	\$799,325	\$0	34.80																	
16331010F	H-D Complex P- I Constrctn Contract Progress January 10	03-Feb-09	29-Jan-10	49.20	\$0	0.00	\$633,143	\$633,143	\$0	30.80																	
16331010G	H-D Complex P- I Constrctn Contract Progress February 10	03-Feb-09	26-Feb-10	53.00	\$0	0.00	\$229,811	\$229,811	\$0	27.00																	
16331010H	H-D Complex P- I Constrctn Contract Progress March 10	03-Feb-09	31-Mar-10	57.60	\$0	0.00	\$393,348	\$393,348	\$0	22.40																	
16331010J	H-D Complex P- I Constrctn Contract Progress April 10	03-Feb-09	30-Apr-10	62.00	\$0	0.00	\$567,231	\$567,231	\$0	18.00																	
16331010K	H-D Complex P- I Constrctn Contract Progress May 10	03-Feb-09	28-May-10	66.00	\$0	0.00	\$394,533	\$394,533	\$0	14.00																	
16331010L	H-D Complex P- I Constrctn Contract Progress June 10	03-Feb-09	30-Jun-10	70.40	\$0	0.00	\$595,761	\$595,761	\$0	9.60																	
16331010N	H-D Complex P- I Constrctn Contract Progress July 10 Original	03-Feb-09	30-Jul-10	70.40	\$0	0.00	\$30,024	\$30,024	\$0	3.80																	
16331010N5	H-D Complex P- I Constrctn Contract Progress July 10 Revised Delivery per CR10-061	03-Feb-09	27-Jul-10	74.00	\$0	0.00	\$277,720	\$277,720	\$0	0.20																	
16331010P	H-D Complex P- I Constrctn Contract Progress August 10	03-Feb-09	31-Aug-10	79.00	\$0	0.00	\$277,720	\$277,720	\$0	0.20																	
16331010Q	H-D Complex P- I Constrctn Contract Progress September 10	03-Feb-09	30-Sep-10	83.20	\$0	0.00	\$277,720	\$277,720	\$0	0.20																	
16331010R	H-D Complex P- I Constrctn Contract Progress October 10	03-Feb-09	29-Oct-10	87.40	\$0	0.00	\$277,720	\$277,720	\$0	0.20																	
16331010S	H-D Complex P- I Constrctn Contract Progress November 10	03-Feb-09	24-Nov-10	91.00	\$0	0.00	\$277,720	\$277,720	\$0	0.20																	
16331011	H-D Complex P- I Constrctn Contract Modifications	03-Feb-09	27-Jul-10	74.00	\$0	0.00	\$354,138	\$354,138	\$0	18.00																	
16331012	H-D Complex P- I ARRA Funds	06-Aug-09	27-Jul-10	48.20	\$0	0.00	\$37,491	\$37,491	\$0	219.00																	
16331013	H-D Complex P- I Floor Slab Contract Modification	01-Apr-10	30-Apr-10	4.40	\$0	0.00	\$400,000	\$400,000	\$0	18.00																	
16331014	H-D Complex P- I Settlement Agreement and Release	01-Jul-10	30-Jul-10	4.20	\$0	0.00	\$885,000	\$885,000	\$0	5.40																	
16331015	H-D Complex P- I Cmmssng Original	03-May-10	28-Jun-10	8.00	\$0	0.00	\$23,075	\$23,075	\$0	18.00																	
16331016	H-D Complex P- I Cmmssng Revised Date per CR10-061	01-Sep-10	27-Oct-10	8.00	\$0	0.00	\$23,075	\$23,075	\$0	1.00																	
16331017	Reverse Entry Per CR10-061	01-Jul-10	01-Jul-10	0.20	(\$264)	-0.10	(\$53,098)	(\$53,362)	\$0	12.60																	
16331020	H-D Complex P- I Constrctn Mngmnt Labor FY09	03-Feb-09	30-Sep-09	33.60	\$40,766	22.22	\$0	\$40,766	\$0	231.00																	
16331020b	H-D Complex P- I Constrctn Mngmnt Labor FY10	01-Oct-09	30-Apr-10	28.40	\$35,556	18.78	\$0	\$35,556	\$0	231.00																	
16331020c	H-D Complex P- I Constrctn Mngmnt Procurement	03-Feb-09	30-Apr-10	62.00	\$0	0.00	\$502,815	\$502,815	\$0	231.00																	
16331025	H-D Complex P- I A-E Constrctn Supprt	03-Feb-09	30-Apr-10	62.00	\$0	0.00	\$100,907	\$100,907	\$0	231.00																	
16331030	H-D Complex P- I Beneficial Occupancy Original	29-Jun-10	30-Jun-10	0.40	\$264	0.10	\$0	\$264	\$0	20.80																	
16331032	H-D Complex P- I Beneficial Occupancy Revised Date per CR10-061	28-Oct-10	24-Nov-10	4.00	\$2,723	1.00	\$0	\$2,723	\$0	0.20																	
16331035M	H-D Complex P- I Constr Comp		24-Nov-10	0.00	\$0	0.00	\$0	\$0	\$0	202.00																	
<b>1.6.3.3.2 PHASE 2</b>		<b>06-Aug-09</b>	<b>31-Jan-12</b>	<b>122.60</b>	<b>\$243,834</b>	<b>119.00</b>	<b>\$8,373,264</b>	<b>\$8,617,097</b>	<b>\$0</b>	<b>156.60</b>																	
16332000M	H-D Complex P- II Begin Constr	05-Jan-10		0.00	\$0	0.00	\$0	\$0	\$0	17.40																	
16332005	H-D Complex P- II Award Contract	06-Aug-09	06-Aug-09	0.20	\$0	0.00	\$0	\$0	\$0	1.20																	
16332008	H-D Complex P- II Notice to Proceed	05-Jan-10	02-Feb-10	4.00	\$0	0.00	\$0	\$0	\$0	17.40																	
16332010	H-D Complex P- II Contract Progress June 2010 Progress Payment	06-Aug-09	30-Jun-10	44.60	\$0	0.00	\$301,353	\$301,353	\$0	1.20																	
16332010A	H-D Complex P- II Contract Progress 2010 ETC FY10	01-Mar-10	30-Sep-10	30.20	\$18,846	10.67	\$0	\$18,846	\$0	19.40																	
16332010Ab	H-D Complex P- II Contract Progress 2010 ETC FY11	01-Oct-10	18-Apr-11	26.40	\$16,999	9.33	\$0	\$16,999	\$0	19.40																	
16332010B	H-D Complex P- II Contract Progress July 2010 Progress Payment	06-Aug-09	30-Jul-10	48.80	\$0	0.00	\$267,310	\$267,310	\$0	1.20																	



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023			
16332010G	H-D Complex P- II Contract Progress November 2010 Progress Payment	06-Aug-09	30-Nov-10	65.60	\$0	0.00	\$291,875	\$291,875	\$0	1.20																				
16332010H	H-D Complex P- II Contract Progress December 2010 Progress Payment	06-Aug-09	30-Dec-10	69.00	\$0	0.00	\$289,502	\$289,502	\$0	1.20																				
16332010J	H-D Complex P- II Contract Progress January 2011 Progress Payment	06-Aug-09	31-Jan-11	73.00	\$0	0.00	\$127,700	\$127,700	\$0	1.20																				
16332010K	H-D Complex P- II Contract Progress February 2011 Progress Payment	06-Aug-09	28-Feb-11	76.80	\$0	0.00	\$192,348	\$192,348	\$0	1.20																				
16332010N	H-D Complex P- II Contract Progress March 2011 Progress Payment	06-Aug-09	31-Mar-11	81.40	\$0	0.00	\$195,771	\$195,771	\$0	1.20																				
16332010P	H-D Complex P- II Contract Progress April 2011 Progress Payment	06-Aug-09	29-Apr-11	85.60	\$0	0.00	\$206,551	\$206,551	\$0	1.20																				
16332010Q	H-D Complex P- II Contract Progress May 2011 Progress Payment	06-Aug-09	31-May-11	89.80	\$0	0.00	\$800,206	\$800,206	\$0	1.20																				
16332010R	H-D Complex P- II Contract Progress June 2011 Progress Payment	06-Aug-09	30-Jun-11	94.20	\$0	0.00	\$199,024	\$199,024	\$0	1.20																				
16332010S	H-D Complex P- II Contract Progress July 2011 Progress Payment	06-Aug-09	29-Jul-11	98.20	\$0	0.00	\$734,054	\$734,054	\$0	1.20																				
16332010T	H-D Complex P- II Contract Progress August 2011 Progress Payment	06-Aug-09	31-Aug-11	102.80	\$0	0.00	\$734,054	\$734,054	\$0	1.20																				
16332010U	H-D Complex P- II Contract Progress September 2011 Progress Payment	06-Aug-09	30-Sep-11	107.00	\$0	0.00	\$734,054	\$734,054	\$0	1.20																				
16332010V	H-D Complex P- II Contract Progress October 2011 Progress Payment	06-Aug-09	31-Oct-11	111.20	\$0	0.00	\$734,055	\$734,055	\$0	1.20																				
16332010W	H-D Complex P-II Contractor Claim #2	04-Jan-12	31-Jan-12	3.80	\$0	0.00	\$300,000	\$300,000	\$0	156.60																				
16332011	H-D Complex & Cryo Plant P- II Contract Modifications	03-Feb-10	18-Apr-11	60.00	\$0	0.00	\$310,716	\$310,716	\$0	19.40																				
16332012	H-D Complex P- II ARRA Funds	03-Feb-10	18-Apr-11	60.00	\$0	0.00	\$64,312	\$64,312	\$0	19.40																				
16332015	H-D Complex P- II Cmmssng	05-Aug-11	30-Sep-11	8.00	\$0	0.00	\$96,376	\$96,376	\$0	4.20																				
