

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	Resource Allocation					
						FY10	FY11	FY12	FY13	FY14	FY15
NSTX UPGRADE - CONSTRAINED CASE											
Critical Decisions											
CDR	PROJECT CDR	0		28OCT09*	0.00						
CD1	CD1	0		15DEC09*	0.00						
PDR	PROJECT PDR	0		15JUN10*	0.00						
CD2	CD2	0		14JUL10	0.00						
FDR	PROJECT FDR	0		28MAR11*	0.00						
CD3	CD3	0		25APR11	0.00						
SD-1	NSTX COMPLETE OPERATIONS	0		01AUG12*	0.00						
SD-2	BEGIN UPGRADE OUTAGE	0		29AUG12	0.00						
SD-3	RESUME OPERATIONS (Early Start)	0		01OCT14	0.00						
CD4	CD4	0		18JUN15	0.00						
Job: 1000 - CSU Analytical Support-TITUS											
CS1000010	96 Scenarios Loads, Process Results - Prelim Dsg	140	03NOV09*	28MAY10	19,378.00	TITUS	=100 ;				
CS1000020	Agreed Power Supply Limit Currents - Prelim Dsgn	140	03NOV09	28MAY10	19,378.00	TITUS	=100 ;				
CS1000030	Maintain Model - Scenario Design Changes - Prelm	140	03NOV09	28MAY10	19,378.00	TITUS	=100 ;				
CS1000040	Engineering System Requirements Document - Prelm	140	03NOV09	28MAY10	11,626.80	TITUS	=60 ;				
CS1000050	Review Calculations - Prelim Dsgn	140	03NOV09	28MAY10	5,813.40	EA/EM	=30 ;				
CS1000060	Analysis Reserve - Analyze Problem areas - Prelm	140	03NOV09	28MAY10	0.00						
CS1000070	Documentation-calculations - Prelim Dsgn	140	03NOV09	28MAY10	1,937.80	SIMMONS	=10 ;				
CS1000080	96 Scenarios Loads, Process Results - Final Dsgn	199	01JUN10*	18MAR11	19,506.90	TITUS	=100 ;				
CS1000090	Agreed Power Supply Limit Currents - Final Dsgn	200	01JUN10	21MAR11	19,507.39	TITUS	=100 ;				
CS1000100	Maintain Model - Scenario Design Changes - Final	200	01JUN10	21MAR11	19,507.39	TITUS	=100 ;				
CS1000110	Engineering System Requirements Document - Final	200	01JUN10	21MAR11	15,605.91	TITUS	=80 ;				
CS1000120	Review Calculations - Final Dsgn	200	01JUN10	21MAR11	23,408.87	EA/EM	=120 ;				
CS1000130	Analysis Reserve - Analyze Problem areas - Final	200	01JUN10	21MAR11	70,226.60	EA/EM	=360 ;				
CS1000140	Documentation-calculations - Final Dsgn	200	01JUN10	21MAR11	1,950.74	SIMMONS	=10 ;				
CS1000200	Analysis of Dsgn, Fab & Assembly of Support	638*	22MAR11	30SEP13	174,239.82	TITUS	=863 ;				
Job: 1001 - CS Plasma Facing Components-TRESEMER											
Design											
CS1001060	COMPLETE Tile/Diagnostic/HW Reconfig, Mat. Res.	7	01OCT09	09OCT09	4,544.82	TRESEMER	=18 ; JARIWALA =18 ;				
CS1001070	Complete Tile Thermal Analysis	5	05OCT09	09OCT09	7,462.20	EA/EM	=30 ; TRESEMER =10 ;				
CS1001080	PU CDR prep	5	12OCT09	16OCT09	8,450.80	TRESEMER	=30 ; JARIWALA =40 ;				
CS1001090	PPPL CDR	1	19OCT09	19OCT09	2,019.92	TRESEMER	=08 ; JARIWALA =08 ;				
CS1001100	CDR Chit Resolution	10	03NOV09*	16NOV09	9,223.50	TRESEMER	=40 ; JARIWALA =30 ;				
CS1001110	Tile Analysis Continued?	16	17NOV09	10DEC09	20,406.00	TRESEMER	=60 ; JARIWALA =120 ;				

Data Date: 01OCT09
Run Date: 30NOV09 11:12



CD1C NSTX UPGRADES
RESOURCE LOADED SCHEDULE
Conceptual Design (CD-1)
CONSTRAINED CASE

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10												FY11												FY12												FY13												FY14												FY15											
CS1001120	FMEA Analysis	15	11DEC09	11JAN10	9,892.80	↓ TRESEMER =60 ;																																																																							
CS1001130	Prepare NEPA Form	1	12JAN10	12JAN10	1,319.04	↓ TRESEMER =08 ;																																																																							
CS1001140	Order Material Samples	20	11DEC09	18JAN10	18,995.20	↓ TRESEMER =40 ; M&S =5,000 ;																																																																							
CS1001150	Material Testing	20	19JAN10	15FEB10	14,220.00	↓ TRAVEL =5,000 ;																																																																							
CS1001160	Update Cost & Schedule Estimate	5	16FEB10	22FEB10	4,122.00	↓ TRESEMER =40 ; EM/TB =80 ;																																																																							
CS1001170	Design Drawings	80	16FEB10	08JUN10	56,070.40	↓ TRESEMER =25 ;																																																																							
CS1001180	PDR Prep	10	09JUN10	22JUN10	8,347.40	↓ JARIWALA =640 ;																																																																							
CS1001185	Conduct PDR	1	23JUN10	23JUN10	1,319.04	↓ TRESEMER =40 ; JARIWALA =20 ;																																																																							
CS1001190	Disposition PDR Chits	20	24JUN10	22JUL10	18,447.00	↓ TRESEMER =08 ;																																																																							
CS1001200	Update Analyses	65	23JUL10	22OCT10	23,814.98	↓ TRESEMER =80 ; JARIWALA =60 ;																																																																							
CS1001210	Update Cost & Schedule Estimate	5	25OCT10	29OCT10	3,336.40	↓ TRESEMER =50 ; EA/EM =80 ;																																																																							
CS1001220	Design Drawings	98	25OCT10	21MAR11	176,860.00	↓ TRESEMER =20 ;																																																																							
CS1001230	Prep Procurement Specs	15	22MAR11	11APR11	10,009.20	↓ JARIWALA =2,000 ;																																																																							
CS1001240	FDR Prep	10	12APR11	25APR11	8,087.68	↓ TRESEMER =60 ;																																																																							
CS1001250	CONDUCT FDR	1	26APR11	26APR11	1,334.56	↓ TRESEMER =40 ; JARIWALA =16 ;																																																																							
Procure, Fab & Assembly																																																																													
CS1001280	Prep Requisition and procurement package-Tiles	4	02NOV11*	07NOV11	2,735.84																																																																								
CS1001290	SUBMIT REQ TO PROCUREMENT - Tiles	2	08NOV11	09NOV11	1,367.92																																																																								
CS1001300	Procurement lead time (1) - Tiles	30	10NOV11	23DEC11	0.00																																																																								
CS1001310	AWARD - Tiles	1	03JAN12*	03JAN12	0.00																																																																								
CS1001320	Fabricate or delivery - Tiles	60	04JAN12	27MAR12	858,000.00																																																																								
CS1001330	Machining of tiles for diagnostics	20	28MAR12	24APR12	35,614.40																																																																								
CS1001340	Prep Req & proc pkg- Hardware & Other Material	4	10NOV11*	15NOV11	2,735.84																																																																								
CS1001350	SUBMIT REQ TO PROC - Hardware & Other Material	2	16NOV11	17NOV11	1,367.92																																																																								
CS1001360	Proc lead time (1)- Hardware & Other Material	20	18NOV11	19DEC11	0.00																																																																								
CS1001370	AWARD- Hardware & Other Material	1	20DEC11	20DEC11	0.00																																																																								
CS1001380	Fab or delivery- Hardware & Other Material	30	03AUG12*	14SEP12	198,000.00																																																																								
CS1001390	Fab/Assy Procedure	20	03JAN12	30JAN12	13,679.20																																																																								
CS1001400	Shop Fabrication	20	31JAN12	27FEB12	11,860.80																																																																								
CS1001410	Assembly	20	17SEP12	12OCT12	12,009.00																																																																								
CS1001420	Installation Procedure	25	27APR11	01JUN11	15,013.80																																																																								
CS1001440	Machine Installation	45	15OCT12	18DEC12	46,987.20																																																																								
CS1001450	Tile re-fit and additional machining	20	19DEC12	23JAN13	23,220.00																																																																								
FY091110	FY09 Actual Cost	22*	01JAN09A	30SEP09A	64,576.00	81=64,576 ;																																																																							
Job: 1002 -Passive Plate Analysis &Upgrade-TITUS																																																																													
CS1002010	Check Time Points - Re-run	164	01OCT09*	01JUN10	7,751.20	↓ AVASARALA =40 ;																																																																							
CS1002020	Check Currents With Ron Hatcher Opera	164	01OCT09	01JUN10	7,751.20	↓ AVASARALA =40 ;																																																																							
CS1002030	Mesh Passive Plate Cad Model	164	01OCT09	01JUN10	7,751.20	↓ AVASARALA =40 ;																																																																							
CS1002040	Run rest of disruption cases	164	01OCT09	01JUN10	23,253.60	↓ AVASARALA =120 ;																																																																							
CS1002050	Halo Current Analysis of Passive Plates	164	01OCT09	01JUN10	3,875.60	↓ AVASARALA =20 ;																																																																							
CS1002060	Design Reinforcements	164	01OCT09	01JUN10	7,751.20	↓ AVASARALA =40 ;																																																																							

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10												FY11												FY12												FY13												FY14												FY15											
CS1002070	Analyze/Confirm Reinforcement Design	164	01OCT09	01JUN10	7,751.20	[Gantt bars]												AVASARALA =40 ;																																																											
CS1002080	Propose/Design/Monitor Diagnostic	164	01OCT09	01JUN10	7,751.20	[Gantt bars]												AVASARALA =40 ;																																																											
CS1002090	Lithium Divertor Analysis	164	01OCT09	01JUN10	7,751.20	[Gantt bars]												AVASARALA =40 ;																																																											
CS1002100	Spark or Opera Benchmark	164	01OCT09	01JUN10	7,751.20	[Gantt bars]												BROOKS =40 ;																																																											
CS1002110	Documentation-calculations	164	01OCT09	01JUN10	1,937.80	[Gantt bars]												SIMMONS =10 ;																																																											
CS10022120	Check Time Points - Re-run	200	02JUN10*	22MAR11	7,803.41	[Gantt bars]												AVASARALA =40 ;																																																											
CS10022130	Check Currents With Ron Hatcher Opera	200	02JUN10	22MAR11	7,803.41	[Gantt bars]												AVASARALA =40 ;																																																											
CS10022140	Mesh Passive Plate Cad Model	200	02JUN10	22MAR11	7,803.41	[Gantt bars]												AVASARALA =40 ;																																																											
CS10022150	Run rest of disruption cases	200	02JUN10	22MAR11	23,410.23	[Gantt bars]												AVASARALA =120 ;																																																											
CS10022160	Halo Current Analysis of Passive Plates	200	02JUN10	22MAR11	15,606.82	[Gantt bars]												AVASARALA =80 ;																																																											
CS10022170	Design Reinforcements	200	02JUN10	22MAR11	7,803.41	[Gantt bars]												AVASARALA =40 ;																																																											
CS10022180	Analyze/Confirm Reinforcement Design	200	02JUN10	22MAR11	7,803.41	[Gantt bars]												AVASARALA =40 ;																																																											
CS10022190	Propose/Design/Monitor Diagnostic	200	02JUN10	22MAR11	19,508.53	[Gantt bars]												AVASARALA =100 ;																																																											
CS10022200	Lithium Divertor Analysis	200	02JUN10	22MAR11	11,705.12	[Gantt bars]												AVASARALA =60 ;																																																											
CS10022210	Spark or Opera Benchmark	200	02JUN10	22MAR11	7,803.41	[Gantt bars]												BROOKS =40 ;																																																											
CS10022220	Documentation-calculations	200	02JUN10	22MAR11	0.00	[Gantt bars]												SIMMONS =00 ;																																																											
Job: 1200 - Vacuum Vsl & Struct Support-MANGRA																																																																													
CS1200010	Metrology-to support design activities	42	01OCT09*	01DEC09	101,760.40	[Gantt bars]												MANGRA =100 ; PRINISKI =200 ; MARTINELLI =40 ; EM/TB =100 ; M&S =30,000 ;																																																											
CS1200020	Rapid Prototyping to support dsgn activities Ph1	107	08JAN10*	08JUN10	87,614.24	[Gantt bars]												MANGRA =60 ; PRINISKI =88 ; MARTINELLI =40 ; EM/TB =100 ; M&S =40,000 ;																																																											
CS1200025	Rapid Prototyping to support dsgn activities Ph2	312	09JUN10	06SEP11	16,656.30	[Gantt bars]												MANGRA =40 ; MARTINELLI =100 ;																																																											
FY091210	FY09 Actual Cost	22*	01JAN09A	30SEP09A	571,717.00	[Gantt bars]												31=571,717 ;																																																											
Job: 1201 - Outer TF Structures-MANGRA																																																																													
Design																																																																													
CS1201010	CDR	20	01OCT09*	28OCT09	11,284.00	[Gantt bars]												MANGRA =40 ; MARTINELLI =40 ;																																																											
CS1201020	Complete design of OTF structures	141	03NOV09*	01JUN10	0.00	[Gantt bars]																																																																							
CS1201030	Outer TF Check other PF currents ? Only two curr	141	03NOV09	01JUN10	23,253.60	[Gantt bars]												ZHANG =120 ;																																																											
CS1201040	Tangential radius rods Clevis Shell Intersection	141	03NOV09	01JUN10	7,751.20	[Gantt bars]												TITUS =40 ;																																																											
CS1201050	Tangential radius rods ? interference w/supp CI	141	03NOV09	01JUN10	7,751.20	[Gantt bars]												TITUS =40 ;																																																											
CS1201060	Neutral Beam Vacuum Loads	141	03NOV09	01JUN10	7,751.20	[Gantt bars]												TITUS =40 ;																																																											
CS1201070	Documentation-calculations	141	03NOV09	01JUN10	775.12	[Gantt bars]												SIMMONS =04 ;																																																											
CS1201080	Generate Cad detail and assembly drawings	141	03NOV09	01JUN10	0.00	[Gantt bars]												MANGRA =00 ;																																																											
CS1201090	PDR	141	03NOV09	01JUN10	33,466.60	[Gantt bars]												MANGRA =100 ; MARTINELLI =160 ;																																																											
CS1201100	Complete design of OTF structures	200	02JUN10*	22MAR11	0.00	[Gantt bars]																																																																							
CS1201110	Outer TF Check other PF currents ? Only two curr	200	02JUN10	22MAR11	23,410.23	[Gantt bars]												TITUS =120 ;																																																											
CS1201120	Tangential radius rods Clevis Shell Intersection	200	02JUN10	22MAR11	7,803.41	[Gantt bars]												TITUS =40 ;																																																											
CS1201130	Tangential radius rods ? interference with suppo	200	02JUN10	22MAR11	7,803.41	[Gantt bars]												TITUS =40 ;																																																											
CS1201140	Neutral Beam Vacuum Loads	200	02JUN10	22MAR11	6,639.82	[Gantt bars]												TITUS =40 ;																																																											
CS1201150	Documentation-calculations	200	02JUN10	22MAR11	780.34	[Gantt bars]												SIMMONS =04 ;																																																											
CS1201160	Complete Cad detail and assembly drawings	200	02JUN10	22MAR11	0.00	[Gantt bars]																																																																							
CS1201170	FDR	200	02JUN10	22MAR11	130,115.83	[Gantt bars]												MANGRA =260 ; MARTINELLI =900 ;																																																											

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10												FY11												FY12												FY13												FY14												FY15											
Procure, Fab & Assembly																																																																													
CS1201180	Prep requisition & submit to procurement	1	01OCT12*	01OCT12	1,650.16																																																																								
CS1201190	Bid & award OTF structures	25	02OCT12*	05NOV12	0.00																																																																								
CS1201200	Fabricate components	90	06NOV12	21MAR13	405,750.00	M&S =297,600 ; TRAVEL =3,000																																																																							
CS1201210	Inspect components prior to shipment	5	22MAR13	28MAR13	4,310.16	TRAVEL =2,000 ;MANGRA =08																																																																							
CS1201220		1	01OCT09	01OCT09	0.00																																																																								
Job: 1202 - Outer PF Coil Structures-MANGRA																																																																													
Design																																																																													
CS1202010	CDR	20	01OCT09*	28OCT09	32,590.50	MANGRA =100 ; MARTINELLI =150																																																																							
CS1202020	Analysis- Outer PF supp? include PF3? What loads	141	03NOV09*	01JUN10	31,004.80	TITUS =160 ;																																																																							
CS1202030	Analysis-Local Model Supp Beam/Vessel Intersctn	141	03NOV09	01JUN10	3,875.60	ZHANG =20 ;																																																																							
CS1202040	Analysis- Outer PF supports ? elastomer vs slidi	141	03NOV09	01JUN10	7,751.20	TITUS =40 ;																																																																							
CS1202050	Analysis- PF2 PF1c Umbrella Load Dome Analysis	141	03NOV09	01JUN10	7,751.20	TITUS =40 ;																																																																							
CS1202060	Documentation-calculations	141	03NOV09	01JUN10	775.12	SIMMONS =04 ;																																																																							
CS1202070	Generate Cad detail and assembly drawings	141	03NOV09	01JUN10	0.00																																																																								
CS1202080	Complete design of Outer PF structures	141	03NOV09	01JUN10	0.00																																																																								
CS1202090	PDR Prep	141	03NOV09	01JUN10	94,372.40	MANGRA =260 ; MARTINELLI =500 ;																																																																							
CS1202100	Analysis- Outer PF supp? include PF3? What loads	200	02JUN10*	22MAR11	31,213.64	TITUS =160 ;																																																																							
CS1202110	Analysis- Local Model of Support Beam/Vessel Int	200	02JUN10	22MAR11	3,901.71	TITUS =20 ;																																																																							
CS1202120	Analysis- Outer PF supports ? elastomer vs slidi	200	02JUN10	22MAR11	7,803.41	TITUS =40 ;																																																																							
CS1202130	Analysis- PF2 PF1c Umbrella Load Dome Analysis	200	02JUN10	22MAR11	7,803.41	TITUS =40 ;																																																																							
CS1202140	Documentation-calculations	200	02JUN10	22MAR11	780.34	SIMMONS =04 ;																																																																							
CS1202150	Complete Cad detail and assembly drawings	200	02JUN10	22MAR11	0.00																																																																								
CS1202160	FDR Prep	200	02JUN10	22MAR11	207,981.29	MANGRA =460 ; MARTINELLI =1,340																																																																							
Procure, Fab & Assembly																																																																													
CS1202170	Prep requisition & submit to procurement	1	01OCT12*	01OCT12	1,650.16	MANGRA =08 ;																																																																							
CS1202180	Bid & award outer PF cage	25	02OCT12	05NOV12	0.00																																																																								
CS1202190	Fabricate Outer PF Cage [PF-3/4/5]	90	06NOV12	21MAR13	481,440.48	MANGRA =24 ; M&S =350,000 ; TRAVEL =3,000 ;																																																																							
CS1202200	Prep requisition & submit to procurement	1	02OCT12	02OCT12	1,650.16	MANGRA =08 ;																																																																							
CS1202210	Bid & award outer PF cage	25	03OCT12	06NOV12	0.00																																																																								
CS1202220	Fabricate PF-2/PF-1c support modifications	60	07NOV12	08FEB13	165,010.32	MANGRA =16 ; M&S =118,800 ; TRAVEL =1,000 ;																																																																							
Job: 1203 - Umbrella Structural Reinfor.-MANGRA																																																																													
Design																																																																													
CS1203010	CDR	20	01OCT09*	28OCT09	48,092.90	MANGRA =100 ; MARTINELLI =150 ; ZHANG =80 ;																																																																							
CS1203020	Analysis- Umbrella Arch Reinforcement	141	03NOV09*	01JUN10	0.00																																																																								
CS1203030	Complete design of umbrella structure upgrades	141	03NOV09	01JUN10	11,669.40	MANGRA =60 ;																																																																							
CS1203040	Generate Cad detail and assembly drawings	141	03NOV09	01JUN10	0.00																																																																								
CS1203050	Complete design of upper and lower umbrella lids	141	03NOV09	01JUN10	7,779.60	MANGRA =40 ;																																																																							
CS1203060	PDR	141	03NOV09	01JUN10	29,520.00	MARTINELLI =160 ; ZHANG =80 ;																																																																							
CS1203070	Analysis- Umbrella Arch Reinforcement	200	02JUN10*	22MAR11	0.00																																																																								
CS1203080	Complete design of umbrella structure upgrades	200	02JUN10	22MAR11	19,554.80	MANGRA =100 ;																																																																							
CS1203090	Complete Cad detail and assembly drawings	200	02JUN10	22MAR11	0.00																																																																								