16332020	H-D Complex P- II Constrcn Mngmnt Labor FY10	03-Feb-10	30-Sep-10	33.60	\$50,925	25.64	\$0	\$50,925	\$0	167.40																				
16332020A	H-D Complex P- II Constrcn Mngmnt 2010 ETC Labor FY11	01-Mar-10	30-Sep-10	30.20	\$31,443	14.98	\$0	\$31,443	\$0	167.40																				
16332020Aa	H-D Complex P- II Constrcn Mngmnt 2010 ETC Labor FY11	01-Oct-10	10-Aug-11	42.40	\$45,552	21.02	\$0	\$45,552	\$0	167.40																				
16332020Ab	H-D Complex P- II Constrcn Mngmnt 2010 ETC Procurement	01-Mar-10	10-Aug-11	72.60	\$0	0.00	\$206,000	\$206,000	\$0	167.40																				
16332020b	H-D Complex P- II Constrcn Mngmnt Labor FY11	01-Oct-10	10-Aug-11	42.40	\$66,309	32.36	\$0	\$66,309	\$0	167.40																				
16332020ba	H-D Complex P- II Constrcn Mngmnt Procurement	03-Feb-10	10-Aug-11	76.00	\$0	0.00	\$718,035	\$718,035	\$0	167.40																				
16332025	H-D Complex P- II A-E Constrcn Supprt	03-Feb-10	10-Aug-11	76.00	\$0	0.00	\$163,226	\$163,226	\$0	136.40																				
16332030	H-D Complex P- II Beneficial Occupancy	01-Nov-11	30-Nov-11	4.00	\$2,810	1.00	\$0	\$2,810	\$0	1.20																				
16332035	H-D Complex P- II Constr Comp	30-Nov-11	30-Nov-11	0.00	\$0	0.00	\$0	\$0	\$0	152.00																				
16332040	H-D Complex Cryo Plant P- II Contract Progress September 2010 Progress Payment	03-Feb-10	30-Sep-10	33.60	\$0	0.00	\$14,625	\$14,625	\$0	17.40																				
16332040A	H-D Complex Cryo Plant P- II Contract Progress October 2010 Progress Payment	03-Feb-10	29-Oct-10	37.80	\$0	0.00	\$20,740	\$20,740	\$0	17.40																				
16332040B	H-D Complex Cryo Plant P- II Contract Progress November 2010 Progress Payment	03-Feb-10	30-Nov-10	41.80	\$0	0.00	\$39,564	\$39,564	\$0	17.40																				
16332040C	H-D Complex Cryo Plant P- II Contract Progress December 2010 Progress Payment	03-Feb-10	30-Dec-10	45.20	\$0	0.00	\$9,096	\$9,096	\$0	17.40																				
16332040D	H-D Complex Cryo Plant P- II Contract Progress January 2011 Progress Payment	03-Feb-10	31-Jan-11	49.20	\$0	0.00	\$90,834	\$90,834	\$0	17.40																				
16332040F	H-D Complex Cryo Plant P- II Contract Progress February 2011 Progress Payment	03-Feb-10	28-Feb-11	53.00	\$0	0.00	\$40,288	\$40,288	\$0	17.40																				
16332045	H-D Elect Utilities Proc Telecomm Cable & Equip	16-Mar-11	04-Aug-11	20.00	\$10,949	4.00	\$0	\$10,949	\$0	5.40																				
16332050	H-D Elect Utilities Install Telecomm Cable & Equip	05-Aug-11	30-Sep-11	8.00	\$0	0.00	\$102,045	\$102,045	\$0	5.40																				
<b>1.6.3.3.3 PHASE 3</b>																														
16333000M	H-D Complex P- III Begin Constr	05-Jan-11		0.00	\$0	0.00	\$0	\$0	\$0	46.40																				
16333005	H-D Complex P- III Award Contract	06-Aug-09	06-Aug-09	0.20	\$0	0.00	\$0	\$0	\$0	36.80																				
16333008	H-D Complex P- III Notice to Proceed	05-Jan-11	05-Jan-11	0.20	\$0	0.00	\$0	\$0	\$0	46.40																				
16333010	H-D Complex P- III Contract Progress June 2011	06-Aug-09	30-Jun-11	94.20	\$0	0.00	\$123,073	\$123,073	\$0	36.80																				
16333010A	H-D Complex P- III Contract Progress July 2011	06-Aug-09	29-Jul-11	98.20	\$0	0.00	\$115,282	\$115,282	\$0	36.80																				
16333010B	H-D Complex P- III Contract Progress August 2011	06-Aug-09	31-Aug-11	102.80	\$0	0.00	\$115,735	\$115,735	\$0	36.80																				
16333010C	H-D Complex P- III Contract Progress September 2011	06-Aug-09	30-Sep-11	107.00	\$0	0.00	\$160,000	\$160,000	\$0	36.80																				
16333010D	H-D Complex P- III Contract Progress October 2011	06-Aug-09	31-Oct-11	111.20	\$0	0.00	\$155,302	\$155,302	\$0	36.80																				
16333010F	H-D Complex P-III Contractor Claim #2	01-Dec-11	07-Dec-11	1.00	\$0	0.00	\$355,000	\$355,000	\$0	163.00																				
16333011	H-D Complex P- III Contract Modifications	18-Mar-11	20-Sep-11	26.00	\$0	0.00	\$31,432	\$31,432	\$0	36.60																				
16333012	H-D Complex P- III ARRA Funds	18-Mar-11	20-Sep-11	26.00	\$0	0.00	\$27,562	\$27,562	\$0	36.60																				
16333015	H-D Complex P- III Cmmssng	21-Sep-11	18-Oct-11	4.00	\$0	0.00	\$5,851	\$5,851	\$0	36.60																				
16333020	H-D Complex P- III Constrcn Mngmnt	18-Mar-11	20-Sep-11	26.00	\$79,429	40.00	\$432,940	\$512,369	\$0	161.80																				
16333025	H-D Complex P- III A-E Constrcn Supprt	18-Mar-11	20-Sep-11	26.00	\$0	0.00	\$14,520	\$14,520	\$0	161.80																				
16333030	H-D Complex P- III Beneficial Occupancy	19-Oct-11	01-Nov-11	2.00	\$2,810	1.00	\$0	\$2,810	\$0	36.60																				
16333035	H-D Complex P- III Constr Comp	01-Nov-11	01-Nov-11	0.00	\$0	0.00	\$0	\$0	\$0	155.80																				
<b>1.7 PROJECT MANAGEMENT</b>																														
<b>1.7.1 PROJECT OFFICE</b>																														
171909LOE	FY09 Constrcn Proj Office Proj Mngmnt	02-Jan-09	30-Sep-09	37.80	\$969,067	298.74	\$0	\$1,061,187	\$92,121	0.00																				
171910ALOE	FY10 Constrcn Proj Office Proj Mngmnt (Accelerator Work Coordinator)	01-Mar-10	30-Sep-10	30.20	\$86,922	33.00	\$0																							

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
171911LOEA	FY11 Constrcn Proj Office Proj Mngmnt CR11-007 Reductions	01-Nov-10	30-Sep-11	45.40	(\$168,524)	-61.60	\$0	(\$360,226)	(\$191,703)	0.00																			
171911LOEB	FY11 Constrcn Proj Office Proj Mngmnt CR11-007	01-Nov-10	30-Sep-11	45.40	\$531,076	173.40	\$0	\$531,076	\$0	0.00																			
171912LOE	FY12 Constrcn Proj Office Proj Mngmnt Part A	03-Oct-11	30-Mar-12	24.00	\$983,358	274.69	\$0	\$1,003,411	\$20,053	0.00																			
171912LOEA	FY12 Constrcn Proj Office Proj Mngmnt Part B	02-Apr-12	28-Sep-12	25.40	\$813,361	223.30	\$0	\$833,361	\$20,000	0.00																			
171913LOE	FY13 Constrcn Proj Office Proj Mngmnt Part A	01-Oct-12	29-Mar-13	24.00	\$839,293	223.30	\$0	\$859,931	\$20,638	0.00																			
171913LOEA	FY13 Constrcn Proj Office Proj Mngmnt Part B	01-Apr-13	30-Sep-13	25.60	\$839,293	223.30	\$0	\$859,931	\$20,638	0.00																			
<b>1.7.2 OFFICE OF PROJECT MANAGEMENT</b>		<b>01-Oct-08</b>	<b>30-Sep-13</b>	<b>247.80</b>	<b>\$0</b>	<b>0.00</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>0.00</b>																			
172909LOE	FY09 OPM Proj Mngmnt	01-Oct-08	30-Sep-09	49.60	\$0	0.00	\$0	\$0	\$0	0.00																			
172910LOE	FY10 OPM Proj Mngmnt	01-Oct-09	30-Sep-10	49.60	\$0	0.00	\$0	\$0	\$0	0.00																			
172911LOE	FY11 OPM Proj Mngmnt	01-Oct-10	30-Sep-11	49.60	\$0	0.00	\$0	\$0	\$0	0.00																			
172912LOE	FY12 OPM Proj Mngmnt	03-Oct-11	28-Sep-12	49.40	\$0	0.00	\$0	\$0	\$0	0.00																			
172913LOE	FY13 OPM Proj Mngmnt	01-Oct-12	30-Sep-13	49.60	\$0	0.00	\$0	\$0	\$0	0.00																			
<b>1.8 CONSTRUCTION PRE-OPS</b>		<b>01-Oct-12</b>	<b>30-Jun-15</b>	<b>136.00</b>	<b>\$5,411,011</b>	<b>1979.52</b>	<b>\$4,067,492</b>	<b>\$10,643,126</b>	<b>\$1,164,624</b>	<b>0.00</b>																			
18000	Accelerator Schedule Contingency Activity	26-Jun-14	30-Dec-14	25.00	\$0	0.00	\$0	\$0	\$0	0.00																			
18005	Hall A Schedule Contingency Activity	11-Feb-14	05-Feb-15	49.00	\$0	0.00	\$0	\$0	\$0	20.20																			
18010	Hall D Schedule Contingency Activity	17-Jun-14	11-Jun-15	49.00	\$0	0.00	\$0	\$0	\$0	2.60																			
18015	Hall B Schedule Contingency Activity	30-Jun-15	30-Jun-15	0.20	\$0	0.00	\$0	\$0	\$0	0.00																			
18020	Hall C Schedule Contingency Activity	07-Apr-15	04-May-15	4.00	\$0	0.00	\$0	\$0	\$0	8.00																			
<b>1.8.1 CONSTRUCTION ACCELERATOR PRE-OPS</b>		<b>01-Oct-12</b>	<b>29-Jun-15</b>	<b>135.80</b>	<b>\$1,695,454</b>	<b>748.58</b>	<b>\$4,063,870</b>	<b>\$6,431,658</b>	<b>\$672,334</b>	<b>0.00</b>																			
<b>1.8.1.1 CONSTRUCTION ACCELERATOR PRE-OPS BEAM COMMISSIONING</b>		<b>29-Mar-13</b>	<b>29-Jun-15</b>	<b>112.00</b>	<b>\$936,208</b>	<b>431.60</b>	<b>\$0</b>	<b>\$936,208</b>	<b>\$0</b>	<b>0.00</b>																			
1811000	Accel Hot Check-out	01-Oct-13	14-Oct-13	2.00	\$164,419	77.20	\$0	\$164,419	\$0	5.80																			
1811001	Accel ARR Process	01-Aug-13	24-Oct-13	12.00	\$0	0.00	\$0	\$0	\$0	5.80																			
1811005	Accel Beam Cmssng	25-Oct-13	02-Dec-13	5.00	\$421,607	188.00	\$0	\$421,607	\$0	5.80																			
1811019	H-A ARR Process	29-Mar-13	25-Apr-13	4.00	\$0	0.00	\$0	\$0	\$0	45.20																			
1811020	H-A Beam Cmssng	06-Feb-14	10-Feb-14	0.60	\$26,937	12.80	\$0	\$26,937	\$0	6.80																			
1811034	H-B ARR Process	20-Apr-15	15-Jun-15	8.00	\$0	0.00	\$0	\$0	\$0	0.00																			
1811035	H-B Beam Cmssng	16-Jun-15	29-Jun-15	2.00	\$107,748	51.20	\$0	\$107,748	\$0	0.00																			
1811049	H-C ARR Process	02-Feb-15	30-Mar-15	8.00	\$0	0.00	\$0	\$0	\$0	8.00																			
1811050	H-C Beam Cmssng	31-Mar-15	06-Apr-15	1.00	\$53,874	25.60	\$0	\$53,874	\$0	8.00																			
1811064	H-D ARR Process	03-Mar-14	23-May-14	12.00	\$0	0.00	\$0	\$0	\$0	2.60																			
1811065	H-D Beam Cmssng	27-May-14	16-Jun-14	3.00	\$161,622	76.80	\$0	\$161,622	\$0	2.60																			
<b>1.8.1.2 CONSTRUCTION ACCELERATOR PRE-OPS UTILITIES</b>		<b>01-Oct-13</b>	<b>29-Jun-15</b>	<b>86.20</b>	<b>\$198,952</b>	<b>85.10</b>	<b>\$4,063,870</b>	<b>\$4,262,822</b>	<b>\$0</b>	<b>0.00</b>																			
1812000	Accel Hot Check-out (Utilities)	01-Oct-13	14-Oct-13	2.00	\$30,501	12.80	\$348,918	\$379,419	\$0	5.80																			
1812005	Accel Beam Cmssng (Utilities)	25-Oct-13	02-Dec-13	5.00	\$76,521	32.10	\$1,092,633	\$1,169,154	\$0	5.80																			
1812020	H-B Beam Cmssng (Utilities)	16-Jun-15	29-Jun-15	2.00	\$28,169	12.30	\$670,068	\$698,236	\$0	0.00																			
1812035	H-C Beam Cmssng (Utilities)	31-Mar-15	06-Apr-15	1.00	\$14,412	6.30	\$534,847	\$549,259	\$0	8.00																			
1812050	H-D Beam Cmssng (Utilities)	27-May-14	16-Jun-14	3.00	\$42,289	18.50	\$950,168	\$992,457	\$0	2.60																			
1812065	H-A Beam Cmssng (Utilities)	06-Feb-14	10-Feb-14	0.60	\$7,060	3.10	\$467,236	\$474,297	\$0	6.80																			
<b>1.8.1.3 ACCELERATOR PRE-OPS CHECKOUT</b>		<b>01-Oct-12</b>	<b>23-Aug-13</b>	<b>44.60</b>	<b>\$560,295</b>	<b>231.88</b>	<b>\$0</b>	<b>\$1,232,628</b>	<b>\$672,334</b>	<b>14.40</b>																			
<b>1.8.1.3.1 CRYOMODULES ACCELERATOR PRE-OPS</b>		<b>29-Jan-13</b>	<b>23-Aug-13</b>	<b>29.20</b>	<b>\$268,364</b>	<b>104.40</b>	<b>\$0</b>	<b>\$301,328</b>	<b>\$32,964</b>	<b>1.00</b>																			
<b>1.8.1.3.1.5 CRYOMODULES IN-TUNNEL CHECKOUT</b>		<b>29-Jan-13</b>	<b>23-Aug-13</b>	<b>29.20</b>	<b>\$268,364</b>	<b>104.40</b>	<b>\$0</b>	<b>\$301,328</b>	<b>\$32,964</b>	<b>1.00</b>																			
181315000	In-Tunnel Checkout and Commissioning Cryomodule #3 5th	29-Jan-13	04-Mar-13	4.80	\$44,727	17.40	\$0	\$50,221	\$5,494	1.00																			
181315005	In-Tunnel Checkout and Commissioning Cryomodule #6	05-Mar-13	05-Apr-13	4.80	\$44,727	17.40	\$0	\$50,221	\$5,494	1.00																			
181315010	In-Tunnel Checkout and Commissioning Cryomodule #7	08-Apr-13	10-May-13	5.00	\$44,727	17.40	\$0	\$50,221	\$5,494	1.00																			
181315015	In-Tunnel Checkout and Commissioning Cryomodule #8	13-May-13	14-Jun-13	4.80	\$44,727	17.40	\$0	\$50,221	\$5,494	1.00																			
181315020	In-Tunnel Checkout and Commissioning Cryomodule #9	17-Jun-13	19-Jul-13	4.80	\$44,727	17.40	\$0	\$50,221	\$5,494	1.00																			
181315025	In-Tunnel Checkout and Commissioning Cryomodule #10	22-Jul-13	23-Aug-13	5.00	\$44,727	17.40	\$0	\$50,221	\$5,494	1.00																			
<b>1.8.1.3.2 POWER PRE-OPS CHECKOUT</b>		<b>30-Oct-12</b>	<b>23-Aug-13</b>	<b>40.40</b>	<b>\$129,022</b>	<b>60.00</b>	<b>\$0</b>	<b>\$132,129</b>	<b>\$3,108</b>	<b>2.60</b>																			
<b>1.8.1.3.2.1 RF PRE-OPS CHECKOUT</b>		<b>30-Oct-12</b>	<b>23-Aug-13</b>	<b>40.40</b>	<b>\$129,022</b>	<b>60.00</b>	<b>\$0</b>	<b>\$132,129</b>	<b>\$3,108</b>	<b>2.60</b>																			
181321000	RF Sys Tests #5 (Install & SYS COMMIS)	30-Oct-12	19-Nov-12	3.00	\$9,957	4.90	\$0	\$10,216	\$260	9.20																			
181321005	RF Sys Tests #6 (Install & SYS COMMIS)	17-Jan-13	07-Feb-13	3.00	\$9,957	4.90	\$0	\$10,216	\$260	4.20																			
181321010	RF Sys Tests #7 (Install & SYS COMMIS)	07-Feb-13	28-Feb-13	3.00	\$9,957	4.90	\$0	\$10,216	\$260	6.20																			
181321015	RF Sys Tests #8 (Install & SYS COMMIS)	27-Feb-13	19-Mar-13																										





Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
182432075	Check-out Experiment Control Software Target	12-Mar-13	30-Sep-13	28.40	\$6,020	2.07	\$0	\$6,020	\$0	14.80																		
182432080	Check-out Experiment Control Software DAQ Interface	21-Feb-13	30-Sep-13	31.00	\$3,285	1.13	\$0	\$3,285	\$0	17.40																		
182432085	Level 1 Trigger Expert Software	10-Apr-13	30-Sep-13	24.20	\$14,015	4.84	\$0	\$14,015	\$0	10.60																		
<b>1.8.2.4.4 HALL D TRIGGER AND ELECTRONICS CHECKOUT</b>		01-Oct-12	30-Sep-13	49.60	\$158,499	58.88	\$0	\$158,499	\$0	28.40																		
<b>1.8.2.4.3 HALL D TRIGGER BOARDS ACCEPTANCE TESTING</b>		01-Oct-12	30-Sep-13	49.60	\$124,947	42.90	\$0	\$124,947	\$0	22.40																		
182443000	Acceptance test of TS board (FE grp)	01-Mar-13	30-Jul-13	21.20	\$17,474	6.00	\$0	\$17,474	\$0	31.00																		
182443005	Acceptance test of TI boards (FE grp) FY13	01-Oct-12	18-Jan-13	14.40	\$11,335	3.89	\$0	\$11,335	\$0	27.60																		
182443010	Acceptance test of CTP boards (FE grp)	10-Jan-13	30-May-13	19.60	\$23,299	8.00	\$0	\$23,299	\$0	9.40																		
182443015	Acceptance test of SSP boards (FE grp)	10-Jan-13	30-May-13	19.60	\$23,299	8.00	\$0	\$23,299	\$0	9.40																		
182443020	Acceptance test of GTP boards (FE grp)	09-May-13	30-Jul-13	11.40	\$20,387	7.00	\$0	\$20,387	\$0	31.00																		
182443025	Trigger Calibration (Hall D grp)	01-Oct-12	30-Sep-13	49.60	\$29,152	10.01	\$0	\$29,152	\$0	2.60																		
<b>1.8.2.4.6 HALL D DETECTOR ELECTRONICS BOARDS CHECKOUT</b>		01-Oct-12	19-Jul-13	39.60	\$33,552	15.98	\$0	\$33,552	\$0	38.40																		
182446000	Test Power Distribution FY13	01-Oct-12	12-Oct-12	2.00	\$2,410	0.83	\$0	\$2,410	\$0	59.00																		
182446005	Test BCAL Readout System	08-Oct-12	16-Nov-12	6.00	\$8,232	4.10	\$0	\$8,232	\$0	59.00																		
182446010	Test Pair Spectrometer PS Readout Board	05-Dec-12	23-Jan-13	5.80	\$5,572	2.55	\$0	\$5,572	\$0	58.60																		
182446015	Test Pair Spectrometer Transition Board	05-Nov-12	18-Dec-12	6.00	\$1,548	0.85	\$0	\$1,548	\$0	62.40																		