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10												FY11												FY12												FY13												FY14												FY15																																			
						[Gantt bars]												[Gantt bars]												[Gantt bars]												[Gantt bars]												[Gantt bars]												[Gantt bars]																																			
CS1203100	Complete design of upper and lower umbrella lids	200	02JUN10*	22MAR11	15,643.84	[Gantt bar]												MANGRA =80 ;																																																																																			
CS1203110	FDR	200	02JUN10	22MAR11	54,741.13	[Gantt bar]												ZHANG =100 ;												MARTINELLI =400 ;																																																																							
Procure, Fab & Assembly																																																																																																					
CS1203120	Prep requisition & submit to procurement	5	01OCT12*	05OCT12	1,650.16																																					MANGRA =08 ;																																																											
CS1203130	Bid & award PO	25	08OCT12	09NOV12	0.00																																																																																																
CS1203140	Fabricate structural components	40	12NOV12	16JAN13	54,000.00																																					M&S =40,000 ;																																																											
CS1203150	Fabricate umbrella lids	50	17JAN13	27MAR13	30,240.00																																					M&S =22,400 ;																																																											
Job: 1204 - CS Support Pedestal-MANGRA																																																																																																					
Design																																																																																																					
CS1204010	CDR	20	01OCT09*	28OCT09	38,455.80	[Gantt bar]												MANGRA =100 ; ZHANG =80 ;												MARTINELLI =40 ;																																																																							
CS1204020	Engineering design support	141	03NOV09*	01JUN10	23,338.80	[Gantt bar]												MANGRA =120 ;																																																																																			
CS1204030	Generate Cad detail and assembly drawings	141	03NOV09	01JUN10	0.00	[Gantt bar]																																																																																															
CS1204040	PDR Prep	141	03NOV09	01JUN10	7,008.80	[Gantt bar]												MARTINELLI =80 ;																																																																																			
CS1204050	Engineering design support	200	02JUN10*	22MAR11	39,109.60	[Gantt bar]												MANGRA =200 ;																																																																																			
CS1204060	Generate Cad detail and assembly drawings	200	02JUN10	22MAR11	17,616.30	[Gantt bar]												MARTINELLI =200 ;																																																																																			
CS1204070	FDR Prep	200	02JUN10	22MAR11	0.00	[Gantt bar]																																																																																															
Procure, Fab & Assembly																																																																																																					
CS1204080	Prep requisition & submit to procurement	1	03OCT12*	03OCT12	1,650.16																																					MANGRA =08 ;																																																											
CS1204090	Bid & award PO	25	04OCT12	07NOV12	0.00																																																																																																
CS1204100	Fabricate pedestal	40	08NOV12	14JAN13	42,000.80																																					M&S =25,000 ;												MANGRA =40																																															
CS1204110	Engr support during installation	20	21NOV13	18DEC13	42,286.00																																					MANGRA =200 ;																																																											
Job: 1205 - Misc VV Structural Support-MANGRA																																																																																																					
Design																																																																																																					
CS1205010	CDR of Vessel Legs	20	01OCT09*	28OCT09	8,953.70	[Gantt bar]												MANGRA =10 ;												MARTINELLI =80 ;																																																																							
CS1205015	CDR of Plates Upgrade	20	01OCT09*	28OCT09	7,394.20	[Gantt bar]												MANGRA =20 ;												MARTINELLI =40 ;																																																																							
CS1205020	Engineering design support	141	03NOV09*	01JUN10	0.00	[Gantt bar]																																																																																															
CS1205030	Generate Cad detail and assembly drawings	141	03NOV09	01JUN10	7,008.80	[Gantt bar]												MARTINELLI =80 ;																																																																																			
CS1205040	PDR of Vessel Legs	141	03NOV09	01JUN10	10,898.60	[Gantt bar]												MANGRA =20 ;												MARTINELLI =80 ;																																																																							
CS1205050	PDR of Plates Upgrade	141	03NOV09	01JUN10	3,889.80	[Gantt bar]												MANGRA =20 ;																																																																																			
CS1205060	Engineering design support	200	02JUN10*	22MAR11	0.00	[Gantt bar]																																																																																															
CS1205070	Complete Cad detail and assembly drawings	200	02JUN10	22MAR11	0.00	[Gantt bar]																																																																																															
CS1205080	FDR of Vessel Legs	200	02JUN10	22MAR11	27,393.70	[Gantt bar]												MANGRA =50 ;												MARTINELLI =200 ;																																																																							
CS1205090	FDR of Plates Upgrade	200	02JUN10	22MAR11	37,171.10	[Gantt bar]												MANGRA =100 ;												MARTINELLI =200 ;																																																																							
Procure, Fab & Assembly																																																																																																					
CS1205100	Prep requisition & submit to procurement	1	03OCT12*	03OCT12	0.00																																																																																																
CS1205110	Bid & award PO	5	04OCT12	10OCT12	0.00																																																																																																
CS1205120	Fabricate Legs Upgrade	65	11OCT12	21JAN13	67,500.00																																					M&S =50,000 ;																																																											
CS1205130	Fabricate PP Upgrade	65	11OCT12	21JAN13	67,500.00																																					M&S =50,000 ;																																																											
Job: 1301 - Outer TF Coils-CHRZANOWSKI																																																																																																					
Design																																																																																																					
CS1300010	CAD Dsgn Supp Assembly of Dwgs &Space allocation	360	01OCT09*	16MAR11	77,283.35	[Gantt bar]												MORRIS =600 ;																																																																																			
CS13010010	Prepare for CDR	23	01OCT09*	02NOV09	0.00	[Gantt bar]												CHRZANOWSKI =00 ;																																																																																			
CS13010020	Prepare for PDR	141	03NOV09	01JUN10	0.00	[Gantt bar]												CHRZANOWSKI =00 ;																																																																																			

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10												FY11												FY12												FY13												FY14												FY15											
CS13010030	Prepare for FDR	200	02JUN10	22MAR11	0.00													CHRZANOWSKI =00 ;																																																											
CS13010040	Generate engr plan for fabr (2) new OTF Coil	20	23FEB11	22MAR11	32,814.72													CHRZANOWSKI =40 ; PALUZZI =120 ; EE/SB =80 ; MEIGHAN =16 ;																																																											
CS13010041	Ready for FDR	1	23MAR11	23MAR11	0.00																																																																								
Outer TF Fabrication																																																																													
CS13010049	Prep req and award conductor vendor	25	24AUG12*	28SEP12	0.00																																																																								
CS13010050	Procure copper conductor for OTF [10 bars]	40	01OCT12	27NOV12	14,816.80																																					MEIGHAN =08 ; M&S =10,000																																			
CS13010060	Prep requisition for machining & sub to proc OTF	5	24AUG12*	30AUG12	1,284.64																																					MEIGHAN =08 ;																																			
CS13010070	Place order for machining cooling groove in copp	20	31AUG12	28SEP12	0.00																																																																								
CS13010080	Machine conductors	40	28NOV12*	30JAN13	48,414.00																																					OS =30,000 ; TRAVEL =1,000 MEIGHAN =40 ;																																			
CS13010090	Prep req or rolling & sub to proc OTF Conductors	5	24AUG12*	30AUG12	1,284.64																																					MEIGHAN =08 ;																																			
CS13010100	Place order to Form OTF conductors	20	31AUG12	28SEP12	0.00																																																																								
CS13010110	Roll conductors	30	31JAN13	13MAR13	48,414.00																																					MEIGHAN =40 ; OS =30,000 TRAVEL =1,000 ;																																			
CS13010120	Procure aluminum castings and S.S. support clamp	80	01OCT12*	30JAN13	29,633.60																																					M&S =20,000 ; MEIGHAN =16																																			
CS13010130	Procure hardware, epoxy/glass for blocks, misc	80	01OCT12*	30JAN13	30,950.40																																					M&S =20,000 ; MEIGHAN =24																																			
CS13010140	Procure B-stage insulation	80	01OCT12*	30JAN13	28,316.80																																					M&S =20,000 ; MEIGHAN =08																																			
CS13010150	Procure Copper leads & fittings, etc	80	01OCT12*	30JAN13	21,554.00																																					M&S =5,000 ; MEIGHAN =08 ; MACHINES =120 ; TRAVEL =1,000																																			
CS13010160	Modify oven to accommodate OTF molds	35	01OCT12*	16NOV12	159,540.80																																					PALUZZI =120 ; TECH SHOP =240 ; TECH SHOP =320 ; EE/TB =560 ; M&S =20,000 ;																																			
CS13010170	Setup oven and mold fixtures in work area	20	19NOV12	18DEC12	0.00																																																																								
CS13010180	Fabricate OTF Assy	70	14MAR13	19JUN13	189,777.20																																					MEIGHAN =160 ; TECH SHOP =1,280 M&S =7,000 ; STOCKRM =5,000 WELDER =240 ;																																			
CS13010190	Install alum blocks & SS support clamps	25	20JUN13	24JUL13	49,305.60																																					PALUZZI =160 ; TECH SHOP =320																																			
Job: 1303 - TF Joint Test Stand&Test-CHRZANOWSKI																																																																													
CS13030010	Physics Requirements	5	05OCT09*	09OCT09	6,595.20																																																																								
CS13030020	PREPARE WORK PLANNING FORM	5	12OCT09	16OCT09	2,638.08																																																																								
CS13030030	Prep System Description	5	19OCT09	23OCT09	3,957.12																																																																								
CS13030040	Prep System Requirements	5	26OCT09	30OCT09	3,957.12																																																																								
CS13030050	R&D	5	02NOV09	06NOV09	3,957.12																																																																								
CS13030060	CDR	2	09NOV09	10NOV09	2,638.08																																																																								
CS13030070	Prepare NEPA Form	5	11NOV09*	17NOV09	2,638.08																																																																								
CS13030080	Update Cost & Schedule Estimate	5	11NOV09	17NOV09	1,319.04																																																																								
CS13030090	Design Drawings	20	11NOV09	10DEC09	11,728.80																																					KOZUB =40 ; PAUL =40 ;																																			
CS13030100	PDR Prep	10	11DEC09	04JAN10	6,595.20																																					KOZUB =40 ;																																			
CS13030110	CONDUCT PDR	5	18DEC09	04JAN10	1,319.04																																					KOZUB =08 ;																																			
CS13030120	Disposition PDR Chits	5	05JAN10	11JAN10	3,957.12																																					KOZUB =24 ;																																			
CS13030130	Design Drawings	20	12JAN10	08FEB10	12,905.28																																					KOZUB =16 ; PAUL =80 ;																																			
CS13030140	Update Cost & Schedule Estimate	2	12JAN10	13JAN10	1,319.04																																					KOZUB =08 ;																																			
CS13030150	Prep Procurement Specs	3	12JAN10	14JAN10	2,638.08																																					KOZUB =16 ;																																			
CS13030160	FDR Prep	30	15JAN10	25FEB10	6,595.20																																					KOZUB =40 ;																																			
CS13030170	CONDUCT FDR	1	25FEB10	25FEB10	1,319.04																																					KOZUB =08 ;																																			
CS13030180	Fab/Assy Procedure	20	26FEB10	25MAR10	8,874.32																																					KOZUB =24 ; EM/SB =40 ;																																			

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	Fiscal Year										
						FY10	FY11	FY12	FY13	FY14	FY15					
CS13030190	Shop Fabrication	20	26MAR10	22APR10	91,562.48											
CS13030200	Assembly	30	23APR10*	04JUN10	35,712.40											
CS13030210	Machine Installation	30	07JUN10	19JUL10	38,663.60											
CS13030220	PTP Testing	60	20JUL10	12OCT10	64,448.11											
CS13030230	Final Report & Presentation	15	13OCT10	02NOV10	24,599.60											
Job: 1304 - Inner TF Bundle (Ds/Fab)-CHRZANOWSKI																
Design																
CS13040010	CDR	23	01OCT09*	02NOV09	20,636.00											
CS13040020	Preliminary design of TF bundle and components	141	03NOV09	01JUN10	83,712.96											
CS13040030	Gen Detl/assembly Cad drwngs [TF bundle, joint	141	03NOV09	01JUN10	131,864.80											
CS13040040	Analysis of Revised Flag/Flex Geometry	141	03NOV09	01JUN10	9,892.80											
CS13040050	Check Electromagnetic loads assumption of 1 T	141	03NOV09	01JUN10	3,297.60											
CS13040060	Fatigue Calcs for less than .3T Vert Field	141	03NOV09	01JUN10	0.00											
CS13040070	Heat-up if flags are BeCu	141	03NOV09	01JUN10	7,751.20											
CS13040080	TF De-Wedging due to therm stress-dev tension wr	141	03NOV09	01JUN10	7,751.20											
CS13040090	[TS torsional shear stress ? Wooley work. D.R.	141	03NOV09	01JUN10	15,502.40											
CS13040100	Coupled Elect Resist/Thermal Contact Axisymmetri	141	03NOV09	01JUN10	6,595.20											
CS13040110	Coupled Analysis of Large TF Flag Model	141	03NOV09	01JUN10	0.00											
CS13040120	Documentation-calculations	141	03NOV09	01JUN10	1,937.80											
CS13040130	Perform additional Friction Stir Weld Trials	141	03NOV09	01JUN10	24,835.00											
CS13040140	Prepare for PDR	141	03NOV09	01JUN10	19,006.80											
CS13040450	Procure Flex bus samples for testing [2]	75	04JAN10*	16APR10	18,150.00											
CS13040460	Contract f/ friction stir weld samples[CU-CU, Cr	75	04JAN10*	16APR10	36,300.00											
CS13040150	Compl Electromagnetic loads assumption of 1 T ?	200	02JUN10	22MAR11	3,319.91											
CS13040160	Fatigue Calcs for less than .3T Vert Field	200	02JUN10	22MAR11	13,279.64											
CS13040170	Heat-up if flags are BeCu	200	02JUN10	22MAR11	7,803.41											
CS13040180	TF De-Wedging due to thermal stress, dev tension	200	02JUN10	22MAR11	7,803.41											
CS13040190	[TS torsional shear stress ? Wooley work. D.R.	200	02JUN10	22MAR11	15,606.82											
CS13040200	Coupled Elect Resist/Thermal Contact Axisymmetri	200	02JUN10	22MAR11	0.00											
CS13040210	Coupled Analysis of Large TF Flag Model	200	02JUN10	22MAR11	19,919.46											
CS13040220	Documentation-calculations	200	02JUN10	22MAR11	1,950.85											
CS13040230	Compl detail & assembly Cad drwngs[TF bundle,	200	02JUN10	22MAR11	0.00											
CS13040240	Prepare for FDR	200	02JUN10	22MAR11	19,130.08											
CS13040241	Ready for FDR	1	23MAR11	23MAR11	0.00											
TF Conductor																
CS13040250	HOLD TF CONDUCTOR PEER REVw [to allow early proc	0		12APR10*	0.00											
CS13040260	Prep requisition/SOW & submit to proc TF Conduct	5	13APR10*	19APR10	4,650.72											
CS13040270	Bid & Award conductor extrusion order [80 pcs]	25	20APR10	24MAY10	1,550.24											
CS13040280	Manufacture Copper extrusions [80]	90	25MAY10	30SEP10	295,920.48											
CS13040290	Prep requisition TF Conductor machining	6	02JUN10	09JUN10	1,550.24											
CS13040300	Bid & Award conductor machining [40 pcs]	25	26AUG10	30SEP10	1,550.24											