182446020	Test Pair Spectrometer Power Distribution	19-Nov-12	09-Jan-13	6.00	\$1,548	0.85	\$0	\$1,548	\$0	60.40																		
182446025	Test Pair Spectrometer System	24-Jan-13	26-Feb-13	4.60	\$5,572	2.55	\$0	\$5,572	\$0	58.60																		
182446030	Test Start Counter Readout Board	13-May-13	14-Jun-13	4.80	\$5,572	2.55	\$0	\$5,572	\$0	43.20																		
182446035	Test Start Counter Transition Board	20-May-13	21-Jun-13	4.80	\$1,548	0.85	\$0	\$1,548	\$0	42.20																		
182446040	Test Start Counter Power Distribution	10-Jun-13	19-Jul-13	5.80	\$1,548	0.85	\$0	\$1,548	\$0	38.40																		
<b>1.8.3 PRE-OPS SUPPORT</b>		01-Oct-13	30-Jun-15	86.40	\$2,577,855	636.80	\$0	\$3,070,145	\$492,290	0.00																		
<b>1.8.3.1 PRE-OPS SUPPORT - PROJECT OFFICE</b>		01-Oct-13	30-Jun-15	86.40	\$2,577,855	636.80	\$0	\$3,070,145	\$492,290	0.00																		
1831914LOE	FY14 Pre-Ops Supprt - Proj Office	01-Oct-13	30-Sep-14	49.60	\$1,418,406	365.60	\$0	\$1,561,707	\$143,301	0.00																		
1831915LOE	FY15 Pre-Ops Supprt - Proj Office	01-Oct-14	30-Jun-15*	36.80	\$1,159,449	271.20	\$0	\$1,508,438	\$348,988	0.00																		
<b>1.8.3.2 PRE-OPS SUPPORT - OFFICE OF PROJECT MANAGEMENT</b>		01-Oct-13	31-Dec-14	61.40	\$0	0.00	\$0	\$0	\$0	0.00																		
1832914LOE	FY14 Pre-OPS Supprt Office of Proj Mngmnt	01-Oct-13	30-Sep-14	49.60	\$0	0.00	\$0	\$0	\$0	0.00																		
1832915LOE	FY15 Pre-OPS Supprt Office of Proj Mngmnt	01-Oct-14	31-Dec-14*	11.80	\$0	0.00	\$0	\$0	\$0	0.00																		
<b>1.9 VA STATE</b>		01-Mar-10	22-Aug-13	173.60	\$42,048	25.12	\$8,449,979	\$8,656,974	\$164,947	66.60																		
<b>1.9.5 HALL D - VA STATE</b>		01-Mar-10	29-Mar-13	153.20	\$0	0.00	\$4,259,474	\$4,259,474	\$0	42.00																		
<b>1.9.5.2 HALL D DETECTORS</b>		01-Mar-10	29-Mar-13	153.20	\$0	0.00	\$4,259,474	\$4,259,474	\$0	42.00																		
<b>1.9.5.2.1 HALL D TRACKING</b>		06-Apr-10	29-Mar-13	148.00	\$0	0.00	\$422,401	\$422,401	\$0	15.20																		
<b>1.9.5.2.1.2 HALL D CENTRAL CHAMBERS</b>		06-Apr-10	29-Mar-13	148.00	\$0	0.00	\$422,401	\$422,401	\$0	15.20																		
195212010	Procurement epoxy with delivery in phases (P1 Construction Setup & Straw Penetration)	06-Apr-10	30-Jul-10	16.40	\$0	0.00	\$22,373	\$22,373	\$0	15.20																		
195212015	Installation mandril and end plates (P1 Construction Setup & Straw Penetration)	06-Apr-10	30-Jul-10	16.40	\$0	0.00	\$6,391	\$6,391	\$0	15.20																		
195212020	Aligned and fix end plates (P1 Construction Setup & Straw Penetration) (P2 Straw Inse...)	06-Apr-10	30-Jul-10	16.40	\$0	0.00	\$19,172	\$19,172	\$0	15.20																		
195212025	Straw Preparation Axial section 1 (P2 Straw Insertion)	06-Apr-10	31-Aug-10	20.80	\$0	0.00	\$3,168	\$3,168	\$0	15.20																		
195212030	Insert straws Axial section 1 (P2 Straw Insertion)	06-Apr-10	31-Aug-10	20.80	\$0	0.00	\$3,168	\$3,168	\$0	15.20																		
195212035	Straw preparation Stereo section 1-L (P2 Straw Insertion)	06-Apr-10	31-Aug-10	20.80	\$0	0.00	\$4,702	\$4,702	\$0	15.20																		
195212040	Insert straws Stereo section 1-L (Phase 2 Straw Insertion)	06-Apr-10	31-Aug-10	20.80	\$0	0.00	\$4,702	\$4,702	\$0	15.20																		
195212045	Straw preparation Stereo section 1-R (P2 Straw Insertion)	06-Apr-10	30-Sep-10	25.00	\$0	0.00	\$6,363	\$6,363	\$0	15.20																		
195212050	Insert straws Stereo section 1-R (P2 Straw Insertion)	06-Apr-10	30-Sep-10	25.00	\$0	0.00	\$6,363	\$6,363	\$0	15.20																		
195212055	Straw preparation Axial section 2 (P2 Straw Insertion)	06-Apr-10	30-Sep-10	25.00	\$0	0.00	\$8,280	\$8,280	\$0	15.20																		
195212060	Insert straws axial section 2 (P2 Straw Insertion)	06-Apr-10	29-Oct-10	29.20	\$0	0.00	\$8,280	\$8,280	\$0	15.20																		
195212065	Straw preparation stereo section 2-R-1 (P2 Straw Insertion)	06-Apr-10	30-Nov-10	33.20	\$0	0.00	\$4,734	\$4,734	\$0	15.20																		
195212070	Insert straws stereo section 2-R-1 (P2 Straw Insertion)	06-Apr-10	30-Nov-10	33.20	\$0	0.00	\$4,734	\$4,734	\$0	15.20																		
195212075	Straw preparation stereo section 2-R-2 (P2 Straw Insertion)	06-Apr-10	30-Dec-10	36.60	\$0	0.00	\$5,117	\$5,117	\$0	15.20																		
195212080	Insert straws stereo section 2-R-2 (P2 Straw Insertion)	06-Apr-10	30-Dec-10	36.60	\$0	0.00	\$5,117	\$5,117	\$0	15.20																		
195212085	Straw preparation stereo section 2-L-1 (P2 Straw Insertion)	06-Apr-10	31-Jan-11	40.60	\$0	0.00	\$5,500	\$5,500	\$0	15.20																		
195212090	Insert straws stereo section 2-L-1 (P2 Straw Insertion)	06-Apr-10	31-Jan-11	40.60	\$0	0.00	\$5,500	\$5,500	\$0	15.20																		
195212095	Straw preparation stereo section 2-L-2 (P2 Straw Insertion)	06-Apr-10	31-Jan-11	40.60	\$0	0.00	\$5,884	\$5,884	\$0	15.20																		
195212100	Insert straws stereo section 2-L-2 (P2 Straw Insertion)	06-Apr-10	31-Jan-11	40.60	\$0	0.00	\$5,884	\$5,884	\$0	15.20																		
195212105	Straw preparation Axial Section 3-1 (P2 Straw Insertion)	06-Apr-10	28-Feb-11	44.40	\$0	0.00	\$6,395	\$6,395	\$0	15.20																		
195212110	Insert straws axial section 3-1 (P2 Straw Insertion)	06-Apr-10	28-Feb-11	44.40	\$0	0.00	\$6,395	\$6,395	\$0	15.20																		
195212115	Straw preparation Axial Section 3-2 (P2 Straw Insertion)	06-Apr-10	31-Mar-11	49.00	\$0	0.00																						



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023
195212135	Installation outer shell (P3 Shell Installation)	06-Apr-10	31-May-11	57.40	\$0	0.00	\$10,586	\$10,586	\$0	15.20																	
195212140	String 1st axial section (P3 Chamber stringing)	06-Apr-10	31-May-11	57.40	\$0	0.00	\$6,335	\$6,335	\$0	15.20																	
195212145	String 1st stereo section (P3 Chamber stringing)	06-Apr-10	30-Jun-11	61.80	\$0	0.00	\$9,403	\$9,403	\$0	15.20																	
195212150	String 2nd stereo section (P3 Chamber stringing)	06-Apr-10	31-May-11	57.40	\$0	0.00	\$12,726	\$12,726	\$0	15.20																	
195212155	String 2nd axial section (P3 Chamber stringing)	06-Apr-10	31-Aug-11	70.40	\$0	0.00	\$16,560	\$16,560	\$0	15.20																	
195212160	String 3rd stereo section (inner) (P3 Chamber stringing)	06-Apr-10	31-Aug-11	70.40	\$0	0.00	\$9,467	\$9,467	\$0	15.20																	
195212165	String 3rd stereo section (outer) (P3 Chamber stringing)	06-Apr-10	30-Sep-11	74.60	\$0	0.00	\$10,234	\$10,234	\$0	15.20																	
195212170	String 4th stereo section (inner) (P3 Chamber stringing)	06-Apr-10	31-Oct-11	78.80	\$0	0.00	\$11,000	\$11,000	\$0	15.20																	
195212175	String 4th stereo section (outer) (P3 Chamber stringing)	06-Apr-10	30-Nov-11	82.80	\$0	0.00	\$11,767	\$11,767	\$0	15.20																	
195212180	String 3rd axial section (inner) (P3 Chamber stringing)	06-Apr-10	30-Dec-11	86.20	\$0	0.00	\$12,790	\$12,790	\$0	15.20																	
195212185	String 3rd axial section (outer) (P3 Chamber stringing)	06-Apr-10	31-Jan-12	90.20	\$0	0.00	\$13,557	\$13,557	\$0	15.20																	
195212190	Electronics installation 1st axial section (P4 Chamber instrumentation)	06-Apr-10	31-Jan-12	90.20	\$0	0.00	\$4,162	\$4,162	\$0	15.20																	
195212195	Electronics installation 1st stereo section (P4 Chamber instrumentation)	06-Apr-10	29-Feb-12	94.20	\$0	0.00	\$6,143	\$6,143	\$0	15.20																	
195212200	Electronics installation 2nd stereo section (P4 Chamber instrumentation)	06-Apr-10	29-Feb-12	94.20	\$0	0.00	\$8,290	\$8,290	\$0	15.20																	
195212205	Electronics installation 2nd axial section (P4 Chamber instrumentation)	06-Apr-10	30-Mar-12	98.60	\$0	0.00	\$10,766	\$10,766	\$0	15.20																	
195212210	Electronics installation 3rd stereo section (inner) (P4 Chamber instrumentation)	06-Apr-10	30-Mar-12	98.60	\$0	0.00	\$6,185	\$6,185	\$0	15.20																	
195212215	Electronics installation 3rd stereo section (outer) (P4 Chamber instrumentation)	06-Apr-10	30-Apr-12	102.80	\$0	0.00	\$6,680	\$6,680	\$0	15.20																	
195212220	Electronics installation 4th stereo section (inner) (P4 Chamber instrumentation)	06-Apr-10	30-Apr-12	102.80	\$0	0.00	\$7,175	\$7,175	\$0	15.20																	
195212225	Electronics installation 4th stereo section (outer) (P4 Chamber instrumentation)	06-Apr-10	31-May-12	107.20	\$0	0.00	\$7,671	\$7,671	\$0	15.20																	
195212230	Electronics installation 3rd axial section (inner) (P4 Chamber instrumentation)	06-Apr-10	31-May-12	107.20	\$0	0.00	\$8,331	\$8,331	\$0	15.20																	
195212235	Electronics installation 3rd axial section (outer) (P4 Chamber instrumentation)	06-Apr-10	29-Jun-12	111.20	\$0	0.00	\$8,826	\$8,826	\$0	15.20																	
195212240	Close up gas upstream and downstream gas plenum (P5 Chamber operational tests)	06-Apr-10	31-Jul-12	115.60	\$0	0.00	\$10,086	\$10,086	\$0	15.20																	
195212245	Gas leak tests (P5 Chamber operational tests)	06-Apr-10	31-Aug-12	120.20	\$0	0.00	\$16,477	\$16,477	\$0	15.20																	
195212250	HV tests (P5 Chamber operational tests)	06-Apr-10	31-Oct-12	128.60	\$0	0.00	\$15,768	\$15,768	\$0	15.20																	
195212255	Operations Test (P5 Chamber operational tests)	06-Apr-10	28-Feb-13	143.80	\$0	0.00	\$10,446	\$10,446	\$0	15.20																	
195212260	Phase 7 Chamber shipping	06-Apr-10	29-Mar-13	148.00	\$0	0.00	\$5,000	\$5,000	\$0	15.20																	
<b>1.9.5.2.2 HALL D CALORIMETRY</b>		01-Mar-10	29-Jun-12	116.40	\$0	0.00	\$3,837,073	\$3,837,073	\$0	78.80																	
<b>1.9.5.2.2.1 HALL D BARREL CALORIMETER</b>		02-Mar-10	29-Jun-12	116.20	\$0	0.00	\$2,809,973	\$2,809,973	\$0	78.80																	
195221000	Proc SciFi Mods P-3 FY11 October Delivery	01-Oct-10	29-Oct-10	4.20	\$0	0.00	\$104,886	\$104,886	\$0	57.80																	
195221001	Proc SciFi Mods P-3 FY11 November Delivery	01-Oct-10	30-Nov-10	8.20	\$0	0.00	\$104,886	\$104,886	\$0	57.80																	
195221015	Bcal Module Construction Manager Phase 2 (LOE)	02-Mar-10	31-Dec-10	41.80	\$0	0.00	\$81,180	\$81,180	\$0	30.60																	
195221020	Bcal Module Construction Manager Phase 3 (LOE)	04-Jan-11	30-Dec-11	49.40	\$0	0.00	\$95,832	\$95,832	\$0	30.60																	
195221025	Bcal Module Construction Manager Phase 4 (LOE)	03-Jan-12	22-May-12	19.80	\$0	0.00	\$36,828	\$36,828	\$0	30.60																	
195221030	Module #9 Matrix Fabrication	02-Mar-10	30-Apr-10	8.80	\$0	0.00	\$12,842	\$12,842	\$0	132.80																	
195221035	Module #9 Machining and Shipping	02-Mar-10	12-Jul-10	18.60	\$0	0.00	\$4,607	\$4,607	\$0	122.00																	
195221040	Module #10 Matrix Fabrication	02-Mar-10	30-Apr-10	8.80	\$0	0.00	\$12,842	\$12,842	\$0	132.80																	
195221045	Module #10 Machining and Shipping	02-Mar-10	12-Jul-10	18.60	\$0	0.00	\$4,607	\$4,607	\$0	122.00																	
195221050	Module #11 Matrix Fabrication	02-Mar-10	08-Jun-10	14.00	\$0	0.00	\$12,842	\$12,842	\$0	127.60																	
195221055	Module #11 Machining and Shipping	02-Mar-10	12-Jul-10	18.60	\$0	0.00	\$4,607	\$4,607	\$0	122.00																	
195221060	Module #12 Matrix Fabrication	02-Mar-10	08-Jun-10	14.00	\$0	0.00	\$12,842	\$12,842	\$0	127.60																	
195221065	Module #12 Machining and Shipping	02-Mar-10	12-Jul-10	18.60	\$0	0.00	\$4,607	\$4,607	\$0	122.00																	
195221070	Module #13 Matrix Fabrication	02-Mar-10	15-Jul-10	19.20	\$0	0.00	\$12,842	\$12,842	\$0	122.40																	
195221075	Module #13 Machining and Shipping	02-Mar-10	24-Sep-10	29.20	\$0	0.00	\$4,607	\$4,607	\$0	111.40																	
195221080	Module #14 Matrix Fabrication	02-Mar-10	15-Jul-10	19.20	\$0	0.00	\$12,842	\$12,842	\$0	122.40																	
195221085	Module #14 Machining and Shipping	02-Mar-10	24-Sep-10	29.20	\$0	0.00	\$4,607	\$4,607	\$0	111.40																	
195221090	Module #15 Matrix Fabrication	02-Mar-10	23-Aug-10	24.60	\$0	0.00	\$12,842	\$12,842	\$0	117.00																	
195221095	Module #15 Machining and Shipping	02-Mar-10	24-Sep-10	29.20	\$0	0.00	\$4,607	\$4,607	\$0	111.40																	
195221100	Module #16 Matrix Fabrication	02-Mar-10	23-Aug-10	24.60	\$0	0.00	\$12,842	\$12,842	\$0	117.00																	
195221105	Module #16 Machining and Shipping	02-Mar-10	24-Sep-10	29.20	\$0	0.00	\$4,607	\$4,607	\$0	111.40																	
195221110	Module #17 Matrix Fabrication	02-Mar-10	29-Sep-10	29.80	\$0	0.00	\$12,842	\$12,842	\$0	111.80																	
195221115	Module #17 Machining and Shipping	02-Mar-10	09-Dec-10	39.60	\$0	0.00	\$4,607	\$4,607	\$0	101.00																	
195221120	Module #18 Matrix Fabrication	02-Mar-10	29-Sep-10	29.80	\$0	0.00	\$12,842	\$12,842	\$0	111.80																	
195221125	Module #18 Machining and Shipping	02-Mar-10	09-Dec-10	39.60	\$0	0.00	\$4,607	\$4,607	\$0	101.00																	
195221130	Module #19 Matrix Fabrication	02-Mar-10	05-Nov-10	35.20	\$0	0.00	\$12,842	\$12,842	\$0	106.40																	
195221135	Module #19 Machining and Shipping	02-Mar-10	29-Dec-10	41.40	\$0	0.00	\$4,607	\$4,607	\$0																		

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	023
195221150	Module #21 Matrix Fabrication	02-Mar-10	14-Dec-10	40.20	\$0	0.00	\$12,842	\$12,842	\$0	101.40																	
195221155	Module #21 Machining and Shipping	02-Mar-10	23-Feb-11	48.80	\$0	0.00	\$4,607	\$4,607	\$0	91.80																	
195221160	Module #22 Matrix Fabrication	02-Mar-10	14-Dec-10	40.20	\$0	0.00	\$12,842	\$12,842	\$0	101.40																	
195221165	Module #22 Machining and Shipping	02-Mar-10	23-Feb-11	48.80	\$0	0.00	\$4,607	\$4,607	\$0	91.80																	
195221170	Module #23 Matrix Fabrication	02-Mar-10	20-Jan-11	44.20	\$0	0.00	\$12,842	\$12,842	\$0	97.40																	
195221175	Module #23 Machining and Shipping	02-Mar-10	23-Feb-11	48.80	\$0	0.00	\$4,607	\$4,607	\$0	91.80																	
195221180	Module #24 Matrix Fabrication	02-Mar-10	20-Jan-11	44.20	\$0	0.00	\$12,842	\$12,842	\$0	97.40																	
195221185	Module #24 Machining and Shipping	02-Mar-10	23-Feb-11	48.80	\$0	0.00	\$4,607	\$4,607	\$0	91.80																	
195221190	Module #25 Matrix Fabrication	04-Jan-11	28-Feb-11	7.60	\$0	0.00	\$12,842	\$12,842	\$0	92.20																	
195221195	Module #25 Machining and Shipping	04-Jan-11	10-May-11	17.80	\$0	0.00	\$4,607	\$4,607	\$0	81.00																	
195221200	Module #26 Matrix Fabrication	04-Jan-11	28-Feb-11	7.60	\$0	0.00	\$12,842	\$12,842	\$0	92.20																	
195221205	Module #26 Machining and Shipping	04-Jan-11	10-May-11	17.80	\$0	0.00	\$4,607	\$4,607	\$0	81.00																	