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10												FY11												FY12												FY13												FY14												FY15																																																					
CS13040310	Machine conductors [cooling grooves, lead area]-	65	01OCT10	11JAN11	333,555.20	CHRZANOWSKI =24 ; OS =250,000																																																																																																																	
CS13040320	Prep requisition & submit to proc TF Conductor	6	29NOV10	06DEC10	1,568.40	TRAVEL =5,000 ;																																																																																																																	
CS13040330	Bid & award lead welding [40 pcs]	20	07DEC10	11JAN11	1,568.40	CHRZANOWSKI =08 ;																																																																																																																	
CS13040410	Procure Cu-Cr-Zr lead extensions for welding	65	01OCT10	11JAN11	64,500.00	CHRZANOWSKI =08 ;																																																																																																																	
CS13040340	Friction Stir-Weld coil leads to conductors- 40	45	12JAN11	15MAR11	331,015.20	OS =50,000 ;																																																																																																																	
Flex Bus																																																																																																																							
CS13040350	Prep req & submit t/proc Flex Bus [Inn t/Out TF	5	24AUG12*	30AUG12	1,607.60	CHRZANOWSKI =08 ;																																																																																																																	
CS13040360	Bid & award flex bus order [80 pcs]	20	31AUG12	28SEP12	1,607.60	CHRZANOWSKI =08 ;																																																																																																																	
CS13040370	Fabricate Flex bus	80	01OCT12	30JAN13	95,447.64	OS =65,000 ; TRAVEL =3,000																																																																																																																	
CS13040380	Procure TF jumpers [OTF to flex]	105	01OCT12	06MAR13	54,000.00	CHRZANOWSKI =18 ;																																																																																																																	
CS13040390	Procure supports for TF jumpers	65	01OCT12	09JAN13	33,750.00	OS =40,000 ;																																																																																																																	
CS13040400	Procure lower TF coil to bus jumpers & supports	50	01OCT12	11DEC12	16,200.00	OS =25,000 ;																																																																																																																	
Misc Hardware																																																																																																																							
CS13040420	Procure joint & support hardware	55	01OCT12	18DEC12	136,647.84	OS =12,000 ;																																																																																																																	
CS13040430	Procure Copper spacers for upper leads	65	01OCT12	09JAN13	35,397.84	CHRZANOWSKI =08 ; M&S =100,000																																																																																																																	
CS13040440	Procure upper & lower OH/TF support structures	75	01OCT12	23JAN13	40,500.00	CHRZANOWSKI =08 ; OS =25,000																																																																																																																	
Job: 1305 - OHMIC Heating Coil (OH)-CHRZANOWSKI																																																																																																																							
Design																																																																																																																							
CS13050010	CDR	23	01OCT09*	02NOV09	0.00																																																																																																																		
CS13050020	Design support for OH coil	141	03NOV09	01JUN10	38,756.00	CHRZANOWSKI =200 ;																																																																																																																	
CS13050030	Generate detail and assembly Cad drawings	141	03NOV09	01JUN10	72,113.20	UPCAVAGE =80 ; PAUL =500 ;																																																																																																																	
CS13050040	Complete Axisymmetric CS Model	141	03NOV09	01JUN10	19,378.00	ZOLFAGHARI =100 ;																																																																																																																	
CS13050050	Size Bellevilles, Spacers, Retaining Bolts	141	03NOV09	01JUN10	7,751.20	ZOLFAGHARI =40 ;																																																																																																																	
CS13050060	OH Stress due to PF1A	141	03NOV09	01JUN10	7,751.20	ZOLFAGHARI =40 ;																																																																																																																	
CS13050070	OH Tension Stress Due to End Fixity	141	03NOV09	01JUN10	1,937.80	ZOLFAGHARI =10 ;																																																																																																																	
CS13050080	Fixture Analyses	141	03NOV09	01JUN10	0.00	CHRZANOWSKI =00 ;																																																																																																																	
CS13050090	Documentation-calculations	141	03NOV09	01JUN10	1,937.80	SIMMONS =10 ;																																																																																																																	
CS13050100	Prepare for PDR	141	03NOV09	01JUN10	12,884.80	CHRZANOWSKI =40 ; PAUL =40 ;																																																																																																																	
CS13050110	Complete Design support for OH coil	200	02JUN10	22MAR11	46,820.46	CHRZANOWSKI =240 ;																																																																																																																	
CS13050120	Complete Axisymmetric CS Model	200	02JUN10	22MAR11	19,508.53	ZOLFAGHARI =100 ;																																																																																																																	
CS13050130	Size Bellevilles, Spacers, Retaining Bolts	200	02JUN10	22MAR11	7,803.41	ZOLFAGHARI =40 ;																																																																																																																	
CS13050140	OH Stress due to PF1A	200	02JUN10	22MAR11	7,803.41	ZOLFAGHARI =40 ;																																																																																																																	
CS13050150	OH Tension Stress Due to End Fixity	200	02JUN10	22MAR11	1,950.85	ZOLFAGHARI =10 ;																																																																																																																	
CS13050160	Fixture Analyses	200	02JUN10	22MAR11	7,803.41	EA/EM =40 ;																																																																																																																	
CS13050170	Documentation-calculations	200	02JUN10	22MAR11	1,950.85	SIMMONS =10 ;																																																																																																																	
CS13050180	Complete detail and assembly Cad drawings	200	02JUN10	22MAR11	77,524.95	PAUL =600 ;																																																																																																																	
CS13050190	Prepare for FDR	200	02JUN10	22MAR11	12,971.74	CHRZANOWSKI =40 ; PAUL =40 ;																																																																																																																	
CS13050191	Ready for FDR	1	23MAR11	23MAR11	0.00																																																																																																																		
TF/OH Fabrication																																																																																																																							
CS13050200	Generate SOW for conductor	9	23JUN11*	06JUL11	2,352.60	CHRZANOWSKI =12 ;																																																																																																																	
CS13050210	Prep requisition & submit to procurement	5	07JUL11	13JUL11	1,568.40	CHRZANOWSKI =08 ;																																																																																																																	
CS13050220	Bid & award conductor order [220%]	19	14JUL11	09AUG11	0.00																																																																																																																		

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10										FY11										FY12										FY13										FY14										FY15																			
CS13050230	Manufacture Copper conductor [extrusion]	70	10AUG11	16NOV11	140,891.25																					CHRZANOWSKI =16 ; OS =105,600																																																	
CS13050240	Prep requisition for insulation	5	02JUN11*	08JUN11	1,253.36											MEIGHAN =08 ;																																																											
CS13050250	Procure Kapton/glass co-wound insulation	70	09JUN11	16SEP11	33,503.36											MEIGHAN =08 ;										CHRZANOWSKI =08 ;																																																	
CS13050260	Prep requisition for belleville washers	5	26MAR12*	30MAR12	1,607.60																					CHRZANOWSKI =08 ;																																																	
CS13050270	Deliver belleville washer assembly	60	02APR12	25JUN12	47,807.60																					CHRZANOWSKI =08 ; OS =35,000																																																	
CS13050280	Procure miscellaneous parts	65	15NOV11*	23FEB12	24,622.80																					CHRZANOWSKI =24 ; M&S =15,000																																																	
CS13050290	Generate SOW & Manufacturing SPEC	119*	03OCT11*	27MAR12	24,114.00																					CHRZANOWSKI =120 ;																																																	
CS13050330	Fabricate Inner TF/OH Coil Assembly	300	28MAR12	05JUN13	2,363,908.27											CHRZANOWSKI =600 ; MEIGHAN TRAVEL =0 ; 41=250,000 ; 48=1,722,600										=400																																																	
FY091310	FY09 Actual Cost	22*	01JAN09A	30SEP09A	1,051,480.00	81=1,051,480 ;																																																																					
FY091315	FY09 Actual Cost	22*	01JAN09A	30SEP09A	4,085.00	81=4,085 ;																																																																					
Job: 1306 - Inner PF Coils-CHRZANOWSKI																																																																											
Design																																																																											
CS13060010	CDR	23	01OCT09*	02NOV09	0.00																																																																						
CS13060020	Design PF Coils	141	03NOV09	01JUN10	23,253.60	CHRZANOWSKI =120 ;																																																																					
CS13060030	Generate Cad detail/assembly drwng Inner PF coil	141	03NOV09	01JUN10	30,801.60	MORRIS =240 ;																																																																					
CS13060040	Prepare for PDR	141	03NOV09	01JUN10	5,667.28	CHRZANOWSKI =16 ; MORRIS =20 ;																																																																					
CS13060050	Lorentz Force Stress Analyses	200	02JUN10	22MAR11	11,705.12	ZOLFAGHARI =60 ;																																																																					
CS13060060	Fixture analysis	200	02JUN10	22MAR11	3,901.71	ZOLFAGHARI =20 ;																																																																					
CS13060070	Design activities	200	02JUN10	22MAR11	23,410.23	CHRZANOWSKI =120 ;																																																																					
CS13060080	Complete Cad detail and assembly drawings of Inn	200	02JUN10	22MAR11	38,762.48	MORRIS =300 ;																																																																					
CS13060090	Prepare for FDR	200	02JUN10	22MAR11	5,756.93	CHRZANOWSKI =16 ; MORRIS =24 ;																																																																					
CS13060091	Ready for FDR	1	23MAR11	23MAR11	0.00																																																																						
Inner PF Fabrication																																																																											
CS13060100	Generate SOW for conductor	9	01AUG12*	13AUG12	2,411.40																					CHRZANOWSKI =12 ;																																																	
CS13060110	Prep requisition & submit to procurement	5	14AUG12	20AUG12	1,607.60																					CHRZANOWSKI =08 ;																																																	
CS13060120	Bid & award conductor order [220%]	20	21AUG12	18SEP12	0.00																																																																						
CS13060130	Manufacture Copper conductor [extrusion]	70	19SEP12	04JAN13	60,025.64																					CHRZANOWSKI =16 ; OS =42,500																																																	
CS13060140	Prep req & sub procurement Kapton/glass Insula	5	01AUG12*	07AUG12	1,284.64																					MEIGHAN =08 ;																																																	
CS13060150	Procure Kapton/glass co-wound insulation	70	08AUG12	14NOV12	27,982.66																					MEIGHAN =08 ; M&S =20,000																																																	
CS13060160	Generate SOW & Manufacturing SPEC Inner [6] Inne	16	14AUG12*	05SEP12	6,839.60																					CHRZANOWSKI =40 ;																																																	
CS13060170	Prep req & submit to procurement Inner [6] Inner	5	01AUG12*	07AUG12	1,607.60																					CHRZANOWSKI =08 ;																																																	
CS13060180	Review bids and award contract Inner [6] Inner P	30	08AUG12	19SEP12	0.00																																																																						
CS13060190	Fabricate Inner [6] Inner PF coils	200	07JAN13*	11OCT13	304,340.54																					CHRZANOWSKI =200 ; OS MEIGHAN =120 ;										=180,000																																							
Job: 1307 - CS Casing Assembly -CHRZANOWSKI																																																																											
Design																																																																											
CS13070010	CDR	23	01OCT09*	02NOV09	0.00																																																																						
CS13070020	Design & generate Cad detail and assembly drawin	141	03NOV09	01JUN10	46,253.20	CHRZANOWSKI =40 ; MORRIS =300 ;																																																																					
CS13070030	Create 3D Model of Organ Pipes Leads Coolant Lin	141	03NOV09	01JUN10	6,595.20	WILLARD =40 ;																																																																					
CS13070040	CS Support structure design/analysis	141	03NOV09	01JUN10	3,875.60	MYATT =20 ;																																																																					
CS13070050	Prepare for PDR	141	03NOV09	01JUN10	0.00	CHRZANOWSKI =00 ; MORRIS =00 ;																																																																					
CS13070060	Design & complete Cad detail and assembly drwng	203	02JUN10	25MAR11	69,879.41	CHRZANOWSKI =80 ; MORRIS =420																																																																					

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10												FY11												FY12												FY13												FY14												FY15											
						[Gantt bars]												[Gantt bars]												[Gantt bars]												[Gantt bars]												[Gantt bars]												[Gantt bars]											
CS13070070	3D Model of Organ Pipes Leads Coolant Lines	200	02JUN10	22MAR11	19,919.46	[Gantt bar]												WILLARD =120 ;																																																											
CS13070080	Bellow (EJMA Standards) analysis	200	02JUN10	22MAR11	7,803.41	[Gantt bar]												MYATT =40 ;																																																											
CS13070090	Perform Tile Stod/Shell Stress analysis	200	02JUN10	22MAR11	7,803.41	[Gantt bar]												MYATT =40 ;																																																											
CS13070100	CS Support	200	02JUN10	22MAR11	7,803.41	[Gantt bar]												MYATT =40 ;																																																											
CS13070103	Complete design of ceramic break assembly	200	02JUN10*	22MAR11	15,606.82	[Gantt bar]												CHRZANOWSKI =80 ;																																																											
CS13070106	Complete cad design and details	200	02JUN10*	22MAR11	15,504.99	[Gantt bar]												MORRIS =120 ;																																																											
CS13070110	Prepare for FDR	200	02JUN10	22MAR11	7,002.71	[Gantt bar]												CHRZANOWSKI =20 ; MORRIS =24 ;																																																											
CS13070111	Ready for FDR	1	28MAR11	28MAR11	0.00																																																																								
Casing Fabrication																																																																													
CS13070120	Prepare requisitions and submit to procurement	40	03JAN12*	27FEB12	8,038.00																									CHRZANOWSKI =40 ; M&S =00 ; OS =00 ; TRAVEL =00 ;																																															
CS13070130	Oversee procurement of components	85	28FEB12	26JUN12	9,338.00																									CHRZANOWSKI =40 ; M&S =00 ; OS =00 ; TRAVEL =1,000 ;																																															
CS13070140	Procure Inconel Tube	85	06MAR12	03JUL12	66,000.00																									CHRZANOWSKI =00 ; M&S =50,000 ; OS =00 ; TRAVEL =00 ;																																															
CS13070150	Procure Inconel Bellows	80	28FEB12	19JUN12	46,200.00																									CHRZANOWSKI =00 ; M&S =35,000 ; OS =00 ; TRAVEL =00 ;																																															
CS13070160	Rotatable Flanges	80	28FEB12	19JUN12	22,572.00																									CHRZANOWSKI =00 ; M&S =00 ; OS =17,100 ; TRAVEL =00 ;																																															
CS13070170	Inconel Upper forgings and Rings	85	28FEB12	26JUN12	79,464.00																									CHRZANOWSKI =00 ; M&S =60,200 ; OS =00 ; TRAVEL =00 ;																																															
CS13070180	Inconel flange machining	80	28FEB12	19JUN12	52,800.00																									CHRZANOWSKI =00 ; M&S =40,000 ; OS =00 ; TRAVEL =00 ;																																															
CS13070190	Diagnostic/ Gas Injection feed-thru's	80	28FEB12	19JUN12	13,200.00																									CHRZANOWSKI =00 ; M&S =10,000 ; OS =00 ; TRAVEL =00 ;																																															
CS13070200	CHI copper Leads- upper & lower [For vessel bake	80	28FEB12	19JUN12	21,120.00																									CHRZANOWSKI =00 ; M&S =16,000 ; OS =00 ; TRAVEL =00 ;																																															
CS13070210	Procure Inconel Weld Studs	80	28FEB12	19JUN12	9,240.00																									CHRZANOWSKI =00 ; M&S =7,000 ; OS =00 ; TRAVEL =00 ;																																															
CS13070220	CS casing support legs	80	28FEB12	19JUN12	33,000.00																									CHRZANOWSKI =00 ; M&S =25,000 ; OS =00 ; TRAVEL =00 ;																																															
CS13070240	Miscellaneous M&S	80	28FEB12	19JUN12	6,600.00																									CHRZANOWSKI =00 ; M&S =5,000 ; OS =00 ; TRAVEL =00 ;																																															
CS13070310	Assemble & weld case components [Inconel tubes..	65	05OCT12*	15JAN13	79,693.20																									WELDER =432 ; EM/TB =288 ; M&S =5,000 ; STOCKRM =2,000 ;																																															
CS13070290	Design stud installation fixture	60	04JAN11	28MAR11	11,571.60	[Gantt bar]												TECH SHOP =80 ; MACHINES =40 ;																																																											
CS13070300	Fabricate Fixture for Stud installation	60	29MAR11	21JUN11	12,861.60	[Gantt bar]												TECH SHOP =80 ; MACHINES =40 ; M&S =1,000 ; STOCKRM =1,000 ;																																																											
CS13070230	Procure Weld material	80	28FEB12	19JUN12	6,600.00																									CHRZANOWSKI =00 ; M&S =5,000 ; OS =00 ; TRAVEL =00 ;																																															
CS13070320	Install inconel weld studs	40	16JAN13	12MAR13	24,314.40																									TECH SHOP =240 ; STOCKRM =500 ;																																															
CS13070330	Mount PF1b coil and support to CS casing [top an	20	13MAR13	09APR13	20,262.00																									TECH SHOP =120 ; WELDER =80 ;																																															
Ceramic Breaks																																																																													
CS13070250	Procure Ceramic Rings	70	28FEB12	05JUN12	72,600.00																									CHRZANOWSKI =00 ; M&S =55,000 ; OS =00 ; TRAVEL =00 ;																																															
CS13070260	Procure CHI Shields	60	28FEB12	21MAY12	39,600.00																									CHRZANOWSKI =00 ; M&S =00 ; OS =30,000 ; TRAVEL =00 ;																																															
CS13070270	Fabricate Ceramic break SS structure	70	28FEB12	05JUN12	39,600.00																									OS =30,000 ;																																															
CS13070280	Procure Viton "O" rings	40	28FEB12	23APR12	6,600.00																									CHRZANOWSKI =00 ; M&S =5,000 ; OS =00 ; TRAVEL =00 ;																																															
CS13070340	Assemble & test Ceramics Breaks	60	01OCT12*	02JAN13	17,268.64																									EM/TB =144 ; M&S =1,000 ; TRAVEL =1,000 ;																																															
Job: 1302 - Center Stack Assembly-CHRZANOWSKI																																																																													
Design																																																																													
CS13020010	Prepare for CDR	23	01OCT09*	02NOV09	0.00	[Gantt bar]												CHRZANOWSKI =00 ;																																																											
CS13020020	Prepare for PDR	141	03NOV09	01JUN10	0.00	[Gantt bar]												CHRZANOWSKI =00 ;																																																											
CS13020030	Prepare for FDR	198	02JUN10	18MAR11	0.00	[Gantt bar]												CHRZANOWSKI =00 ;																																																											
CS13020040	Cad support for setup of CS assembly area	65	01OCT10*	11JAN11	20,090.00	[Gantt bar]												PALUZZI =200 ;																																																											