195221210	Module #27 Matrix Fabrication	04-Jan-11	06-Apr-11	13.00	\$0	0.00	\$12,842	\$12,842	\$0	86.80																	
195221215	Module #27 Machining and Shipping	04-Jan-11	10-May-11	17.80	\$0	0.00	\$4,607	\$4,607	\$0	81.00																	
195221220	Module #28 Matrix Fabrication	04-Jan-11	06-Apr-11	13.00	\$0	0.00	\$12,842	\$12,842	\$0	86.80																	
195221225	Module #28 Machining and Shipping	04-Jan-11	10-May-11	17.80	\$0	0.00	\$4,607	\$4,607	\$0	81.00																	
195221230	Module #29 Matrix Fabrication	04-Jan-11	13-May-11	18.40	\$0	0.00	\$12,842	\$12,842	\$0	81.40																	
195221235	Module #29 Machining and Shipping	04-Jan-11	25-Jul-11	28.20	\$0	0.00	\$4,607	\$4,607	\$0	70.60																	
195221240	Module #30 Matrix Fabrication	04-Jan-11	13-May-11	18.40	\$0	0.00	\$12,842	\$12,842	\$0	81.40																	
195221245	Module #30 Machining and Shipping	04-Jan-11	25-Jul-11	28.20	\$0	0.00	\$4,607	\$4,607	\$0	70.60																	
195221250	Module #31 Matrix Fabrication	04-Jan-11	21-Jun-11	23.60	\$0	0.00	\$12,842	\$12,842	\$0	76.20																	
195221255	Module #31 Machining and Shipping	04-Jan-11	25-Jul-11	28.20	\$0	0.00	\$4,607	\$4,607	\$0	70.60																	
195221260	Module #32 Matrix Fabrication	04-Jan-11	21-Jun-11	23.60	\$0	0.00	\$12,842	\$12,842	\$0	76.20																	
195221265	Module #32 Machining and Shipping	04-Jan-11	25-Jul-11	28.20	\$0	0.00	\$4,607	\$4,607	\$0	70.60																	
195221270	Module #33 Matrix Fabrication	04-Jan-11	28-Jul-11	28.80	\$0	0.00	\$12,842	\$12,842	\$0	71.00																	
195221275	Module #33 Machining and Shipping	04-Jan-11	07-Oct-11	38.80	\$0	0.00	\$4,607	\$4,607	\$0	60.00																	
195221285	Module #34 Matrix Fabrication	04-Jan-11	28-Jul-11	28.80	\$0	0.00	\$12,842	\$12,842	\$0	71.00																	
195221290	Module #34 Machining and Shipping	04-Jan-11	07-Oct-11	38.80	\$0	0.00	\$4,607	\$4,607	\$0	60.00																	
195221295	Module #35 Matrix Fabrication	04-Jan-11	06-Sep-11	34.20	\$0	0.00	\$12,842	\$12,842	\$0	65.60																	
195221300	Module #35 Machining and Shipping	04-Jan-11	07-Oct-11	38.80	\$0	0.00	\$4,607	\$4,607	\$0	60.00																	
195221305	Module #36 Matrix Fabrication	04-Jan-11	06-Sep-11	34.20	\$0	0.00	\$12,842	\$12,842	\$0	65.60																	
195221310	Module #36 Machining and Shipping	04-Jan-11	07-Oct-11	38.80	\$0	0.00	\$4,607	\$4,607	\$0	60.00																	
195221315	Module #37 Matrix Fabrication	04-Jan-11	12-Oct-11	39.40	\$0	0.00	\$12,842	\$12,842	\$0	60.40																	
195221320	Module #37 Machining and Shipping	04-Jan-11	21-Dec-11	49.00	\$0	0.00	\$4,607	\$4,607	\$0	49.80																	
195221325	Module #38 Matrix Fabrication	04-Jan-11	12-Oct-11	39.40	\$0	0.00	\$12,842	\$12,842	\$0	60.40																	
195221330	Module #38 Machining and Shipping	04-Jan-11	21-Dec-11	49.00	\$0	0.00	\$4,607	\$4,607	\$0	49.80																	
195221335	Module #39 Matrix Fabrication	04-Jan-11	18-Nov-11	44.80	\$0	0.00	\$12,842	\$12,842	\$0	55.00																	
195221340	Module #39 Machining and Shipping	04-Jan-11	21-Dec-11	49.00	\$0	0.00	\$4,607	\$4,607	\$0	49.80																	
195221345	Module #40 Matrix Fabrication	04-Jan-11	18-Nov-11	44.80	\$0	0.00	\$12,842	\$12,842	\$0	55.00																	
195221350	Module #40 Machining and Shipping	04-Jan-11	21-Dec-11	49.00	\$0	0.00	\$4,607	\$4,607	\$0	49.80																	
195221355	Module #41 Matrix Fabrication	04-Jan-11	29-Dec-11	49.20	\$0	0.00	\$12,842	\$12,842	\$0	50.60																	
195221360	Module #41 Machining and Shipping	04-Jan-11	07-Mar-12	58.40	\$0	0.00	\$4,607	\$4,607	\$0	40.40																	
195221365	Module #42 Matrix Fabrication	04-Jan-11	29-Dec-11	49.20	\$0	0.00	\$12,842	\$12,842	\$0	50.60																	
195221370	Module #42 Machining and Shipping	04-Jan-11	07-Mar-12	58.40	\$0	0.00	\$4,607	\$4,607	\$0	40.40																	
195221375	Module #43 Matrix Fabrication	04-Jan-12	02-Feb-12	4.20	\$0	0.00	\$12,842	\$12,842	\$0	46.00																	
195221380	Module #43 Machining and Shipping	04-Jan-12	07-Mar-12	8.80	\$0	0.00	\$4,607	\$4,607	\$0	40.40																	
195221385	Module #44 Matrix Fabrication	04-Jan-12	02-Feb-12	4.20	\$0	0.00	\$12,842	\$12,842	\$0	46.00																	
195221390	Module #44 Machining and Shipping	04-Jan-12	07-Mar-12	8.80	\$0	0.00	\$4,607	\$4,607	\$0	40.40																	
195221395	Module #45 Matrix Fabrication	04-Jan-12	12-Mar-12	9.40	\$0	0.00	\$12,842	\$12,842	\$0	40.80																	
195221400	Module #45 Machining and Shipping	04-Jan-12	22-May-12	19.60	\$0	0.00	\$4,607	\$4,607	\$0	29.60																	
195221405	Module #46 Matrix Fabrication	04-Jan-12	12-Mar-12	9.40	\$0	0.00	\$12,842	\$12,842	\$0	40.80																	
195221410	Module #46 Machining and Shipping	04-Jan-12	22-May-12	19.60	\$0	0.00	\$4,607	\$4,607	\$0	29.60																	
195221415	Module #47 Matrix Fabrication	04-Jan-12	18-Apr-12	14.80	\$0	0.00	\$12,842	\$12,842	\$0	35.40																	
195221420	Module #47 Machining and Shipping	04-Jan-12	22-May-12	19.60	\$0	0.00	\$4,607	\$4,607	\$0	29.60																	
195221425	Module #48 Matrix Fabrication	04-Jan-12	18-Apr-12	14.80	\$0	0.00	\$12,842	\$12,842	\$0	35.40																	
195221430	Module #48 Machining and Shipping	04-Jan-12	22-May-12	19.60	\$0	0.00	\$4,607	\$4,607	\$0	29.60																	



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
195221450	USM Peg Point # 1 Initial Order Placed	09-Jun-11	29-Jul-11	7.20	\$0	0.00	\$282,500	\$282,500	\$0	78.80																		
195221455	USM Peg Point # 2 On-site Review passed	09-Jun-11	30-Nov-11	24.20	\$0	0.00	\$282,500	\$282,500	\$0	78.80																		
195221460	USM Peg Point # 3 Batch #1 Arrival at USM	09-Jun-11	30-Dec-11	27.60	\$0	0.00	\$282,500	\$282,500	\$0	78.80																		
195221465	USM Peg Point # 4 Batch #2 Arrival at USM	09-Jun-11	31-Jan-12	31.60	\$0	0.00	\$282,500	\$282,500	\$0	78.80																		
195221470	USM Peg Point # 5 Qty. 500 MPPCs tested and shipped to JLab	09-Jun-11	31-Jan-12	31.60	\$0	0.00	\$18,928	\$18,928	\$0	78.80																		
195221475	USM Peg Point # 6 Batch #3 Arrival at USM	09-Jun-11	29-Feb-12	35.60	\$0	0.00	\$282,500	\$282,500	\$0	78.80																		
195221480	USM Peg Point # 7 Qty. 500 MPPCs tested and shipped to JLab	09-Jun-11	29-Feb-12	35.60	\$0	0.00	\$18,928	\$18,928	\$0	78.80																		
195221485	USM Peg Point # 8 Batch #4 Arrival at USM	09-Jun-11	30-Mar-12	40.00	\$0	0.00	\$169,500	\$169,500	\$0	78.80																		
195221490	USM Peg Point # 9 Qty. 500 MPPCs tested and shipped to JLab	09-Jun-11	30-Mar-12	40.00	\$0	0.00	\$18,928	\$18,928	\$0	78.80																		
195221495	USM Peg Point # 10 Qty. 500 MPPCs tested and shipped to JLab	09-Jun-11	30-Apr-12	44.20	\$0	0.00	\$18,928	\$18,928	\$0	78.80																		
195221500	USM Peg Point # 11 Qty. 500 MPPCs tested and shipped to JLab	09-Jun-11	31-May-12	48.60	\$0	0.00	\$18,928	\$18,928	\$0	78.80																		
195221505	USM Peg Point # 12 Qty. 300 MPPCs tested and shipped to JLab	09-Jun-11	29-Jun-12	52.60	\$0	0.00	\$11,760	\$11,760	\$0	78.80																		
<b>1.9.5.2.2.2 HALL D FORWARD CALORIMETER</b>		01-Mar-10	29-Jun-12	116.40	\$0	0.00	\$1,027,100	\$1,027,100	\$0	32.20																		