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10						FY11						FY12						FY13						FY14						FY15					
CS13020050	Generate CS Assembly procedure	130	01OCT10*	12APR11	15,684.00							CHRZANOWSKI =80																													
CS13020060	Generate CS Installation procedure	130	21MAR11	21SEP11	15,684.00							CHRZANOWSKI =80																													
Centerstack Assembly																																									
CS13020070	Setup Assembly Area	65	03OCT12*	11JAN13	73,436.00													MEIGHAN =24 ; TECH SHOP =200 ; STOCKRM =2,000 ; TECH SHOP =360 ; M&S =10,000																							
CS13020080	Modify CS Assy. Fixture	65	03OCT12*	11JAN13	42,491.80							M&S =10,000 ; STOCKRM =1,000 ; TECH SHOP =160 ; WELDER =120																													
CS13020090	Assemble Centerstack	120	06JUN13	20NOV13	629,613.14							CHRZANOWSKI =432 ; MEIGHAN =432 ; TECH SHOP =4,320 ; M&S =20,000 ; STOCKRM =10,000																													
CS13020091	NEW CENTERSTACK READY FOR INSTALLATION	0		20NOV13	0.00							CHRZANOWSKI =00 ; MEIGHAN =00 ; TECH SHOP =00 ; M&S =00 ; STOCKRM =00																													
CS13020100	Tear down assembly area	20	21NOV13	18DEC13	49,435.84							MEIGHAN =24 ; TECH SHOP =360 ; TECH SHOP =80																													
Job: 2300 - ECH Analysis-TITUS																																									
2300100	Disruption analysis of Antenna - PDR	142	02NOV09*	01JUN10	58,134.00	ELLIS =150 ; ZHANG =150																																			
2300105	Documentation - PDR	142	02NOV09*	01JUN10	7,751.20	SIMMONS =40																																			
2300110	Disruption Loading of diagnostics - PDR	142	02NOV09*	01JUN10	7,751.20	ZHANG =40																																			
2300200	Disruption analysis of Antenna - FDR	191*	02JUN10	09MAR11	58,511.94	ELLIS =150 ; ZHANG =150																																			
2300205	Documentation - FDR	191*	02JUN10	09MAR11	7,801.59	SIMMONS =40																																			
2300210	Disruption Loading of diagnostics - FDR	191*	02JUN10	09MAR11	15,603.18	ZHANG =80																																			
2300215	Bus Loren tz Forces/Support Stress Analysis- FDR	191*	02JUN10	09MAR11	11,730.67	BRYANT =60																																			
2300220	Analysis of Fixtures - FDR	191*	02JUN10	09MAR11	16,041.80	WILLARD =100																																			
Job: 2420 - 2nd NBI Sources-CROPPER																																									
Design																																									
24200020	PDR Prep PPL	2	17MAY10*	18MAY10	2,596.00	CROPPER =16																																			
24200030	PDR Prep PU	2	19MAY10	20MAY10	2,596.00	CROPPER =16																																			
24200040	PDR Prep DOE	2	21MAY10	24MAY10	2,596.00	CROPPER =16																																			
24200050	CONDUCT PDR	1	25MAY10	25MAY10	1,298.00	CROPPER =08																																			
24200060	FDR Prep PPL	2	17MAR11*	18MAR11	2,626.40	CROPPER =16																																			
24200070	FDR Prep PU	2	21MAR11	22MAR11	2,626.40	CROPPER =16																																			
24200080	FDR Prep DOE	2	23MAR11	24MAR11	2,626.40	CROPPER =16																																			
24200090	CONDUCT FDR	1	25MAR11	25MAR11	1,313.20	CROPPER =08																																			
Procure, Fab & Assembly																																									
24200100	Prep Requisition and procurement package	5	03JUN13*	07JUN13	6,898.40	CROPPER =40																																			
24200110	SUBMIT REQ TO PROCUREMENT	1	10JUN13	10JUN13	1,379.68	CROPPER =08																																			
24200120	Procurement lead time (1)	15	11JUN13	01JUL13	0.00																																				
24200130	AWARD	1	02JUL13	02JUL13	0.00																																				
24200150	Fabricate or delivery	40	03JUL13	27AUG13	89,100.00	M&S =66,000																																			
24200160	Refurbish Source A	80	03JUN13*	20SEP13	302,441.60	CROPPER =160 ; EE/SB =640 ; EE/TB =1,920																																			
24200170	Refurbish Source B	80	23SEP13	10JAN14	309,439.04	CROPPER =160 ; EE/SB =640 ; EE/TB =1,920																																			
24200180	Refurbish Source C	80	13JAN14	02MAY14	310,006.40	CROPPER =160 ; EE/SB =640 ; EE/TB =1,920																																			
24200190	Refurbish Spare	80	05MAY14	22AUG14	310,006.40	CROPPER =160 ; EE/SB =640 ; EE/TB =1,920																																			
24200200	Build Probe tips (10 Long, 20 short)	60	05MAY14	25JUL14	84,572.64	CROPPER =80 ; EE/SB =24 ; ENI/SB =480 ; M&S =2,000																																			

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10										FY11										FY12										FY13										FY14										FY15									
Job: 2425 - BL Relocation-DENAULT																																																																	
Design																																																																	
24250050	Analysis	18	01OCT09	26OCT09	48,667.20	DENAULT =160 ; EAA/EM =80 ; EE/EM =40 ;																																																											
24250060	CDR	2	27OCT09	28OCT09	2,638.08	DENAULT =16 ;																																																											
24250070	Thermal Analysis	5	03NOV09*	09NOV09	14,007.60	DENAULT =40 ; EAA/EM =40 ;																																																											
24250080	Seismic Analysis	10	10NOV09	23NOV09	28,015.20	DENAULT =80 ; EAA/EM =80 ;																																																											
24250090	FMEA Analysis	10	24NOV09	09DEC09	28,015.20	DENAULT =80 ; EAA/EM =80 ;																																																											
24250100	Prepare NEPA Form	2	10DEC09	11DEC09	2,638.08	DENAULT =16 ;																																																											
24250110	Update Cost & Schedule Estimate	10	14DEC09	05JAN10	13,190.40	DENAULT =80 ;																																																											
24250120	Design Drawings	107	06JAN10	04JUN10	42,131.20	DENAULT =80 ; MITCHELL =160 ; EE/EM =80 ;																																																											
24250130	PDR Prep	5	07JUN10	11JUN10	6,595.20	DENAULT =40 ;																																																											
24250140	CONDUCT PDR	2	14JUN10	15JUN10	2,638.08	DENAULT =16 ;																																																											
24250150	Layman Review	5	16JUN10	22JUN10	6,595.20	DENAULT =40 ;																																																											
24250160	Disposition PDR Chits	2	23JUN10*	24JUN10	2,638.08	DENAULT =16 ;																																																											
24250170	Design Drawings	49	25JUN10	02SEP10	17,768.00	DENAULT =20 ; MITCHELL =80 ; EE/EM =40 ;																																																											
24250180	Update Analyses	35	03SEP10	22OCT10	21,455.47	DENAULT =40 ; EAA/EM =80 ;																																																											
24250190	Update Cost & Schedule Estimate	35	25OCT10	14DEC10	6,672.80	DENAULT =40 ;																																																											
24250200	Prep Procurement Specs	40	15DEC10	16FEB11	6,672.80	DENAULT =40 ;																																																											
24250210	FDR Prep	25	17FEB11	23MAR11	6,672.80	DENAULT =40 ;																																																											
24250220	CONDUCT FDR	2	24MAR11	25MAR11	2,669.12	DENAULT =16 ;																																																											
Procure, Fab & Assembly																																																																	
24250230	Prep Requisition and procurement pkg - Steel an	1	02NOV11*	02NOV11	0.00																																																												
24250240	SUBMIT REQ TO PROCUREMENT - Steel and Parts	1	03NOV11	03NOV11	0.00																																																												
24250250	Procurement lead time (1) - Steel and Parts	30	04NOV11	19DEC11	0.00																																																												
24250260	AWARD - Steel and Parts	1	20DEC11	20DEC11	0.00																																																												
24250270	Fabricate or delivery - Steel and Parts	30	21DEC11	08FEB12	0.00																																																												
24250280	Prep Requisition and procurement pkg - Lifting	2	09FEB12	10FEB12	0.00																																																												
24250290	SUBMIT REQ TO PROCUREMENT - Lifting Equipment	1	13FEB12	13FEB12	0.00																																																												
24250300	Procurement lead time (1) - Lifting Equipment	30	14FEB12	26MAR12	0.00																																																												
24250310	AWARD - Lifting Equipment	1	27MAR12	27MAR12	0.00																																																												
24250320	Fabricate or delivery - Lifting Equipment	30	28MAR12	08MAY12	0.00																																																												
Installation																																																																	
24250330	Engineering 1 Days Per Week title III	762	28MAR11*	27MAR14	108,906.89	DENAULT =44																																																											
24250340	Engineering Support .Days Per Weektitle III	762	28MAR11*	27MAR14	38,783.00	DENAULT =224																																																											
24250350	Drafting Support .5 day/week title III	762	28MAR11*	27MAR14	34,814.59	EC/EM =224																																																											
24250360	Road - Path	5	23APR13*	29APR13	27,491.20	EM/SM =40 ; EM/SB =160																																																											
24250370	Duct Removal - Path	2	30APR13	01MAY13	10,996.48	EM/SM =16 ; EM/SB =64																																																											
24250380	Lintel Removal - Path	3	02MAY13	06MAY13	17,896.80	DENAULT =08 ; EM/SM =24 ; EM/SB =96 ; EE/TB =16																																																											
24250390	Lintel Install - Path	2	02JAN14	03JAN14	14,308.16	DENAULT =08 ; EM/SM =16 ; EM/SB =64 ; EE/TB =16																																																											
24250400	Duct Install - Path	2	06JAN14	07JAN14	32,120.88	EM/SM =16 ; EM/SB =64 ; M&S =15,000																																																											
24250410	Setup - Metrology	5	01OCT10*	07OCT10	23,295.20	DENAULT =80 ; EM/SB =80																																																											
24250420	Measure - Metrology	15	08OCT10	28OCT10	69,885.60	DENAULT =240 ; EM/SB =240																																																											

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10												FY11												FY12												FY13												FY14												FY15											
24250430	Model - Metrology	5	29OCT10	04NOV10	23,733.60																																																																								
24250440	Lay out - Metrology	5	05NOV10	11NOV10	27,165.20																																																																								
24250450	Labyrinth Removal	10	12APR13*	25APR13	50,697.44																																																																								
24250460	Construction - Lift Fixtures	20	03OCT11*	28OCT11	61,190.40																																																																								
24250470	Load Test - Lift Fixtures	5	31OCT11	04NOV11	28,560.40																																																																								
24250480	Move - Lift Fixtures	1	07NOV11	07NOV11	3,059.52																																																																								
24250490	Trial Runs - Lift Fixtures	5	08NOV11	14NOV11	48,360.40																																																																								
Relocate Beamline																																																																													
24250500	Lift onto Rollers - Box Movements	1	01NOV13*	01NOV13	35,083.60																																																																								
24250510	Move IN - Box Movements	1	04NOV13	04NOV13	9,215.44																																																																								
24250520	Over Wall - Box Movements	1	05NOV13	05NOV13	9,215.44																																																																								
24250530	Placement - Box Movements	10	06NOV13	19NOV13	92,154.40																																																																								
24250540	Metrology - Box Movements	10	20NOV13	03DEC13	52,076.80																																																																								
24250550	Off - Source Platform	1	04DEC13*	04DEC13	4,564.00																																																																								
24250560	Move - Source Platform	1	05DEC13	05DEC13	3,492.56																																																																								
24250570	Lift - Source Platform	1	06DEC13	06DEC13	5,635.44																																																																								
24250580	On - Source Platform	1	09DEC13	09DEC13	5,635.44																																																																								
24250590	Metrology - Source Platform	10	10DEC13	23DEC13	86,486.80																																																																								
24250600	Stabilize - Lid Movement	3	24DEC13	26DEC13	24,432.00																																																																								
24250610	Lift onto Rollers - Lid Movement	1	27DEC13	27DEC13	9,215.44																																																																								
24250620	Move IN - Lid Movement	1	30DEC13	30DEC13	9,215.44																																																																								
24250630	Over Wall - Lid Movement	1	31DEC13	31DEC13	9,215.44																																																																								
24250640	Placement - Lid Movement	1	01JAN14	01JAN14	4,929.68																																																																								
24250650	Metrology - Lid Movement	1	02JAN14	02JAN14	17,602.56																																																																								
24250660	90in Flange - Component Movement	2	03JAN14	06JAN14	11,270.88																																																																								
24250670	Magnet - Component Movement	2	07JAN14	08JAN14	12,708.00																																																																								
24250680	Ion Dump - Component Movement	2	09JAN14	10JAN14	12,708.00																																																																								
24250690	Exit Spool - Component Movement	2	13JAN14	14JAN14	11,270.88																																																																								
24250700	TIV - Component Movement	2	15JAN14	16JAN14	11,270.88																																																																								
24250710	Calorimeter - Component Movement	2	17JAN14	20JAN14	15,488.00																																																																								
24250720	Move 1 - Source Movement	2	24DEC13	25DEC13	11,270.88																																																																								
24250730	Align 1 - Source Movement	4	26DEC13	31DEC13	34,038.72																																																																								
24250740	Move 2 - Source Movement	2	01JAN14	02JAN14	11,270.88																																																																								
24250750	Align 2 - Source Movement	4	03JAN14	08JAN14	34,038.72																																																																								
24250760	Move 3 - Source Movement	2	09JAN14	10JAN14	11,270.88																																																																								
24250770	Align 3 - Source Movement	4	13JAN14	16JAN14	34,038.72																																																																								
24250780	Move - HVE 1 Movement	2	17JAN14*	20JAN14	12,708.00																																																																								
24250790	Disassemble - HVE 1 Movement	2	21JAN14	22JAN14	11,270.88																																																																								

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10												FY11												FY12												FY13												FY14												FY15													
24250800	Move to Crain Access - HVE 1 Movement	2	23JAN14	24JAN14	11,270.88																																					EM//SM =16 ; EM//SB =64																																					
24250810	Lift into TFTR - HVE 1 Movement	1	27JAN14	27JAN14	5,635.44																																					EM//SM =08 ; EM//SB =32																																					
24250820	Move In - HVE 1 Movement	1	28JAN14	28JAN14	5,635.44																																					EM//SM =08 ; EM//SB =32																																					
24250830	Over Wall - HVE 1 Movement	2	29JAN14	30JAN14	13,413.76																																					EM//SM =16 ; EM//SB =80																																					
24250840	Reassemble - HVE 1 Movement	2	31JAN14	03FEB14	11,270.88																																					EM//SM =16 ; EM//SB =64																																					
24250850	Placement - HVE 1 Movement	3	04FEB14	06FEB14	18,296.32																																					EM//SM =24 ; EM//SB =96 M&S =1,000																																					
24250860	Move - HVE 2 Movement	2	07FEB14	10FEB14	12,708.00																																					DENAULT EM//SM =08 ; EM//SM =16 EM//SB =64																																					
24250870	Disassemble - HVE 2 Movement	2	11FEB14	12FEB14	11,270.88																																					EM//SM =16 ; EM//SB =64																																					
24250880	Move to Crain Access - HVE 2 Movement	2	13FEB14	14FEB14	11,270.88																																					EM//SM =16 ; EM//SB =64																																					
24250890	Lift into TFTR - HVE 2 Movement	1	17FEB14	17FEB14	5,635.44																																					EM//SM =08 ; EM//SB =32																																					
24250900	Move In - HVE 2 Movement	1	18FEB14	18FEB14	5,635.44																																					EM//SM =08 ; EM//SB =32																																					
24250910	Over Wall - HVE 2 Movement	2	19FEB14	20FEB14	13,413.76																																					EM//SM =16 ; EM//SB =80																																					
24250920	Reassemble - HVE 2 Movement	2	21FEB14	24FEB14	11,270.88																																					EM//SM =16 ; EM//SB =64																																					
24250930	Placement - HVE 2 Movement	3	25FEB14	27FEB14	18,296.32																																					EM//SM =24 ; EM//SB =96 M&S =1,000																																					
24250940	Move - HVE 3 Movement	2	28FEB14	03MAR14	12,708.00																																					DENAULT EM//SM =08 ; EM//SM =16 EM//SB =64																																					
24250950	Disassemble - HVE 3 Movement	2	04MAR14	05MAR14	11,270.88																																					EM//SM =16 ; EM//SB =64																																					
24250960	Move to Crain Access - HVE 3 Movement	2	06MAR14	07MAR14	11,270.88																																					EM//SM =16 ; EM//SB =64																																					
24250970	Lift into TFTR - HVE 3 Movement	1	10MAR14	10MAR14	5,635.44																																					EM//SM =08 ; EM//SB =32																																					
24250980	Move In - HVE 3 Movement	1	11MAR14	11MAR14	5,635.44																																					EM//SM =08 ; EM//SB =32																																					
24250990	Over Wall - HVE 3 Movement	2	12MAR14	13MAR14	13,413.76																																					EM//SM =16 ; EM//SB =80																																					
24251000	Reassemble - HVE 3 Movement	2	14MAR14	17MAR14	11,270.88																																					EM//SM =16 ; EM//SB =64																																					
24251010	Placement - HVE 3 Movement	3	18MAR14	20MAR14	18,296.32																																					EM//SM =24 ; EM//SB =96 M&S =1,000																																					
FY092425	FY09 Actual Cost	22*	01JAN09A	30SEP09A	15,023.00	81=15,023 ;																																																																									
Job: 2430 - 2nd NBI Decontamination-STEVENSON																																																																															
24300230	Decon Calorimeter	30	01OCT09*	11NOV09	149,088.00																																					EE//SM =240 ; EE//TB =1,200																																					
24300240	Decon Ion Pump	30	01DEC09	20JAN10	149,088.00																																					EE//SM =240 ; EE//TB =1,200																																					
24300260	Decon Bending Magnet	30	04JAN10	12FEB10	149,088.00																																					EE//SM =240 ; EE//TB =1,200																																					
24300280	Decon 90 inch flange & neutralizer	30	15FEB10	26MAR10	149,088.00																																					EE//SM =240 ; EE//TB =1,200																																					
24300300	Decon Exit Spool Piece	20	29MAR10	23APR10	99,392.00																																					EE//SM =160 ; EE//TB =800 ;																																					
24300310	Decon BL Lid	45	15APR10	17JUN10	223,632.00																																					EE//SM =360 ; EE//TB =1,800																																					
24300370	Decon BL Box	45	10JUN10	12AUG10	223,632.00																																					EE//SM =360 ; EE//TB =1,800																																					
24300380	Decon BL exterior & accoutrements	15	01SEP10	22SEP10	74,544.00																																					EE//SM =120 ; EE//TB =600 ;																																					
24300390	Decon Program Evaluation/Operation Impact Report	10	09SEP10	22SEP10	39,571.20																																					EM//EM =240 ;																																					
24300400	Decon Procurement Support - Material & Supplies	243	01OCT09	22SEP10	346,060.00	81=1,238,513 ;																																				M&S =160,000 ; 43=126,000 ;																																					
FY092430	FY09 Actual Cost	22*	01JAN09A	30SEP09A	1,238,513.00	81=1,238,513 ;																																																																									
Job: 2440 - 2nd NBI Beamline-DENAULT																																																																															
Procure, Fab & Assembly																																																																															
24400060	Begin refurbishment job parts list	60	01OCT10*	04JAN11	6,566.00																																					EDWARDS =40 ;																																					
24400070	Prepare drawings	755	01OCT10*	03OCT13	43,531.40																																					MITCHELL =480 ;																																					
24400080	Engineering Supervision	751	01OCT10*	27SEP13	164,193.27																																					DENAULT =960 ;																																					

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10												FY11												FY12												FY13												FY14												FY15																							
24400090	Calorimeter parts	20	03JAN11*	28JAN11	32,147.60													EM/TB =320 ; M&S =1,000																																																																							
24400100	Ion Dump parts	40	31JAN11	25MAR11	63,005.20													EM/TB =640 ; M&S =1,000																																																																							
24400110	Magnet parts	20	28MAR11	22APR11	31,502.60													EM/TB =320 ; M&S =500 ;																																																																							
24400120	90 inch flange and neutralizer parts	40	25APR11	20JUN11	71,003.20													EM/TB =640 ; M&S =7,200																																																																							
24400130	Exit spool piece parts	20	21JUN11	19JUL11	50,207.60													EM/TB =320 ; M&S =15,000																																																																							
24400140	BL Lid parts	20	20JUL11	16AUG11	32,405.60													EM/TB =320 ; M&S =1,200																																																																							
24400150	BL Box parts	20	17AUG11	14SEP11	36,017.60													EM/TB =320 ; M&S =4,000																																																																							
24400160	Calorimeter TC wiring	20	15SEP11	12OCT11	43,610.72													EM/TB =160 ; EE/TB =160 ; M&S =10,000																																																																							
24400170	Ion Dump TC wiring	20	13OCT11	09NOV11	37,644.80													EM/TB =160 ; EE/TB =160 ; M&S =5,000																																																																							
24400180	Magnet TC wiring	20	10NOV11	09DEC11	33,684.80													EM/TB =160 ; EE/TB =160 ; M&S =2,000																																																																							
24400190	90 inch flange and neutralizer TC wiring	20	12DEC11	16JAN12	33,684.80													EM/TB =160 ; EE/TB =160 ; M&S =2,000																																																																							
24400200	Exit spool piece TC wiring	20	17JAN12	13FEB12	33,684.80													EM/TB =160 ; EE/TB =160 ; M&S =2,000																																																																							
24400205	Radiation Supplies (M&S)	300	01JUN12*	08AUG13	335,400.00																									M&S =250,000 ;																																																											
24400210	Refurbish BL Box	50	01JUN12*	10AUG12	89,163.20													EE/SM =160 ; EE/TB =640 ; M&S =1,000																																																																							
24400220	Refurbish BL Lid	50	13AUG12	22OCT12	92,534.46													EE/SM =160 ; EE/TB =640 ; M&S =3,000																																																																							
24400230	Refurbish 90 inch flange and neutralizer	50	23OCT12	10JAN13	182,776.80													EE/SM =320 ; EE/TB =1,280 ; M&S =2,000																																																																							
24400240	Refurbish Bending Magnet	30	11JAN13	21FEB13	91,388.40													EE/SM =160 ; EE/TB =640 ; M&S =1,000																																																																							
24400250	Refurbish spool piece	20	22FEB13	21MAR13	182,776.80													EE/SM =320 ; EE/TB =1,280 ; M&S =2,000																																																																							
24400260	Refurbish Ion Dump	50	22MAR13	30MAY13	271,465.20													EE/SM =480 ; EE/TB =1,920 ; M&S =1,000																																																																							
24400270	Refurbish Calorimeter	50	31MAY13	08AUG13	282,380.40													EM/EM =160 ; EE/SM =320 ; EE/TB =1,280 ; EM/TB =200 ; M&S =40,000																																																																							
24400280	Reassembly & Test	60	09AUG13	31OCT13	272,705.92													EE/SM =480 ; EE/TB =1,920																																																																							
FY092440	FY09 Actual Cost	22*	01JAN09A	30SEP09A	28,566.00	81=28,566 ;																																																																																			
Job: 2450 - 2nd NBI Services-DENAULT																																																																																									
Design																																																																																									
245000100	PREPARE WORK PLANNING FORM	1	01OCT09*	01OCT09	1,319.04	DENAULT =08 ;																																																																																			
245000110	Prep System Description	2	02OCT09	05OCT09	2,638.08	DENAULT =16 ;																																																																																			
245000120	Prep System Requirements	3	06OCT09	08OCT09	3,957.12	DENAULT =24 ;																																																																																			
245000130	R&D	5	09OCT09	15OCT09	13,190.40	DENAULT =80 ;																																																																																			
245000140	Analysis	8	16OCT09	27OCT09	56,128.80	DENAULT =160 ; EAA/EM =80 ; EE/EM =80 ;																																																																																			
245000150	CDR	2	28OCT09	29OCT09	2,638.08	DENAULT =16 ;																																																																																			
245000160	Thermal Analysis	10	03NOV09*	16NOV09	20,602.80	DENAULT =80 ; EAA/EM =40 ;																																																																																			
245000170	Seismic Analysis	10	17NOV09	02DEC09	20,602.80	DENAULT =80 ; EAA/EM =40 ;																																																																																			
245000180	FMEA Analysis	10	03DEC09	16DEC09	14,007.60	DENAULT =40 ; EAA/EM =40 ;																																																																																			
245000190	Prepare NEPA Form	2	17DEC09	18DEC09	2,638.08	DENAULT =16 ;																																																																																			
245000200	Update Cost & Schedule Estimate	10	21DEC09	12JAN10	13,190.40	DENAULT =80 ;																																																																																			
245000210	Design Drawings	90	13JAN10	18MAY10	111,470.40	DENAULT =240 ; MITCHELL =480 ; EE/EM =160 ;																																																																																			
245000220	PDR Prep	10	19MAY10	02JUN10	13,190.40	DENAULT =80 ;																																																																																			
245000230	CONDUCT PDR	2	03JUN10	04JUN10	2,638.08	DENAULT =16 ;																																																																																			

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10												FY11												FY12												FY13												FY14												FY15												
245000240	Layman Review		5	07JUN10	11JUN10	6,595.20													DENAULT =40 ;																																																											
245000250	Disposition PDR Chits		2	14JUN10*	15JUN10	2,638.08													DENAULT =16 ;																																																											
245000260	Design Drawings		155	16JUN10	01FEB11	25,373.92													DENAULT =20 ; MITCHELL =80 ; EE/EM =80 ;																																																											
245000270	Update Analyses		5	02FEB11	08FEB11	21,497.60													DENAULT =40 ; EAA/EM =80 ;																																																											
245000280	Update Cost & Schedule Estimate		10	09FEB11	22FEB11	13,345.60													DENAULT =80 ;																																																											
245000290	Prep Procurement Specs		10	23FEB11	08MAR11	13,345.60													DENAULT =80 ;																																																											
245000300	FDR Prep		10	09MAR11	22MAR11	13,345.60													DENAULT =80 ;																																																											
245000310	CONDUCT FDR		2	23MAR11	24MAR11	2,669.12													DENAULT =16 ;																																																											
Procure, Fab & Assembly																																																																														
245000320	Prep Requisition & procurement pkg - Cyro parts		1	02NOV11*	02NOV11	0.00																																																																								
245000330	SUBMIT REQ TO PROCUREMENT - Cyro parts		1	03NOV11	03NOV11	0.00																																																																								
245000340	Procurement lead time (1) - Cyro parts		30	04NOV11	19DEC11	0.00																																																																								
245000350	AWARD - Cyro parts		1	20DEC11	20DEC11	0.00																																																																								
245000360	Fabricate or delivery - Cyro parts		90	21DEC11	02MAY12	0.00																																																																								
245000370	Prep Requisitn & procuremnt pkg - Pipe & misc.		2	02NOV11	03NOV11	0.00																																																																								
245000380	SUBMIT REQ TO PROCUREMENT - Pipe & misc.		1	04NOV11	04NOV11	0.00																																																																								
245000390	Procurement lead time (1) - Pipe & misc.		30	07NOV11	20DEC11	0.00																																																																								
245000400	AWARD - Pipe & misc.		1	21DEC11	21DEC11	0.00																																																																								
245000410	Fabricate or delivery - Pipe & misc.		30	22DEC11	09FEB12	0.00																																																																								
245000420	Engineering for 2nd NBI Services		611	03OCT11*	28FEB14	434,098.67	DENAULT =2,400 ; EE/EM =80																																																																							
245000430	Engineering Support for 2nd NBI Services		611	03OCT11*	28FEB14	107,592.80																																																																								
245000440	Drafting Support for 2nd NBI Services		611	03OCT11*	28FEB14	108,537.01																																																																								
245000450	Helium Transfer Lines		160	03OCT12*	24MAY13	464,977.60													EA/SB =800																																																											
245000460	Nitrogen Transfer Lines		120	15NOV12*	13MAY13	203,427.70													EM/SB =3,200 ; EE/TB =480																																																											
245000470	SF6 Transfer Lines		30	02APR13*	13MAY13	93,466.81													EM/SB =1,400 ; EE/TB =210																																																											
245000480	HVE Water Lines		65	15NOV12*	25FEB13	323,897.15													EM/SB =550 ; M&S =10,000 EE/TB =83																																																											
245000490	Ion Dump Water Lines		175	02JUL12*	15MAR13	598,474.88													EM/SB =2,900 ; M&S =135,000 EE/TB =435																																																											
245000500	Ion Source Water Lines		130	04SEP12*	14MAR13	425,158.28													EM/SB =550 ; M&S =10,000 EE/TB =83																																																											
245000510	Vacuum Lines		30	01MAY13*	11JUN13	198,276.27													EM/SB =575 ; M&S =85,000 EE/TB =86																																																											
245000520	Stack 8 Vacuum Lines		30	03OCT12*	13NOV12	125,622.20													EM/SB =400 ; M&S =50,000 EE/TB =60																																																											
245000530	Gas System		23	03OCT12*	02NOV12	74,715.17													EM/SB =375 ; M&S =15,000 EE/TB =56																																																											
245000540	Legs		12	03OCT12	18OCT12	42,561.10													EM/SB =200 ; M&S =10,000 EE/TB =30																																																											
FY092450	FY09 Actual Cost		22*	01JAN09A	30SEP09A	76,722.00	81=76,722 ;																																																																							
Job: 2460 - 2nd NBI Armor-PRINISKI																																																																														
24600100	Armor Layout		2	01OCT09*	02OCT09	2,019.92	PRINISKI =08 ; WINKELMAN =08 ;																																																																							
24600110	Thermal Annalysis of Second Beam		5	05OCT09	09OCT09	6,595.20	TRESSEMER =40 ;																																																																							
24600160	PPPL CDR		1	12OCT09	12OCT09	0.00																																																																								
24600170	Prep for PU CDR		5	13OCT09	19OCT09	10,099.60	WINKELMAN =40 ; PRINISKI =40 ;																																																																							
24600180	Prep for DOE CDR		8	20OCT09	29OCT09	4,039.84	WINKELMAN =16 ; PRINISKI =16 ;																																																																							

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10										FY11										FY12										FY13										FY14										FY15									
24600220	CDR Chit Resolution - Preliminary Design	30	03NOV09*	16DEC09	11,974.76	PRINISKI =62 ; WINKELMAN =20 ;																																																											
24600240	FMEA Analysis - Preliminary Design	10	17DEC09	08JAN10	13,803.30	PRINISKI =50 ; EAA/EM =30 ;																																																											
24600250	Prepare NEPA Form - Preliminary Design	1	17DEC09	17DEC09	329.76	PRINISKI =02 ;																																																											
24600260	Update Cost & Sched Estimate - Prelim Dsgn	5	17DEC09	23DEC09	3,957.12	PRINISKI =24 ;																																																											
24600270	Design Drawings - Preliminary Design	75	17DEC09	09APR10	33,803.20	PRINISKI =120 ; WINKELMAN =160 ;																																																											
24600280	PDR Prep - NBI Armor	40	12APR10	07JUN10	9,223.50	PRINISKI =40 ; WINKELMAN =30 ;																																																											
24600290	CONDUCT PDR - NBI Armor	1	08JUN10	08JUN10	1,319.04	PRINISKI =08 ;																																																											
24600300	Disposition PDR Chits - Final Design	20	09JUN10*	07JUL10	11,294.56	PRINISKI =60 ; WINKELMAN =16 ;																																																											
24600310	Design Drawings - Final Design	140	08JUL10	01FEB11	18,767.17	PRINISKI =60 ; WINKELMAN =100 ;																																																											
24600320	Update Cost & Sched Estimate - Final Dsgn	3	02FEB11	04FEB11	2,669.12	PRINISKI =16 ;																																																											
24600330	Prep Procurement Specs - Final Design	20	07FEB11	04MAR11	6,672.80	PRINISKI =40 ;																																																											
24600340	FDR Prep - NBI Armor	10	07MAR11	18MAR11	5,535.18	PRINISKI =30 ; WINKELMAN =06 ;																																																											
24600350	CONDUCT FDR - NBI Armor	1	21MAR11	21MAR11	1,334.56	PRINISKI =08 ;																																																											
24600360	Preliminary Design Review Complete - NBI Armor	0		08JUN10*	0.00																																																												
24600370	Final Design Review Complete - NBI Armor	0		21MAR11	0.00																																																												
24600400	Prep Requisition & Procurement Pckg - Armor Tiles	5	04OCT12*	10OCT12	3,505.20																																																												
24600410	Submit Request to Procurement - Armor Tiles	1	11OCT12	11OCT12	701.04																																																												
24600420	Procurement Lead Times - Armor Tiles	25	12OCT12	15NOV12	0.00																																																												
24600430	Award - Armor Tiles	1	16NOV12	16NOV12	0.00																																																												
24600440	Fabricate / Delivery - Armor Tiles	60	16NOV12	19FEB13	47,250.00																																																												
24600450	Prep Req & Proc Pckg - Armor Support	2	16NOV12	19NOV12	1,402.08																																																												
24600460	Submit Request t/Proc - Armor Support	1	20NOV12	20NOV12	701.04																																																												
24600470	Procurement Lead Time - Armor Support	25	21NOV12	04JAN13	0.00																																																												
24600480	Award - Armor Support	1	07JAN13	07JAN13	0.00																																																												
24600490	Fabricate / Delivery - Armor Support	30	07JAN13	15FEB13	67,500.00																																																												
24600495	Procurement / Fabrication / Assembly Complete	0		15FEB13*	0.00																																																												
24600500	Removal Procedure - NBI Armor	20	03OCT12*	30OCT12	12,268.20																																																												
24600510	InVessel Work Remvse Armor/Remv & Save Bay H Port	30	20FEB13*	02APR13	27,272.40																																																												
24600600	Installation Procedure - NBI Armor	20	03OCT12*	30OCT12	15,773.40																																																												
24600610	Refurbishment of NBI Armor	60	03APR13	25JUN13	47,926.24																																																												
24600620	Machine Installation NBI Supp/Armor/Port Cover	30	26JUN13*	06AUG13	5,703.00																																																												
24600630	PTP Testing - NBI Armor	3	07AUG13*	09AUG13	0.00																																																												
FY092460	FY09 Actual Cost	22*	01JAN09A	30SEP09A	35,786.00	81=35,786 ;																																																											
Job: 2470 - 2nd NBI Power-RAKI																																																																	
21-AC Aux.																																																																	
247000245	211-AC Auxiliaries PP's etc	181	11OCT12*	02JUL13	172,366.80																																																												
247000250	212 grounding	181	11OCT12*	02JUL13	108,206.80																																																												
22-Reactivation																																																																	
247000255	Switchyard- Reactivation	130	01APR11*	04OCT11	67,010.93																																																												

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10												FY11												FY12												FY13												FY14												FY15																							
247000256	Surge Room- Reactivation	130	01APR11*	04OCT11	80,850.37																									EE//EM =48 ; EE//SB =08 ; EE//SM =160 ; EE//TB =312 ; 41=12,000 ;																																																											
247000257	Mod- reg- Reactivation	130	01APR11*	04OCT11	45,848.87																									EE//EM =48 ; EE//SB =08 ; EE//SM =80 ; EE//TB =160 ; 41=6,000 ;																																																											
247000258	Arc/Filament/magnet- Reactivation	130	01APR11*	04OCT11	36,526.64																									EE//EM =48 ; EE//SB =08 ; EE//SM =48 ; EE//TB =144 ; 41=4,000 ;																																																											
247000259	LCC- Reactivation	130	01APR11*	04OCT11	43,267.95																									EE//EM =48 ; EE//SB =08 ; EE//SM =80 ; EE//TB =160 ; 41=4,000 ;																																																											
24-Cabling																																																																																									
247000260	Design - Penetrations	5	05SEP12*	11SEP12	6,884.00																																					EE//EM =08 ; EE//SB =40 ;																																															
247000420	Prep Req & Procurement Pckg - Penetrations	1	12SEP12	12SEP12	1,547.60																																					EE//EM =08 ;																																															
247000430	Submit Req to Procurement - Penetrations	1	13SEP12	13SEP12	773.80																																					EE//EM =04 ;																																															
247000440	Procurement Lead Time - Penetrations	15	14SEP12	04OCT12	0.00																																																																																				
247000450	Award - Penetrations	1	05OCT12	05OCT12	0.00																																																																																				
247000460	Procurement/Fab/Assembly - Penetrations	65	08OCT12	16JAN13	6,750.00																									M&S =5,000 ;																																																											
247000690	Installation Procedure - Penetrations	5	17JAN13	23JAN13	1,586.24																																					EE//EM =08 ;																																															
247000700	Installation - Penetrations	8	24JAN13	04FEB13	33,599.44																									EE//SM =32 ; EE//TB =64 ; EE//EM =08 ; M&S =15,000 ;																																																											
247000270	Design Removal of Cable	15	12SEP12	02OCT12	23,826.24																									EE//EM =40 ; EE//SB =120 ;																																																											
247000710	Removal - Cable	8	05FEB13	14FEB13	20,193.04																									EE//SM =40 ; EE//TB =120 ; EE//EM =08 ;																																																											
247000780	Commissioning - Removal of Cable	5	15FEB13	21FEB13	9,834.64																									EE//EM =16 ; EE//SM =16 ; EE//TB =40 ;																																																											
247000275	Design - Cables	30	21SEP12*	01NOV12	169,550.08																									EE//EM =280 ; EE//SB =840 ;																																																											
247000470	Prep Req & Procurement Pckg - Cables	1	02NOV12	02NOV12	1,586.24																									EE//EM =08 ;																																																											
247000480	Submit Req to Procurement - Cables	1	05NOV12	05NOV12	793.12																									EE//EM =04 ;																																																											
247000490	Procurement Lead Time - Cables	15	06NOV12	28NOV12	0.00																																																																																				
247000500	Award - Cables	1	29NOV12	29NOV12	0.00																																																																																				
247000510	Procurement - NBI Cables	84	30NOV12	04APR13	569,970.00																									M&S =422,200 ;																																																											
247000720	Installation Procedure - Cable	5	24JAN13	30JAN13	1,586.24																									EE//EM =08 ;																																																											
247000730	Installation - Cable	70	05APR13*	11JUL13	268,243.76																									EE//SM =560 ; EE//TB =840 ; EE//EM =112 ; M&S =50,000 ;																																																											
247000790	Commissioning - Cable	65	12JUL13	10OCT13	140,144.28																									EE//EM =240 ; EE//SM =240 ; EE//TB =520 ;																																																											
247000280	Prep Procurement Spec - Raceway	15	12OCT12*	01NOV12	24,340.00																									EE//EM =40 ; EE//SB =120 ;																																																											
247000520	Prep Req & Procurement Pckg - Raceway	1	05NOV12	05NOV12	1,586.24																									EE//EM =08 ;																																																											
247000530	Submit Req to Procurement - Raceway	1	06NOV12	06NOV12	793.12																									EE//EM =04 ;																																																											
247000540	Procurement Lead Time - Raceway	15	07NOV12	29NOV12	0.00																																																																																				
247000550	Award - Raceway	1	30NOV12	30NOV12	0.00																																																																																				
247000560	Procurement/Fab/Assembly - Raceway	65	03DEC12	11MAR13	40,500.00																									M&S =30,000 ;																																																											
247000740	Installation Procedure - Raceway	5	31JAN13	06FEB13	1,586.24																									EE//EM =08 ;																																																											
247000750	Installation - 2nd NBI Raceway	70	05APR13*	11JUL13	737,582.08																									EE//SM =320 ; EE//TB =320 ; EE//EM =16 ; M&S =480,000 ;																																																											
247000795	Commissioning - Raceway	5	12JUL13	18JUL13	9,834.64																									EE//EM =16 ; EE//SM =16 ; EE//TB =40 ;																																																											
25-Transmission Line																																																																																									
247000285	Design Transmission Line	240	02NOV12*	15OCT13	133,129.92																									EE//EM =56 ; EA//SB =120 ; EE//SM =136 ; EE//TB =232 ; 41=9,000 ; S/C =35,000 ;																																																											
28-System Design & Integration																																																																																									
247000090	Design dwgs, changes,as-builts	743	01OCT09	21SEP12*	87,221.62																																					RAKI =240 ; CLARK =320 ;																																															