195222010	Prepare top level drawing documentation	01-Mar-10	28-Apr-10	8.60	\$0	0.00	\$0	\$0	\$0	32.20																		
195222015M	Readiness Review	29-Apr-10		0.00	\$0	0.00	\$0	\$0	\$0	32.20																		
195222020	Build Steel Tubes (fab)	01-Mar-10	30-Jun-10	17.40	\$0	0.00	\$52,686	\$52,686	\$0	32.20																		
195222025	Build Steel Tubes (coat)	01-Mar-10	30-Jul-10	21.60	\$0	0.00	\$1,409	\$1,409	\$0	32.20																		
195222030	Build Tube Straps (procure material)	01-Mar-10	30-Jun-10	17.40	\$0	0.00	\$1,932	\$1,932	\$0	32.20																		
195222035	Build Tube Straps (shear)	01-Mar-10	30-Jul-10	21.60	\$0	0.00	\$2,239	\$2,239	\$0	32.20																		
195222040	Build Jack Plates	01-Mar-10	30-Jul-10	21.60	\$0	0.00	\$21,017	\$21,017	\$0	32.20																		
195222045	Build Face Plates	01-Mar-10	28-May-10	13.00	\$0	0.00	\$6,862	\$6,862	\$0	32.20																		
195222050	Pb Glass Preparation (weld straps)	01-Mar-10	29-Oct-10	34.40	\$0	0.00	\$13,830	\$13,830	\$0	32.20																		
195222055	Pb Glass Preparation (clean and wrap glass)	01-Mar-10	30-Dec-10	41.80	\$0	0.00	\$9,267	\$9,267	\$0	32.20																		
195222060	Pb Glass Preparation (attach shield)	01-Mar-10	28-Feb-11	49.60	\$0	0.00	\$10,229	\$10,229	\$0	32.20																		
195222065	Pb Glass Preparation (prepare shipment)	01-Mar-10	31-Mar-11	54.20	\$0	0.00	\$3,120	\$3,120	\$0	32.20																		
195222070	Replacement pmts Testing	01-Mar-10	05-Mar-10	1.00	\$0	0.00	\$1,040	\$1,040	\$0	32.20																		
195222075	PMT Base Rods (procure)	01-Mar-10	30-Jul-10	21.60	\$0	0.00	\$22,847	\$22,847	\$0	32.20																		
195222080	PMT Base Housing (procure tubes)	01-Mar-10	30-Jun-10	17.40	\$0	0.00	\$9,581	\$9,581	\$0	32.20																		
195222085	PMT Base Housing (machine tubes)	01-Mar-10	31-Aug-10	26.00	\$0	0.00	\$3,864	\$3,864	\$0	32.20																		
195222090	PMT Base Housing (fabricate sockets)	01-Mar-10	30-Jul-10	21.60	\$0	0.00	\$16,240	\$16,240	\$0	32.20																		
195222095	PMT Base Housing (insert pins)	01-Mar-10	31-Aug-10	26.00	\$0	0.00	\$4,159	\$4,159	\$0	32.20																		
195222100	PMT Base Housing (package for assembly)	01-Mar-10	31-Aug-10	26.00	\$0	0.00	\$208	\$208	\$0	32.20																		
195222105	PMT Base Housing (back plate)	01-Mar-10	30-Jul-10	21.60	\$0	0.00	\$12,628	\$12,628	\$0	32.20																		
195222110	PMT Base Housing assembly	01-Mar-10	31-Mar-10	4.60	\$0	0.00	\$1,040	\$1,040	\$0	32.20																		
195222115	Prepare Base Circuit Fabrication Drawings	01-Mar-10	30-Jul-10	21.60	\$0	0.00	\$11,079	\$11,079	\$0	32.20																		
195222120M	Jlab Reveiw and Approval of Base Circuit Design	21-Jul-10		0.00	\$0	0.00	\$0	\$0	\$0	33.80																		
195222125	First Circuit Board Run PCB's (1/6 total)	01-Mar-10	30-Sep-10	30.20	\$0	0.00	\$12,718	\$12,718	\$0	32.20																		
195222130	First Circuit Board Run Parts (1/6 total)	01-Mar-10	31-Aug-10	26.00	\$0	0.00	\$84,170	\$84,170	\$0	32.20																		
195222135	First Circuit Board Run Populate (1/6 total)	01-Mar-10	30-Sep-10	30.20	\$0	0.00	\$35,709	\$35,709	\$0	32.20																		
195222140	First Circuit Board Tester (1/6 total)	01-Mar-10	31-Aug-10	26.00	\$0	0.00	\$4,088	\$4,088	\$0	32.20																		
195222145	First Circuit Board Run Assembly (1/6 total)	01-Mar-10	30-Dec-10	41.80	\$0	0.00	\$13,226	\$13,226	\$0	32.20																		
195222150	First Circuit Board Run Testing (1/6 total)	01-Mar-10	31-Mar-11	54.20	\$0	0.00	\$44,316	\$44,316	\$0	32.20																		
195222155	Second Circuit Board Run PCBs (5/6 total)	01-Mar-10	30-Dec-11	91.40	\$0	0.00	\$33,283	\$33,283	\$0	32.20																		
195222160	Second Circuit Board Run Parts (5/6 total)	01-Mar-10	31-Aug-11	75.60	\$0	0.00	\$186,396	\$186,396	\$0	32.20																		
195222165	Second Circuit Board Run Populate (5/6 total)	01-Mar-10	30-Dec-11	91.40	\$0	0.00	\$156,132	\$156,132	\$0	32.20																		
195222170	Second Circuit Board Run Assemble and Test (5/6 total)	01-Mar-10	30-Mar-12	103.80	\$0	0.00	\$64,990	\$64,990	\$0	32.20																		
195222175	Prepare Pb Glass Drawings	01-Mar-10	28-May-10	13.00	\$0	0.00	\$0	\$0	\$0	32.20																		
195222180M	Jlab Reveiw and Approval of Support Drawings	01-Mar-10		0.00	\$0	0.00	\$0	\$0	\$0	45.20																		
195222185	Procure Materials for PB Glass Support	01-Mar-10	30-Sep-10	30.20	\$0	0.00	\$11,882	\$11,882	\$0	32.20																		
195222190	Machine Components for PB Glass Support	01-Mar-10	29-Apr-11	58.40	\$0	0.00	\$2,778	\$2,778	\$0	32.20																		
195222195	Assemble Pb Glass Support Structure	01-Mar-10	31-May-11	62.60	\$0	0.00	\$14,473	\$14,473	\$0	32.20																		
195222200	Light Guide Material Procurement	01-Mar-10	30-Jul-10	21.60	\$0	0.00	\$9,062	\$9,062	\$0	32.20																		
195222205	Glue and Wrap Light Guides	01-Mar-10	29-Feb-12	99.40	\$0	0.00	\$19,254	\$19,254	\$0	32.20																		
195222210	Slow Control (procure CAN/ethernet devices)	01-Mar-10	31-May-12	112.40	\$0	0.00	\$6,933	\$6,933	\$0	32.20																		
195222215	Slow Control (procure cables)	01-Mar-10																										

Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
19522230	Final PMT Test (test PMT and bases)	01-Mar-10	30-Apr-12	108.00	\$0	0.00	\$6,239	\$6,239	\$0	32.20																			
19522235	Final PMT Test (package and shipment)	01-Mar-10	30-Apr-12	108.00	\$0	0.00	\$1,560	\$1,560	\$0	32.20																			
19522240	Fabricate Optical Cookies (material)	01-Mar-10	31-May-12	112.40	\$0	0.00	\$8,331	\$8,331	\$0	32.20																			
19522245	Fabricate Optical Cookies (cut cookies)	01-Mar-10	29-Jun-12	116.40	\$0	0.00	\$1,757	\$1,757	\$0	32.20																			
19522250	Fabricate Optical Cookies (Package for shipment)	01-Mar-10	29-Jun-12	116.40	\$0	0.00	\$520	\$520	\$0	32.20																			
19522255	Cable Refurbishment (locate and acquire cables)	01-Mar-10	30-Dec-10	41.80	\$0	0.00	\$4,902	\$4,902	\$0	32.20																			
19522260	Cable Refurbishment (procure connectors)	01-Mar-10	30-Dec-10	41.80	\$0	0.00	\$13,749	\$13,749	\$0	32.20																			
19522265	Cable Refurbishment (install connectors)	01-Mar-10	31-Jan-11	45.80	\$0	0.00	\$1,560	\$1,560	\$0	32.20																			
19522270	Cable Refurbishment (package for shipment)	01-Mar-10	31-Jan-11	45.80	\$0	0.00	\$520	\$520	\$0	32.20																			
19522275	Procure Magnetic Shields	01-Mar-10	29-Jun-12	116.40	\$0	0.00	\$49,663	\$49,663	\$0	32.20																			
19522280	Procure Shipping Materials	01-Mar-10	31-Aug-10	26.00	\$0	0.00	\$13,396	\$13,396	\$0	32.20																			
19522285	Shipping to Jlab	01-Mar-10	29-Jun-12	116.40	\$0	0.00	\$9,189	\$9,189	\$0	32.20																			
<b>1.9.6 12 GeV ACCEL BUILDINGS</b>		01-Dec-10	31-Oct-11	45.60	\$0	0.00	\$3,450,000	\$3,450,000	\$0	156.20																			
<b>1.9.6.1 12 GeV N&amp;S ACCESS LCW UPGRADES</b>		01-Dec-10	31-Oct-11	45.60	\$0	0.00	\$3,450,000	\$3,450,000	\$0	156.20																			
1961000	N&S Access LCW Upgrades Constrcn Contract Progress December 2010	01-Dec-10	30-Dec-10	3.40	\$0	0.00	\$0	\$0	\$0	156.20																			
1961000a	N&S Access LCW Upgrades Constrcn Contract Progress January 2011	01-Dec-10	31-Jan-11	7.40	\$0	0.00	\$0	\$0	\$0	156.20																			