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10												FY11												FY12												FY13												FY14												FY15											
247000100	CDR Complete Power System	20	01OCT09	28OCT09*	12,595.20	RAKI =40 ; CLARK =40 ;																																																																							
247000180	PDR Preparation	155	29OCT09	16JUN10	12,607.20	RAKI =40 ; CLARK =40 ;																																																																							
247000190	Conduct PDR	1	17JUN10	17JUN10	0.00																																																																								
247000200	PDR Complete	0		17JUN10*	0.00																																																																								
247000235	Calculations - Final Dsgn	181	18JUN10	11MAR11	7,513.87	RAKI =40 ;																																																																							
247000295	FDR Cabling	181	18JUN10	11MAR11	12,695.51	RAKI =40 ; CLARK =40 ;																																																																							
247000300	Conduct FDR	1	14MAR11	14MAR11	0.00																																																																								
247000305	FDR Complete	0		14MAR11	0.00																																																																								
System Testing																																																																													
247000890	New Procedures, PTP's, ISTEP's	44	01OCT13*	29NOV13	19,342.40																									EE//EM =40 ; EE//SB =80 ;																																															
247000900	DC Hipots Engineering	20	02DEC13*	27DEC13	8,129.60																																					EE//EM =40 ;																																			
247000910	DC Hipots Commissioning	40	30DEC13	21FEB14	11,278.40																									EE//EM =24 ; EE//TB =64 ;																																															
247000920	Elect Interlock Testing Eng	20	02DEC13*	27DEC13	1,625.92																																					EE//EM =08 ;																																			
247000930	Elect Interlock Testg Commissioning	40	30DEC13	21FEB14	11,278.40																									EE//EM =24 ; EE//TB =64 ;																																															
247000940	Kirk Key Testing Eng	20	02DEC13*	27DEC13	1,625.92																																					EE//EM =08 ;																																			
247000941	Kirk Key Testg Commissioning	40	30DEC13	21FEB14	5,652.08																									EE//EM =16 ; EE//TB =24 ;																																															
247000945	Instrumentation Testing Engr	20	02DEC13*	27DEC13	1,625.92																																					EE//EM =08 ;																																			
247000946	Instrumentation Commissioning	40	30DEC13	21FEB14	4,852.00																									EE//EM =16 ; EE//TB =16 ;																																															
247000950	Control Sys Engr	20	02DEC13*	27DEC13	1,625.92																																					EE//EM =08 ;																																			
247000951	Control Sys Commissioning	40	30DEC13	21FEB14	7,278.00																									EE//EM =24 ; EE//TB =24 ;																																															
247000960	Coil Protection Engr	20	02DEC13*	27DEC13	1,625.92																																					EE//EM =08 ;																																			
247000971	Coil Protection Commissioning	40	30DEC13	21FEB14	7,278.00																									EE//EM =24 ; EE//TB =24 ;																																															
FY092470	FY09 Actual Cost	22*	01JAN09A	30SEP09A	115,170.00	31=115,170 ;																																																																							
Job: 2475 - 2nd NBI Controls-CROPPER																																																																													
Design																																																																													
247500100	Control System Layout	47	03NOV09*	19JAN10	49,277.60	CROPPER =272 ; ROSSI =40 ;																																																																							
247500110	Update Cost & Schedule Estimate	5	20JAN10	26JAN10	6,490.00	CROPPER =40 ;																																																																							
247500120	Fema Analysis	5	20JAN10	26JAN10	6,490.00	CROPPER =40 ;																																																																							
247500130	Design Drawings - Prelim Dsgn	88	20JAN10	21MAY10	144,908.80	CROPPER =640 ; CLARK =320 ;																																																																							
247500140	PDR Prep PPL	2	24MAY10	25MAY10	2,596.00	CROPPER =16 ;																																																																							
247500150	PDR Prep PU	2	26MAY10	27MAY10	2,596.00	CROPPER =16 ;																																																																							
247500160	PDR Prep DOE	2	28MAY10	01JUN10	2,596.00	CROPPER =16 ;																																																																							
247500170	CONDUCT PDR	1	02JUN10	02JUN10	1,298.00	CROPPER =08 ;																																																																							
247500180	Disposition PDR Chits	2	03JUN10	04JUN10	2,596.00	CROPPER =16 ;																																																																							
247500190	Design Drawings	75	07JUN10	21SEP10*	25,960.00	CROPPER =160 ;																																																																							
247500200	PLC & RSView Programing	75	03JUN10	17SEP10	51,920.00	CROPPER =320 ;																																																																							
247500210	TC Scanner Programing	115	20SEP10	09MAR11	24,741.12	CROPPER =24 ; ROSSI =160 ;																																																																							
247500220	LCC Remote LabView Programing	115	20SEP10	09MAR11	45,546.21	ROSSI =320 ; CROPPER =24 ;																																																																							
247500230	Update Cost & Schedule Estimate	5	10MAR11	16MAR11	6,566.00	CROPPER =40 ;																																																																							
247500240	FDR Prep PPL	2	17MAR11	18MAR11	2,626.40	CROPPER =16 ;																																																																							
247500250	FDR Prep PU	2	21MAR11	22MAR11	2,626.40	CROPPER =16 ;																																																																							
247500260	FDR Prep DOE	2	23MAR11	24MAR11	2,626.40	CROPPER =16 ;																																																																							
247500270	CONDUCT FDR	1	25MAR11	25MAR11	1,313.20	CROPPER =08 ;																																																																							

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10										FY11										FY12										FY13										FY14										FY15									
						Q1		Q2		Q3		Q4		Q1		Q2		Q3		Q4		Q1		Q2		Q3		Q4		Q1		Q2		Q3		Q4																													
Procure, Fab & Assembly																																																																	
247500280	Prep Requisition and procurement package	5	04SEP12*	10SEP12	6,730.40																																																												
247500290	Submit Requisition to Procurement	1	11SEP12	11SEP12*	1,346.08																																																												
247500300	Procurement lead time (1)	25	12SEP12	16OCT12	0.00																																																												
247500310	AWARD	1	17OCT12	17OCT12	0.00																																																												
247500320	Fabricate or delivery	130	18OCT12	29APR13	421,200.00																																																												
247500330	Fab/Assy Procedure	5	30APR13	06MAY13	6,898.40																																																												
247500340	Shop Fabrication - Cable Tray	40	07MAY13	01JUL13	64,838.40																																																												
247500350	Gradient Grid Divider	20	07MAY13	03JUN13	66,583.84																																																												
247500370	Penetrations	5	04JUN13	10JUN13	63,484.48																																																												
247500380	Control Rack Cage	5	11JUN13	17JUN13	29,734.48																																																												
247500390	Installation Procedures	5	07MAY13	13MAY13	12,355.20																																																												
247500400	Beam Line Cabling	80	08OCT13*	27JAN14	297,444.00																																																												
247500410	Rack relocation	25	28JAN14	03MAR14	72,613.60																																																												
247500420	Aux Cabling	20	28JAN14	24FEB14	47,075.20																																																												
247500430	TC Scanner	20	04MAR14	31MAR14	47,075.20																																																												
247500440	NBOS Station	10	25FEB14	10MAR14	30,144.00																																																												
247500450	LCC Remote	40	28JAN14	24MAR14	160,780.00																																																												
247500460	Power Supply Upgrade	23	01APR14	01MAY14	63,472.00																																																												
247500470	Protective Plate TC's	10	02MAY14	15MAY14	12,243.52																																																												
247500480	PTP Testing	10	16MAY14	29MAY14	22,143.20																																																												
Job: 2480 - 2nd NB/TVPS Duct & VV-PRINISKI																																																																	
Design																																																																	
24800010	CD for NSTX VV in Bay J-K area	10	01OCT09*	14OCT09	5,049.80																																																												
24800020	CD of Port K Extension	3	01OCT09*	05OCT09	2,370.36																																																												
24800030	CD Ceramic Break Flanges	10	01OCT09*	14OCT09	5,049.80																																																												
24800040	CD Spool Piece	3	01OCT09*	05OCT09	2,720.80																																																												
24800050	C&S Development	10	01OCT09	14OCT09	6,595.20																																																												
24800060	C&S Review	1	15OCT09	15OCT09	659.52																																																												
24800070	NSTX J-K Mockup purchase	15	01OCT09*	21OCT09	4,840.00																																																												
24800080	Prep for PPPL/Ext CDR	5	22OCT09	28OCT09	5,049.80																																																												
24800090	PPPL CDR	1	29OCT09	29OCT09	0.00																																																												
24800095	Prep for PU CDR	5	30OCT09	05NOV09	10,099.60																																																												
24800100	Prep for DOE CDR	8	06NOV09	17NOV09	4,039.84																																																												
24800110	CDR Chit Resolution - Preliminary Design	30	18NOV09*	11JAN10	25,577.44																																																												
24800120	Thermal Analysis	2	12JAN10	13JAN10	2,964.96																																																												
24800130	Seismic Analysis	1	12JAN10	12JAN10	0.00																																																												
24800140	FMEA Analysis - Preliminary Design	2	12JAN10	13JAN10	2,638.08																																																												
24800150	Prepare NEPA Form - Preliminary Design	1	12JAN10	12JAN10	329.76																																																												
24800160	NSTX VV Modification Prototype	15	12JAN10	01FEB10	27,046.10																																																												
24800170	J-K RWM Coil Redesign	30	02FEB10	15MAR10	25,450.80																																																												

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10						FY11						FY12						FY13						FY14						FY15					
24800180	Update Cost & Sched Estimate - Prelim Dsgn	3	02FEB10	04FEB10	2,638.08	PRINISKI =16 ;																																			
24800190	Design Drawings - Preliminary Design	50	02FEB10	12APR10	34,216.80	PRINISKI =80 ; WINKELMAN =240 ;																																			
24800200	PDR Prep - Duct & VV Mods	40	13APR10	08JUN10	7,471.30	PRINISKI =40 ; WINKELMAN =10 ;																																			
24800210	CONDUCT PDR - Duct & VV Mods	1	09JUN10	09JUN10	1,319.04	PRINISKI =08 ;																																			
24800215	Preliminary Design Revw Complete -Duct & VV Mods	0		09JUN10*	0.00																																				
24800220	Disposition PDR Chits - Final Design	20	10JUN10*	08JUL10	11,294.56	PRINISKI =60 ; WINKELMAN =16 ;																																			
24800230	Design Drawings - Final Design	25	09JUL10	12AUG10	22,365.00	PRINISKI =40 ; WINKELMAN =180 ;																																			
24800232	Design Drawings - Final Design	20	16JUL10	12AUG10	35,891.76	PRINISKI =80 ; WINKELMAN =16 ;																																			
24800235	Update Analysis - Final Design	20	09JUL10	05AUG10	3,100.48	M&S =5,000 ; EM/TB =160 ;																																			
24800240	Update Cost & Sched Estimate - Final Dsgn	3	09JUL10	13JUL10	3,297.60	EA/EM =16 ;																																			
24800250	Prep Procurement Specs - Final Design	30	14JUL10	24AUG10	9,892.80	PRINISKI =20 ;																																			
24800260	FDR Prep-Duct & VV Mods	20	14JUL10	10AUG10	8,145.44	PRINISKI =60 ;																																			
24800270	CONDUCT FDR-Duct & VV Mods	1	11AUG10	11AUG10	1,319.04	PRINISKI =40 ; EA/EM =08 ;																																			
24800280	Final Design Review Complete-Duct & VV Mods	0		01NOV10*	0.00	PRINISKI =08 ;																																			
Procure, Fab & Assembly																																									
24800300	Prep Req & Procurement Pckg - 40" VAT Valves (2)	2	04SEP12*	05SEP12	1,367.92													PRINISKI =08 ;																							
24800310	Submit Req to Procurement - 40" VAT Valves (2)	1	06SEP12	06SEP12	683.96													PRINISKI =04 ;																							
24800320	Procurement Lead Times - 40" VAT Valves (2)	25	07SEP12	11OCT12	0.00																																				
24800330	Award - - 40" VAT Valves (2)	1	12OCT12	12OCT12	0.00																																				
24800340	Fabricate / Delivery - 40" VAT Valves (2)	120	15OCT12	10APR13	337,500.00													M&S =250,000 ;																							
24800350	Prep Req & Procurement Pckg-40" Bellows Section	2	06SEP12*	07SEP12	1,367.92													PRINISKI =08 ;																							
24800355	Submit Req to Procurement - 40" Bellows Section	1	10SEP12	10SEP12	683.96													PRINISKI =04 ;																							
24800360	Procurement Lead Time - 40" Bellows Section	25	11SEP12	15OCT12	0.00																																				
24800370	Award - 40" Bellows Section	1	16OCT12	16OCT12	0.00																																				
24800380	Fabricate / Delivery - 40" Bellows Section	120	17OCT12	12APR13	391,500.00													41=250000 ; 48=50000																							
24800381	Prep Req & Proc Pckg-Rectangular Bellows Section	2	11JUN12*	12JUN12	1,367.92													PRINISKI =08 ;																							
24800382	Submit Req to Proc-Rectangular Bellows Section	1	13JUN12	13JUN12	683.96													PRINISKI =04 ;																							
24800383	Procurement Lead Time-Rectangular Bellows Sectn	25	14JUN12	19JUL12	0.00																																				
24800384	Award-Rectangular Bellows Section	1	20JUL12	20JUL12	0.00																																				
24800385	Fabricate / Delivery-Rectangular Bellows Section	180	23JUL12	11APR13	496,233.33													41=250000 ; 48=150000																							
24800400	Prep Req & Procurement Pckg - Spool Piece	2	10SEP12*	11SEP12	1,367.92													PRINISKI =08 ;																							
24800410	Submit Req to Procurement - Spool Piece	1	12SEP12	12SEP12	683.96													PRINISKI =04 ;																							
24800420	Procurement Lead Times - Spool Piece	25	13SEP12	17OCT12	0.00																																				
24800430	Award - Spool Piece	1	18OCT12	18OCT12	0.00																																				
24800440	Fabricate / Delivery - Spool Piece	120	19OCT12	16APR13	54,000.00													M&S =40,000 ;																							
24800450	Prep Requisition & Procurement Pckg - Vessel Cap	5	11APR12*	17APR12	6,839.60													PRINISKI =40 ;																							
24800455	Submit Requisition to Procurement -Vessel Cap	1	18APR12	18APR12	0.00																																				
24800460	Procurement Lead Time - Vessel Cap	25	19APR12	23MAY12	0.00																																				
24800470	Award - Vessel Cap	1	24MAY12	24MAY12	0.00																																				
24800480	Fabricate / Delivery - Vessel Cap	200	25MAY12	15MAR13	275,873.04													M&S =100,000 ; EM/SB =1,100																							
24800490	Fabricate / Delivery - RWM Coil	100	06SEP12	04FEB13	228,633.00													M&S =170,000 ;																							
24800500	Prep Req & Procurement Pckg-Other Material f/Duct	1	18SEP12*	18SEP12	1,367.92													PRINISKI =08 ;																							