1961000b	N&S Access LCW Upgrades Constrcn Contract Progress February 2011	01-Dec-10	28-Feb-11	11.20	\$0	0.00	\$0	\$0	\$0	156.20																			
1961000c	N&S Access LCW Upgrades Constrcn Contract Progress March 2011	01-Dec-10	31-Mar-11	15.80	\$0	0.00	\$184,600	\$184,600	\$0	156.20																			
1961000d	N&S Access LCW Upgrades Constrcn Contract Progress April 2011	01-Dec-10	29-Apr-11	20.00	\$0	0.00	\$844,600	\$844,600	\$0	156.20																			
1961000f	N&S Access LCW Upgrades Constrcn Contract Progress May 2011	01-Dec-10	31-May-11	24.20	\$0	0.00	\$1,106,800	\$1,106,800	\$0	156.20																			
1961000g	N&S Access LCW Upgrades Constrcn Contract Progress June 2011	01-Dec-10	30-Jun-11	28.60	\$0	0.00	\$420,200	\$420,200	\$0	156.20																			
1961000h	N&S Access LCW Upgrades Constrcn Contract Progress July 2011	01-Dec-10	29-Jul-11	32.60	\$0	0.00	\$227,100	\$227,100	\$0	156.20																			
1961000j	N&S Access LCW Upgrades Constrcn Contract Progress August 2011	01-Dec-10	31-Aug-11	37.20	\$0	0.00	\$239,000	\$239,000	\$0	156.20																			
1961000k	N&S Access LCW Upgrades Constrcn Contract Progress September 2011	01-Dec-10	30-Sep-11	41.40	\$0	0.00	\$205,700	\$205,700	\$0	156.20																			
1961000n	N&S Access LCW Upgrades Constrcn Contract Progress October 2011	01-Dec-10	31-Oct-11	45.60	\$0	0.00	\$58,000	\$58,000	\$0	156.20																			
1961005	N&S Access LCW Upgrades Contract Modifications	01-Dec-10	31-Oct-11	45.60	\$0	0.00	\$164,000	\$164,000	\$0	156.20																			
<b>1.9.7 12 GeV Infrastructure</b>		01-Jul-10	22-Aug-13	156.20	\$42,048	25.12	\$740,506	\$947,500	\$164,947	1.20																			
<b>1.9.7.1 12 GeV Misc Infrastructure</b>		01-Jul-10	22-Aug-13	156.20	\$42,048	25.12	\$740,506	\$947,500	\$164,947	1.20																			
19711001M	Space rented for Chamber Work	02-Aug-10		0.00	\$0	0.00	\$0	\$0	\$0	24.30																			
197111005	Procure 2000 Sq. Ft. CLASS 10,000 Clean Room	01-Jul-10	29-Oct-10	17.00	\$0	0.00	\$250,000	\$250,000	\$0	24.30																			
197111010	Procure HVAC Unit	01-Jul-10	31-Aug-10	8.60	\$0	0.00	\$90,000	\$90,000	\$0	28.70																			
197111015	Install HVAC Unit	01-Sep-10	29-Sep-10	4.00	\$10,502	6.29	\$0	\$10,502	\$0	28.70																			
197111020	Modify Building Electrical Distribution FY10	02-Aug-10	30-Sep-10	8.60	\$20,976	12.65	\$0	\$20,976	\$0	24.30																			
197111020a	Modify Building Electrical Distribution FY11	01-Oct-10	29-Oct-10	4.20	\$10,570	6.18	\$0	\$10,570	\$0	24.30																			
197111030M	Space Ready	01-Nov-10		0.00	\$0	0.00	\$0	\$0	\$0	24.30																			
197111045	Blue Crab Phone Lines Upfront Costs	01-Nov-10	30-Nov-10	4.00	\$0	0.00	\$0	\$1,015	\$1,015	1.20																			
197111055	Blue Crab Phone Lines FY11	01-Nov-10	31-Oct-11	49.60	\$0	0.00	\$1,836	\$1,836	\$0	1.20																			
197111058	Blue Crab Phone Lines FY12	01-Nov-11	28-Sep-12	45.20	\$0	0.00	\$0	\$1,737	\$1,737	1.20																			
197111059	Blue Crab Phone Lines FY13	01-Oct-12	22-Aug-13	44.40	\$0	0.00	\$0	\$1,792	\$1,792	1.20																			
197111060	Blue Crab Lease October-2010	01-Oct-10	29-Oct-10	4.20	\$0	0.00	\$34,703	\$34,703	\$0	1.20																			
197111065	Blue Crab Lease	01-Oct-10	22-Aug-13	143.40	\$0	0.00	\$235,255	\$235,255	\$0	1.20																			
197111080	Blue Crab Utilities October-2010	01-Oct-10	29-Oct-10	4.20	\$0	0.00	\$2,052	\$2,052	\$0	1.20																			
197111085	Blue Crab Utilities	01-Oct-10	22-Aug-13	143.40	\$0	0.00	\$57,948	\$57,948	\$0	1.20																			
197111100	Blue Crab Fork Lift-2010	01-Oct-10	29-Oct-10	4.20	\$0	0.00	\$4,685	\$4,685	\$0	71.00																			
197111105	Blue Crab Fork Lift-FY11/12	01-Oct-10	30-Mar-12	73.60	\$0	0.00	\$27,378	\$27,378	\$0	71.00																			
197111110	Blue Crab Shelving	01-Oct-10	29-Oct-10	4.20	\$0	0.00	\$36,649	\$36,649	\$0	140.40																			
197111115	Blue Crab Janitorial October-2010	01-Oct-10	29-Oct-10	4.20	\$0	0.00	\$0	\$240	\$240	12.80																			
197111120	Blue Crab Janitorial FY11	04-Jan-11	30-Sep-11	37.80	\$0	0.00	\$0	\$1,365	\$1,365	12.80																			
197111125	Blue Crab Janitorial FY12	03-Oct-11	28-Sep-12	49.40	\$0	0.00	\$0	\$1,878	\$1,878	12.80																			
197111130	Blue Crab Janitorial FY13	01-Oct-12	31-May-13	32.80	\$0	0.00	\$0	\$1,304	\$1,304	12.80																			
197111135	Blue Crab Misc. Supplies FY11	01-Dec-10	30-Sep-11	41.40	\$0	0.00	\$0	\$77,400	\$77,400	1.20																			
197111140	Blue Crab Misc. Supplies FY12	03-Oct-11	28-Sep-12	49.40	\$0	0.00	\$0	\$51,595	\$51,595	1.20																			
197111145	Blue Crab Misc. Supplies FY13	01-Oct-12	22-Aug-13	44.40	\$0	0.00	\$0	\$26,620	\$26,620	1.20																			
<b>1.10 NON DOE SCOPE</b>		01-Dec-09	21-Jun-13	176.20	\$0	0.00	\$609,000	\$609,000	\$0	5																			



Activity ID	Activity Name	Start	Finish	Original Duration	Budgeted Labor Cost	Budgeted Labor Units	Budgeted Material Cost	Budgeted Total Cost	Budgeted Nonlabor Cost	Total Float	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	
1102231000	Placeholder NSF Wavelength Shifting Fiber Procurement	01-Dec-09	30-Sep-10	41.40	\$0	0.00	\$120,000	\$120,000	\$0	0.00																		
<b>1.10.2.2.3.2 PMT SYSTEM</b>		01-Dec-09	30-Sep-10	41.40	\$0	0.00	\$364,000	\$364,000	\$0	0.00																		
<b>1.10.2.2.3.2.1 PHOTOMULTIPLIER TUBES</b>		01-Dec-09	30-Sep-10	41.40	\$0	0.00	\$218,000	\$218,000	\$0	0.00																		
1102232100	Placeholder NSF Photomultiplier Tube Procurement	01-Dec-09	30-Sep-10	41.40	\$0	0.00	\$218,000	\$218,000	\$0	0.00																		
<b>1.10.2.2.3.2.2 MU-METAL SHIELDS</b>		01-Dec-09	30-Sep-10	41.40	\$0	0.00	\$18,000	\$18,000	\$0	0.00																		
1102232200	Placeholder NSF Mu-Metal Shield Procurement	01-Dec-09	30-Sep-10	41.40	\$0	0.00	\$18,000	\$18,000	\$0	0.00																		
<b>1.10.2.2.3.2.3 HIGH VOLTAGE CABLES</b>		01-Dec-09	30-Sep-10	41.40	\$0	0.00	\$59,000	\$59,000	\$0	0.00																		
1102232300	Placeholder NSF High Voltage Cable Procurement	01-Dec-09	30-Sep-10	41.40	\$0	0.00	\$59,000	\$59,000	\$0	0.00																		
<b>1.10.2.2.3.2.4 SIGNAL SPLITTERS</b>		01-Dec-09	30-Sep-10	41.40	\$0	0.00	\$27,000	\$27,000	\$0	0.00																		
1102232400	Placeholder NSF Signal Splitters Procurement	01-Dec-09	30-Sep-10	41.40	\$0	0.00	\$27,000	\$27,000	\$0	0.00																		
<b>1.10.2.2.3.2.5 ELECTRONICS CABLES</b>		01-Dec-09	30-Sep-10	41.40	\$0	0.00	\$42,000	\$42,000	\$0	0.00																		
1102232500	Placeholder NSF Electronics Cables Procurement	01-Dec-09	30-Sep-10	41.40	\$0	0.00	\$42,000	\$42,000	\$0	0.00																		
<b>1.10.3 HALL C NSERC-FUNDED DETECTORS</b>		01-Oct-10	21-Jun-13	134.80	\$0	0.00	\$125,000	\$125,000	\$0	59.80																		
<b>1.10.3.2 HALL C NSERC-FUNDED DETECTORS- HEAVY GAS CERENKOV</b>		01-Oct-10	21-Jun-13	134.80	\$0	0.00	\$125,000	\$125,000	\$0	59.80																		
<b>1.10.3.2.4 HALL C NSERC-FUNDED-HEAVY GAS CERENKOV</b>		01-Oct-10	21-Jun-13	134.80	\$0	0.00	\$125,000	\$125,000	\$0	59.80																		
110324000	Fab Heavy Gas Cerenkov	01-Oct-10	21-Jun-13	134.80	\$0	0.00	\$125,000	\$125,000	\$0	59.80																		

█ Primary Baseline   
 █ Remaining Work   
 ◆ Baseline Milestone  
█ Actual Work   
 █ Critical Remaining Work   
 ◆ Milestone