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	Fiscal Year												
						FY10	FY11	FY12	FY13	FY14	FY15							
24800505	Submit Req to Procurement -Other Material f/Duct	1	19SEP12	19SEP12	683.96							PRINISKI =04						
24800510	Procurement Lead Time - Other Material for Duct	15	20SEP12	10OCT12	0.00													
24800520	Award - Other Material for Duct	1	11OCT12	11OCT12	0.00													
24800530	Fabricate / Delivery-Other Mtrl f/Duct	30	12OCT12	26NOV12	189,000.00							M&S =60,000						
24800550	Procurement / Fabrication / Assembly Complete	0		16APR13	0.00													
Installation																		
24800600	Begin Duct & Armor Installation	0	17APR13		0.00													
24800610	Installation Procedure - Duct & VV Mods	20	18MAR13	12APR13	15,773.40													
24800620	Machine Installation - Duct & VV Mods	90	17APR13	20AUG13	211,540.80					PRINISKI =80 ; EM/SM =1,200								
24800630	PTP Testing - Duct & VV Mods	4	21AUG13	26AUG13	2,633.60												PRINISKI =16	
FY092480	FY09 Actual Cost	22*	01JAN09A	30SEP09A	183,352.00	81=183,352 ;												
Job: 2485 - Vacuum Pumping System-PRINISKI																		
Design																		
24850010	CD of System Layout	5	05OCT09*	09OCT09	5,049.80	PRINISKI =20 ; WINKELMAN =20 ;												
24850020	CD of Pump Duct(s)	5	12OCT09	16OCT09	2,370.36	PRINISKI =08 ; WINKELMAN =12 ;												
24850030	CD of Magnetic Shield	10	19OCT09	30OCT09	5,049.80	PRINISKI =20 ; WINKELMAN =20 ;												
24850040	C&S Review	1	02NOV09	02NOV09	659.52	PRINISKI =04 ;												
24850050	Prep for PPPL/Ext CDR	5	03NOV09	09NOV09	5,049.80	PRINISKI =20 ; WINKELMAN =20 ;												
24850060	PPPL CDR	1	10NOV09	10NOV09	0.00													
24850070	Prep for PU CDR	5	11NOV09*	17NOV09	10,099.60	PRINISKI =40 ; WINKELMAN =40 ;												
24850080	Prep for DOE CDR	8	11NOV09	20NOV09	4,039.84	PRINISKI =16 ; WINKELMAN =16 ;												
24850090	CDR Chit Resolution (all areas)	20	03NOV09*	02DEC09	8,347.40	PRINISKI =40 ; WINKELMAN =20 ;												
24850100	FMEA Analysis	2	03DEC09	04DEC09	2,638.08	PRINISKI =16 ;												
24850110	Prepare NEPA Form	1	03DEC09	03DEC09	329.76	PRINISKI =02 ;												
24850120	Update Cost & Schedule Estimate	3	03DEC09	07DEC09	2,638.08	PRINISKI =16 ;												
24850130	Design Drawings	110	03DEC09	14MAY10	5,153.20	PRINISKI =10 ; WINKELMAN =40 ;												
24850140	PDR Prep	10	17MAY10	28MAY10	3,648.04	PRINISKI =20 ; WINKELMAN =04 ;												
24850150	CONDUCT PDR	1	01JUN10	01JUN10	1,319.04	PRINISKI =08 ;												
24850160	Disposition PDR Chits	20	02JUN10*	29JUN10	14,592.16	PRINISKI =80 ; WINKELMAN =16 ;												
24850170	Design Drawings	175	30JUN10	15MAR11	6,182.61	PRINISKI =16 ; WINKELMAN =40 ;												
24850180	Update Cost & Schedule Estimate	3	16MAR11	18MAR11	2,669.12	PRINISKI =16 ;												
24850190	Prep Procurement Specs	5	21MAR11	25MAR11	3,336.40	PRINISKI =20 ;												
24850200	FDR Prep	6	21MAR11	28MAR11	5,535.18	PRINISKI =30 ; WINKELMAN =06 ;												
24850210	CONDUCT FDR	1	29MAR11	29MAR11	1,334.56	PRINISKI =08 ;												
Procure, Fab & Assembly																		
24850220	Prep Req & proc pkg - 3200i/s TMPx2	2	03OCT12*	04OCT12	1,402.08							PRINISKI =08 ;						
24850230	SUBMIT REQ TO PROC - 3200i/s TMPx2	1	05OCT12	05OCT12	701.04							PRINISKI =04 ;						
24850240	Procurement lead time (1) - 3200i/s TMPx2	25	08OCT12	09NOV12	0.00													
24850250	AWARD - 3200i/s TMPx2	1	12NOV12	12NOV12	0.00													
24850260	Fabricate or delivery - 3200i/s TMPx2	60	13NOV12	14FEB13	86,400.00							M&S =64,000						
24850270	Prep Req & proc pkg - New VAT Valves	2	05OCT12	08OCT12	1,402.08							PRINISKI =08 ;						
24850280	SUBMIT REQ TO PROC- New VAT Valves	1	09OCT12	09OCT12	701.04							PRINISKI =04 ;						

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10												FY11												FY12												FY13												FY14												FY15																							
24850290	Procurement lead time (1)- New VAT Valves	15	10OCT12	30OCT12	0.00																																																																																				
24850300	AWARD- New VAT Valves	1	31OCT12	31OCT12	0.00																																																																																				
24850310	Fabricate or delivery - 3200i/s TMPx2	60	01NOV12	04FEB13	27,000.00																																					M&S =20,000 ;																																															
24850320	Prep Req & proc pkg - Misc Mtrl/Comp for Ducts	2	09OCT12	10OCT12	1,402.08																																					PRINISKI =08 ;																																															
24850330	SUBMIT REQ TO PROC - Misc Mtrl/Comp for Ducts	1	11OCT12	11OCT12	701.04																																					PRINISKI =04 ;																																															
24850340	Procurement lead time (1) - Mtrl/Comp for Duct	15	12OCT12	01NOV12	0.00																																																																																				
24850350	AWARD - Misc Mtrl/Comp for Ducts	1	02NOV12	02NOV12	0.00																																																																																				
24850360	Fabricate or delivery - Misc Mtrl/Comp for Ducts	30	05NOV12	18DEC12	27,000.00																																					M&S =20,000 ;																																															
24850370	Installation Procedure	10	05OCT12	18OCT12	10,515.60																																					PRINISKI =60 ;																																															
Installation																																																																																									
24850380	Machine Installation	90	15FEB13	20JUN13	62,151.60																																					PRINISKI =40 ; EM/SB =360 ; M&S =6,000 ;																																															
24850390	PTP Testing	10	21JUN13	04JUL13	6,584.00																																																	EM/SM =40 ;																																			
Job: 2490 - NTC Equip Relocations-PERRY																																																																																									
Removal Procedures																																																																																									
24910010	Prep procd rack 419 removal - UCLA Reflectometer	3	03OCT11*	05OCT11	3,853.92																																					LANGELA =24 ;																																															
24910060	Prep rmlv proced rack 431-435-VV T/C & magnetics	3	06OCT11	10OCT11	3,853.92																																					LANGELA =24 ;																																															
24910110	Prep procd rack 436-439 removal-Firetp/High K	3	11OCT11	13OCT11	3,853.92																																					LANGELA =24 ;																																															
24910160	Prep procedure rack 440 removal-SPRED & VIPS	3	14OCT11	18OCT11	3,853.92																																					LANGELA =24 ;																																															
24910210	Prep procedure rack 441-445 removal-VV ion gages	3	19OCT11	21OCT11	3,853.92																																					LANGELA =24 ;																																															
24910260	Prep procedure rack 447-448 removal-Fiber Optics	3	24OCT11	26OCT11	3,853.92																																					LANGELA =24 ;																																															
24910310	Prep procedure rack 449 removal - Glow Discharge	3	27OCT11	31OCT11	3,853.92																																					LANGELA =24 ;																																															
24910360	Prep proced rack 456 removal-Xray Crystal Spectr	3	01NOV11	03NOV11	3,853.92																																					LANGELA =24 ;																																															
24910380	Prp procd rack 488 remv-Dep monitr/fast xray/NPA	3	04NOV11	08NOV11	3,853.92																																					LANGELA =24 ;																																															
24910430	Prep procedure rack 489 removal - NPA	3	09NOV11	11NOV11	3,853.92																																					LANGELA =24 ;																																															
24910450	Prep procedure rack removal - PSI Camera	3	14NOV11	16NOV11	3,853.92																																					LANGELA =24 ;																																															
24910500	Prp procd rack removal -Ultra Fast X-ray Camera	3	17NOV11	21NOV11	3,853.92																																					LANGELA =24 ;																																															
24910550	Prep procd rack removal-Transmsn Grating Spectro	3	22NOV11	28NOV11	3,853.92																																					LANGELA =24 ;																																															
24910700	Prp procd equip removal Bay J-Two gas injectors	1	29NOV11	29NOV11	1,367.92																																					EM//EM =08 ;																																															
24910750	Prep procd equipment removal Bay J - Reflectomer	1	30NOV11	30NOV11	1,367.92																																					EM//EM =08 ;																																															
24910800	Prep procdur equipment removal Bay J - Bolometer	1	01DEC11	01DEC11	1,367.92																																					EM//EM =08 ;																																															
24910850	Prep procdure equipment removal Bay J - RF Prove	1	02DEC11	02DEC11	1,367.92																																					EM//EM =08 ;																																															
24910900	Prep procedure equipment removal Bay J - S-Flip	1	05DEC11	05DEC11	1,367.92																																					EM//EM =08 ;																																															
24910950	Prep procedure equipment removal Bay J - SSNPA	1	06DEC11	06DEC11	1,367.92																																					LANGELA =08 ;																																															
24911000	Prp procd equip removal Bay J-Re-entrant Window	1	07DEC11	07DEC11	1,367.92																																					EM//EM =08 ;																																															
24911050	Prp procd equip removal Bay K-High K Scattering	5	08DEC11	14DEC11	6,839.60																																					EM//EM =40 ;																																															
24911070	Prep procdure equipment removal Bay K - FireTips	5	15DEC11	21DEC11	6,839.60																																					EM//EM =40 ;																																															
24911090	Prep procdur equipment removal Bay K - PSI Camera	3	22DEC11	03JAN12	4,103.76																																					EM//EM =24 ;																																															
24911110	Prp procedure equipment removal Bay K - NPA	5	04JAN12	10JAN12	6,839.60																																					EM//EM =40 ;																																															
24911130	Prp procd equip remov Bay K-Ultra Fast Xray Cam	1	11JAN12	11JAN12	1,367.92																																					EM//EM =08 ;																																															
24911150	Prp procd equip removal Bay K-IR Window f/Camra	1	12JAN12	12JAN12	1,367.92																																					EM//EM =08 ;																																															
24911200	Prp procd equip removal Bay K-Trans Grating Spec	1	13JAN12	13JAN12	1,367.92																																					EM//EM =08 ;																																															
24911250	Prep procd EQ remval Bay L pmp duct-VV Ion Gages	2	16JAN12	17JAN12	2,735.84																																					EM//EM =16 ;																																															
24911300	Prp procd EQ rem BayL pmp duct-X-ray Crystal Spe	1	18JAN12	18JAN12	1,367.92																																					EM//EM =08 ;																																															

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	Fiscal Year										
						FY10	FY11	FY12	FY13	FY14	FY15					
24911320	Prep procedu equip removal Bay L pump duct-SPRED	1	19JAN12	19JAN12	1,367.92				EM/EM =08							
24911390	Prep procedure equip removal Bay L pump duct-RGA	2	20JAN12	23JAN12	2,735.84				EM/EM =16							
24911460	Prep procedu equip removal Bay L pump duct-LOWEUS	1	24JAN12	24JAN12	1,367.92				EM/EM =08							
24911630	Prp procd EQ remov Bay L pmp duct-MPTS Beam Dump	1	25JAN12	25JAN12	1,367.92				EM/EM =08							
24911642	Prp procd EQ remov Bay L pmp duct-Pump Duct	4	26JAN12	31JAN12	1,367.92				EM/EM =08							
24911750	Prep procdur Power/Ground/Light @ Platform W NTC	5	01FEB12	07FEB12	6,608.24				LANGELA =08 ; EA/SB =40							
24911820	Prp procd EQ Remov Misc. - Gas Delivery System	1	08FEB12	08FEB12	1,367.92				LANGELA =08							
24911840	Prp procd EQ Remov Misc. - NW Sect 109' Platform	2	09FEB12	10FEB12	2,735.84				LANGELA =16							
24911860	Prp procd EQ Remov Misc. - Convenience Outlets	5	13FEB12	17FEB12	6,839.60				LANGELA =40							
24911880	Prp procd EQ Remov Misc. - Cat 3 & Cat 4 Bus	5	20FEB12	24FEB12	6,839.60				LANGELA =40							
24911900	Prp procd EQ Remv Misc-Lights/E-stops/Fire Alarm	6	27FEB12	05MAR12	8,207.52				LANGELA =48							
24911920	Prp procd EQ Rem Misc-Glow Disch Splice Box/Disc	2	06MAR12	07MAR12	2,735.84				LANGELA =16							
Removals																
24910019	BEGIN DIAG REMOVALS	0		04SEP12*	0.00											
24910020	Remove rack 419 - UCLA Reflectometer	4	05SEP12	10SEP12	7,742.40				LANGELA =08 ; EM/TB =64 ; M&S =100							
24910070	Remove rack 431-435 removal-VV T/C & magnetics	15	11SEP12	01OCT12	29,040.46				LANGELA =32 ; EM/TB =240 ; M&S =100							
24910120	Remove rack 436-439 - Firetip, High K	15	02OCT12	22OCT12	29,716.60				LANGELA =32 ; EM/TB =240 ; M&S =100							
24910170	Remove rack 440 - SPRED and VIPS	8	23OCT12	01NOV12	13,710.08				LANGELA =16 ; EM/TB =108 ; M&S =100							
24910220	Remove rack 441-445 - VV ion gages, RGA	15	02NOV12	26NOV12	29,716.60				LANGELA =32 ; EM/TB =240 ; M&S =100							
24910270	Remove rack 447-448 - Fiber Optics	5	27NOV12	03DEC12	10,873.40				LANGELA =16 ; EM/TB =80 ; M&S =100							
24910320	Remove rack 449 - Glow Discharge	10	04DEC12	17DEC12	20,295.00				LANGELA =24 ; EM/TB =160 ; M&S =100							
24910370	Remove rack 456 --Xray Crystal Spectr	7	18DEC12	03JAN13	14,115.32				LANGELA =16 ; EM/TB =112 ; M&S =100							
24910390	Remove rack 488 - Depositn monitor/fast xray/NPA	7	04JAN13	14JAN13	14,115.32				LANGELA =16 ; EM/TB =112 ; M&S =100							
24910440	Remove rack 489 - NPA	10	05SEP12	18SEP12	19,800.32				LANGELA =24 ; EM/TB =160 ; M&S =100							
24910460	Remove rack - PSI Camera	2	19SEP12	20SEP12	4,579.52				LANGELA =08 ; EM/TB =32 ; M&S =100							
24910510	Remove rack - Ultra Fast X-ray Camera	2	21SEP12	24SEP12	4,579.52				LANGELA =08 ; EM/TB =32 ; M&S =100							
24910560	Remove rack - Transmission Grating Spectrometer	3	25SEP12	27SEP12	6,160.96				LANGELA =08 ; EM/TB =48 ; M&S =100							
24910690	Moving equipment In & Out of NTC	6	28SEP12	05OCT12	12,309.12				LANGELA =16 ; EM/TB =96							
24910710	Remove Bay J - Two gas injectors	1	08OCT12	08OCT12	1,755.96				EM/TB =16 ; M&S =100							
24910760	Remove Bay J - Reflectomer	1	09OCT12	09OCT12	1,755.96				EM/TB =16 ; M&S =100							
24910810	Remove Bay J - Bolometer	1	10OCT12	10OCT12	1,755.96				EM/TB =16 ; M&S =100							
24910860	Remove Bay J - RF Prove	1	11OCT12	11OCT12	1,755.96				EM/TB =16 ; M&S =100							
24910910	Remove Bay J - S-Flip	1	12OCT12	12OCT12	1,755.96				EM/TB =16 ; M&S =100							
24910960	Remove Bay J - SSNPA	1	15OCT12	15OCT12	945.48				EM/TB =08 ; M&S =100							
24911010	Remove Bay J - Re-entrant Window	1	16OCT12	16OCT12	945.48				EM/TB =08 ; M&S =100							
24911060	Remove Bay K - High K Scattering	10	17OCT12	30OCT12	32,554.20				EM/TB =320 ; M&S =100							
24911080	Remove Bay K - FireTips	5	31OCT12	06NOV12	16,344.60				EM/TB =160 ; M&S =100							
24911100	Remove Bay K - PSI Camera	4	07NOV12	12NOV12	13,102.68				EM/TB =128 ; M&S =100							
24911120	Remove Bay K - NPA	10	13NOV12	28NOV12	32,554.20				EM/TB =320 ; M&S =100							
24911140	Remove Bay K - Ultra Fast X-ray Camera	1	29NOV12	29NOV12	945.48				EM/TB =08 ; M&S =100							

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10												FY11												FY12												FY13												FY14												FY15											
24911160	Remove Bay K - IR Window for Camera	1	30NOV12	30NOV12	945.48																																					EM/TB =08 ; M&S =100 ;																																			
24911210	Remove Bay K - Transmission Grating Spectrometer	1	03DEC12	03DEC12	945.48																																					EM/TB =08 ; M&S =100 ;																																			
24911260	Remove Bay Bay L pump duct-VV Ion Gages/Filament	2	04DEC12	05DEC12	3,376.92																																					EM/TB =32 ; M&S =100 ;																																			
24911310	Remove Bay Bay L pump duct-X-ray Crystal Spectr	1	06DEC12	06DEC12	2,566.44																																					EM/TB =24 ; M&S =100 ;																																			
24911330	Remove Bay L pump duct-SPRED	1	07DEC12	07DEC12	1,755.96																																					EM/TB =16 ; 41=100 ;																																			
24911400	Remove Bay L pump duct-RGA	3	10DEC12	12DEC12	4,997.88																																					EM/TB =48 ; M&S =100 ;																																			
24911470	Remove Bay L pump duct - LOWEUS	3	13DEC12	17DEC12	1,755.96																																					EM/TB =16 ; M&S =100 ;																																			
24911640	Remove Bay L pump duct-MPTS Beam Dump Window	1	18DEC12	18DEC12	945.48																																					EM/TB =08 ; M&S =100 ;																																			
24911646	Remove Bay L pump duct-Pump Duct	1	19DEC12	19DEC12	15,871.28																																					EM/TB =128 ; M&S =200 ;																																			
24911830	Remove Misc. EQ. - Gas Delivery System	4	20DEC12	02JAN13	16,951.28																																					EM/SM =16 ; EM/TB =128 ;																																			
24911850	Remove Misc. EQ - NW Sect 109' Platform	6	03JAN13	10JAN13	31,501.92																																					EM/SM =24 ; EM/TB =192 ;																																			
24911870	Remove Misc. EQ - Convenience Outlets	10	11JAN13	24JAN13	21,510.00																																					M&S =6,000 ; EM/SM =24 ; EM/TB =160 ;																																			
24911890	Remove Misc. EQ - Cat 3 & Cat 4 Bus	5	25JAN13	31JAN13	13,438.40																																					M&S =1,000 ; EM/SM =16 ; EM/TB =80 ;																																			
24911910	Remove Misc. EQ-Lights/E-stops/Fire Alarm	13	01FEB13	19FEB13	30,389.68																																					EM/SM =32 ; EM/TB =208 ;																																			
24911930	Remove Misc. EQ-Glow Disch Splice Box/Disc	2	20FEB13	21FEB13	5,908.72																																					M&S =3,000 ; EM/SM =08 ; EM/TB =32 ;																																			
24919999	REMOVALS COMPLETE	0		21FEB13	0.00																																					M&S =1,000 ;																																			
Design, Procurement & Fabr of Re-installations																																																																													
24910030	Dsgn rack 419 re-installation - UCLA Reflectomer	17	03OCT11*	25OCT11	23,309.52																																					LANGELA =16 ; EA/SB =136 ;																																			
24910040	Prep procd rack 419 reinstalltn-UCLA Reflectomet	3	26OCT11	28OCT11	4,478.80																																					M&S =2,000 ; LANGELA =08 ; EA/SB =24 ;																																			
24910080	Dsgn rack 431-435 reinstalltn-VV T/C/magnetics	45	31OCT11	11JAN12	68,820.24																																					LANGELA =48 ; EA/SB =360 ;																																			
24910090	Prep procd rack 431-435 reinstln-VV T/C/magnetic	5	12JAN12	18JAN12	6,608.24																																					M&S =10,000 ; LANGELA =08 ; EA/SB =40 ;																																			
24910180	Design rack 440 re-installation - SPRED	13	19JAN12	06FEB12	19,050.64																																					LANGELA =16 ; EA/SB =104 ;																																			
24910190	Prep procd rack 440 reinstalltn-SPRED	3	07FEB12	09FEB12	4,478.80																																					M&S =2,000 ; LANGELA =08 ; EA/SB =24 ;																																			
24910230	Dsgn rack 441-445 re-installtn-VV ion gages/RGA	46	10FEB12	13APR12	63,284.96																																					LANGELA =48 ; EA/SB =368 ;																																			
24910240	Prep procd rack 441-445 reinstln-VV ion gage/RGA	5	16APR12	20APR12	6,608.24																																					M&S =5,000 ; LANGELA =08 ; EA/SB =40 ;																																			
24910280	Design rack 447-448 re-installation-Fiber Optics	17	23APR12	15MAY12	23,309.52																																					LANGELA =16 ; EA/SB =136 ;																																			
24910290	Prep procd rack 447-448 re-installtn-Fiber Optics	3	16MAY12	18MAY12	4,478.80																																					M&S =2,000 ; LANGELA =08 ; EA/SB =24 ;																																			
24910330	Design rack 449 re-installation - Glow Discharge	45	21MAY12	24JUL12	66,180.24																																					LANGELA =48 ; EA/SB =360 ;																																			
24910340	Prep procedure rack 449 reinstall-Glow Discharge	5	25JUL12	31JUL12	6,608.24																																					M&S =8,000 ; LANGELA =08 ; EA/SB =40 ;																																			
24910400	Dsgn rack 488 reinstal-Dep monitr/fast xray	20	01AUG12	28AUG12	27,788.32																																					LANGELA =24 ; EA/SB =160 ;																																			
24910410	Prp procd rck 488 reinst-Dep monitr/fast xray	5	29AUG12	05SEP12	6,608.24																																					M&S =2,000 ; LANGELA =08 ; EA/SB =40 ;																																			
24910470	Design rack re-installation - PSI Camera	20	06SEP12	03OCT12	27,891.71																																					LANGELA =24 ; EA/SB =160 ;																																			
24910480	Prep procedure rack re-installation - PSI Camera	5	04OCT12	10OCT12	6,773.60																																					M&S =2,000 ; LANGELA =08 ; EA/SB =40 ;																																			
24910520	Dsgn rack reinstallation-Ultra Fast X-ray Camera	20	11OCT12	07NOV12	28,477.60																																					LANGELA =24 ; EA/SB =160 ;																																			
24910530	Prp procd rack re-install-Ultra Fast X-ray Camera	5	08NOV12	14NOV12	6,773.60																																					M&S =2,000 ; LANGELA =08 ; EA/SB =40 ;																																			
24910570	Dsgn rack re-install- Transmissn Grating Spectrom	13	15NOV12	05DEC12	15,504.48																																					LANGELA =08 ; EA/SB =104 ;																																			
24910580	Prp procd rack re-install-Transm Grating Spectrom	3	06DEC12	10DEC12	7,290.88																																					LANGELA =08 ; EA/SB =24 ;																																			
24910600	Design rack re-installation -IR Camera at Bay L	12	11DEC12	03JAN13	18,429.92																																					M&S =2,000 ; LANGELA =16 ; EA/SB =96 ;																																			
24910610	Prep procd rack re-installtn-IR Camera at Bay L	3	04JAN13	08JAN13	4,590.88																																					LANGELA =08 ; EA/SB =24 ;																																			

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	Fiscal Year Allocation																	
						FY10	FY11	FY12	FY13	FY14	FY15	FY10	FY11	FY12	FY13	FY14	FY15						
24910630	Design rack re-installation - IR Camera at Bay K	24	01AUG11*	01SEP11	39,011.28																		
24910640	Prep procedure rack reinstall-IR Camera at Bay K	3	02SEP11	07SEP11	4,369.76																		
24910660	Dsgn rack reinstall-Reconf AC & Diagnostic Trays	45	08SEP11	09NOV11	76,047.37																		
24910670	Prp procd rack reinstall-Reconf AC & Diagt Tray	5	10NOV11	16NOV11	6,608.24																		
24910730	Prep procd Equipt reinstIn Bay J-Two gas injectr	10	17NOV11	02DEC11	13,679.20																		
24910780	Prep procd Equipt reinstIn Bay J-Reflectomer	5	05DEC11	09DEC11	6,839.60																		
24910830	Prep procd Equipt reinstIn Bay J-Bolometer	5	12DEC11	16DEC11	6,839.60																		
24910880	Prep procd Equipt reinstIn Bay J-RF Prove	5	19DEC11	23DEC11	6,839.60																		
24910930	Prep procd Equipt reinstIn Bay J-S-Flip	5	09JAN13	15JAN13	7,010.40																		
24910980	Prep procd Equipt reinstIn Bay J-SSNPA	5	16JAN13	22JAN13	7,010.40																		
24911030	Prep procd Equip reinst Bay J-Re-entrant Window	5	23JAN13	29JAN13	7,010.40																		
24911180	Prep procd Equip reinst NB2 Duct-IR Window f/Cam	5	30JAN13	05FEB13	7,010.40																		
24911230	Prep procd EQ reinst NB2 Duct-Trans Grating Spect	5	06FEB13	12FEB13	7,010.40																		
24911280	Prep procd EQ reinst New pmp duct-VV Ion Gages	5	13FEB13	19FEB13	7,010.40																		
24911340	Design Equip re-installatn Bay L - SPRED	10	20FEB13	05MAR13	17,924.00																		
24911350	Prep procedure Equip re-installatn Bay L - SPRED	3	06MAR13	08MAR13	4,676.16																		
24911360	Procure Equipment re-installatn Bay L - SPRED	1	11MAR13	11MAR13	4,102.08																		
24911370	Fabrication Equipment re-installatn Bay L-SPRED	5	12MAR13	18MAR13	8,104.80																		
24911410	Prelim Design New Pump Duct - RGA	10	11MAR13	22MAR13	24,934.40																		
24911420	Final Design New Pump Duct - RGA	10	25MAR13	05APR13	24,934.40																		
24911430	Prep procd Equip reinstalltn New Pump Duct - RGA	5	08APR13	12APR13	6,858.88																		
24911440	Procure Equipment reinstallatn New Pump Duct-RGA	1	15APR13	15APR13	12,202.08																		
24911480	Design Bay L - LOWEUS	10	15APR13	26APR13	17,924.00																		
24911490	Prep procedure Equip re-installatn Bay L- LOWEUS	3	29APR13	01MAY13	4,676.16																		
24911500	Procure Equipment re-installatn Bay L- LOWEUS	1	02MAY13	02MAY13	1,402.08																		
24911510	Fabrication Equipment re-installatn Bay L-LOWEUS	10	03MAY13	16MAY13	8,104.80																		
24911530	Design Bay L - IR Camera	6	02MAY13	09MAY13	14,448.96																		
24911540	Prep procd Equip re-installatn Bay L- IR Camera	3	10MAY13	14MAY13	3,950.40																		
24911550	Procure Equip re-installatn Bay L- IR Camera	1	15MAY13	15MAY13	2,700.00																		
24911580	Design Bay L - Glow Discharge	10	15MAY13	28MAY13	17,924.00																		
24911590	Prep procd EQ reinstallatn Bay L-Glow Discharge	3	29MAY13	31MAY13	4,676.16																		
24911600	Procure EQ re-installatn Bay L-Glow Discharge	1	03JUN13	03JUN13	4,102.08																		
24911610	Fabrication EQ reinstallatn Bay L-Glow Discharge	10	04JUN13	17JUN13	8,104.80																		
24911650	Design Between Bay K/L-MPTS Beam Dump Window	6	03JUN13	10JUN13	12,156.48																		
24911660	Prp procd EQ reinst Betwn Bay K/L-MPTS Beam Dump	2	11JUN13	12JUN13	2,804.16																		
24911680	Fab EQ re-instal Betwn Bay K/L-MPTS Beam Dump Wd	10	13JUN13	26JUN13	13,504.80																		
24911700	Design 5 sections of Platform EI 118' W Side NTC	10	13JUN13	26JUN13	18,386.24																		
24911710	Prep procd 5 sections of Platform EI 118' W Side	3	27JUN13	01JUL13	4,206.24																		
24911720	Fab 5 sections of Platform EI 118' W Side NTC	20	02JUL13	29JUL13	50,229.60																		
24911740	Fin Dsgn Power/Ground/Light @ Platform WSide NTC	20	02JUL13	29JUL13	31,177.60																		
24911760	Procurements Power/Ground/Light @ Platform W NTC	1	30JUL13	30JUL13	5,400.00																		
24911780	Design 42 Ckt Panel NTC/30 Ckt Panel Gallery	25	30JUL13	02SEP13	32,551.20																		

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	Fiscal Year										
						FY10	FY11	FY12	FY13	FY14	FY15					
24911790	Prep procd 42 Ckt Panel NTC/30 Ckt Panel Gallery	3	03SEP13	05SEP13	4,590.88				LANGELA =08 ; EA/SB =24							
24911800	Procuremnt 42 Ckt Panel NTC/30 Ckt Panel Gallery	1	06SEP13	06SEP13	81,000.00				M&S =60,000 ;							
24911940	Prel Dsgn New Pmp Duct-Tank Farm/TMB Sys/Gas Sol	10	06SEP13	19SEP13	24,934.40				LANGELA =80 ; EA/SB =80							
24911950	Fin Dsgn New Pmp Duct-Tank Farm/TMB Sys/Gas Sol	10	20SEP13	03OCT13	25,121.36				LANGELA =80 ; EA/SB =80							
24911960	Prep proc EQ Reinst New Pmp Duct-Tank Farm/TMB S	5	04OCT13	10OCT13	14,371.20				LANGELA =80 ;							
24911970	Proc EQ Reinst New Pmp Duct-Tank Farm/TMB Sys/Ga	1	11OCT13	11OCT13	19,460.00				M&S =14,000 ;							
Re-Installation																
24910049	BEGIN RE-INSTALLATION OF DIAGNOSTICS	0		11OCT13*	0.00											
24910050	re-install rack 419 - UCLA Reflectometer	6	14OCT13	21OCT13	10,247.60				EM/TB =96 ; 41=200							
24910100	re-install rack 431-435 - VV T/C & magnetics	30	22OCT13	02DEC13	62,035.44				LANGELA =64 ; EM/TB =480							
									M&S =1,000 ;							
24910200	re-install rack 440 - SPRED	8	03DEC13	12DEC13	14,547.00				EM/TB =120 ; M&S =1,500							
24910250	re-install rack 441-445 - VV ion gages, RGA	20	13DEC13	09JAN14	38,776.00				EM/TB =360 ; M&S =1,000							
24910300	re-install rack 447-448 - Fiber Optics	10	10JAN14	23JAN14	13,157.00				EM/TB =120 ; M&S =500							
24910350	re-install rack 449 - Glow Discharge	15	24JAN14	13FEB14	29,094.00				EM/TB =240 ; M&S =3,000							
24910420	re-install rack 488-Dep monitor/fast xray	10	14FEB14	27FEB14	20,226.80				EM/TB =168 ; M&S =2,000							
24910490	re-install rack - PSI Camera	10	28FEB14	13MAR14	19,396.00				EM/TB =160 ; M&S =2,000							
24910540	re-install rack - Ultra Fast X-ray Camera	10	14MAR14	27MAR14	19,396.00				EM/TB =160 ; M&S =2,000							
24910590	re-install rack-Transmission Grating Spectrometr	7	28MAR14	07APR14	13,577.20				EM/TB =112 ; M&S =1,400							
24910620	re-install rack - IR Camera at Bay L	4	08APR14	11APR14	8,036.40				EM/TB =64 ; 41=1,000							
24910650	re-install rack - IR Camera at Bay K	15	14APR14	02MAY14	29,094.00				EM/TB =240 ; M&S =3,000							
24910680	re-install rack-Reconfigure AC & Diagnostic tray	30	14OCT13	22NOV13	79,305.84				LANGELA =64 ; EA/SB =480							
									M&S =1,000 ;							
24910740	re-install Equipment Bay J - Two gas injectors	10	25NOV13	06DEC13	19,396.00				EM/TB =160 ; M&S =2,000							
24910790	re-install Equipment Bay J - Reflectomer	20	09DEC13	03JAN14	45,540.40				LANGELA =40 ; EM/TB =320							
									M&S =4,000 ;							
24910840	re-install Equipment Bay J - Bolometer	20	06JAN14	31JAN14	45,540.40				LANGELA =40 ; EM/TB =320							
									M&S =4,000 ;							
24910890	re-install Equipment Bay J - RF Prove	20	03FEB14	28FEB14	45,540.40				LANGELA =40 ; EM/TB =320							
									M&S =4,000 ;							
24910940	re-install Equipment Bay J - S-Flip	15	03MAR14	21MAR14	45,540.40				LANGELA =40 ; EM/TB =320							
									M&S =4,000 ;							
24910990	re-install Equipment Bay J - SSNPA	20	24MAR14	18APR14	45,540.40				LANGELA =40 ; EM/TB =320							
									M&S =4,000 ;							
24911040	re-install Equipment Bay J - Re-entrant Window	1	21APR14	21APR14	969.80				EM/TB =08 ; M&S =100							
24911190	re-install Equipment NB2 Duct-IR Window t/Camera	3	22APR14	24APR14	2,909.40				EM/TB =24 ; M&S =300							
24911240	reinstall Equip NB2 Duct-Transm Grating Spectro	20	25APR14	22MAY14	45,540.40				LANGELA =40 ; EM/TB =320							
									M&S =4,000 ;							
24911290	reinstall EQ New pump duct-VV Ion Gages/Filament	20	23MAY14	19JUN14	45,540.40				LANGELA =40 ; EM/TB =320							
									M&S =4,000 ;							
24911380	re-install Bay L - SPRED	20	14OCT13	08NOV13	38,792.00				EM/TB =320 ; M&S =4,000							
24911450	Re-install New Pump Duct - RGA	20	11NOV13	06DEC13	38,792.00				EM/TB =320 ; M&S =4,000							
24911520	re-install Bay L - LOWEUS	20	09DEC13	03JAN14	38,792.00				EM/TB =320 ; M&S =4,000							
24911570	re-install Bay L - IR Camera	15	06JAN14	24JAN14	15,242.00				EM/TB =120 ; M&S =2,000							
24911620	re-install Bay L - Glow Discharge	20	27JAN14	21FEB14	38,792.00				EM/TB =320 ; M&S =4,000							
24911690	re-install Between Bay K/L-MPTS Beam Dump Window	1	24FEB14	24FEB14	3,051.60				EM/TB =16 ; M&S =1,000							
24911730	instl 5 sections of Platform EI 118' W Side NTC	5	25FEB14	03MAR14	21,053.60				EM/EM =40 ; EM/TB =80							
									M&S =4,000 ;							
24911770	Install Power/Ground/Light @ Platform W Side NTC	10	04MAR14	17MAR14	19,396.00				EM/TB =160 ; M&S =2,000							
24911810	Install 42 Ckt Panel NTC/30 Ckt Panel Gallery	20	18MAR14	14APR14	45,540.40				LANGELA =40 ; EM/TB =320							
									M&S =4,000 ;							

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10										FY11										FY12										FY13										FY14										FY15									
24911980	Reinstall New Pmp Duct-Tank Farm/TMB Sys/Gas So	50	15APR14	23JUN14	100,625.84																															EM//TB =800 ; EM//SM =104 ;																													
24910001	Test Cell Oversight during diag removals	114	05SEP12	21FEB13	149,536.32																															EM//SM =912 ;																													
24910002	Test Cell Oversight during diag re-installation	183	14OCT13	25JUN14	246,991.44																															EM//SM =1,464 ;																													
FY092490	FY09 Actual Cost	22*	01JAN09A	30SEP09A	143,025.00	81=143,025 ;																																																											
Job: 3200 - Water Cooling System Mods-DENAUT																																																																	
3200-003	Concep Dsn-PREPARE WORK PLANNING FORM	1	01OCT09*	01OCT09	1,319.04	41=00 ; DENAUT =08 ;																																																											
3200-009	Concep Dsn-Prep System Description	2	02OCT09	05OCT09	2,638.08	41=00 ; DENAUT =16 ;																																																											
3200-015	Concep Dsn-Prep System Requirements	3	06OCT09	08OCT09	3,957.12	41=00 ; DENAUT =24 ;																																																											
3200-021	Concep Dsn-R&D	8	09OCT09	20OCT09	13,190.40	41=00 ; DENAUT =80 ;																																																											
3200-027	Concep Dsn-Analysis	8	09OCT09	20OCT09	32,423.60	41=00 ; EA//EM =80 ; EE//EM =20 ; DENAUT =80 ;																																																											
3200-033	Concep Dsn-CDR	2	28OCT09*	29OCT09	2,638.08	41=00 ; DENAUT =16 ;																																																											
3200-034	Prelim Dsn-Lehman Review	15	15DEC09*	13JAN10	6,595.20	41=00 ; DENAUT =40 ;																																																											
3200-039	Prelim Dsn-Thermal Analysis	15	14JAN10	03FEB10	14,346.40	41=00 ; EA//EM =40 ; DENAUT =40 ;																																																											
3200-045	Prelim Dsn-Seismic Analysis	15	04FEB10	24FEB10	14,346.40	41=00 ; EA//EM =40 ; DENAUT =40 ;																																																											
3200-051	Prelim Dsn-FMEA Analysis	15	25FEB10	17MAR10	14,346.40	41=00 ; EA//EM =40 ; DENAUT =40 ;																																																											
3200-057	Prelim Dsn-Prepare NEPA Form	5	18MAR10	24MAR10	2,638.08	41=00 ; DENAUT =16 ;																																																											
3200-063	Prelim Dsn-Update Cost & Schedule Estimate	5	25MAR10	31MAR10	13,190.40	DENAUT =80 ;																																																											
3200-069	Prelim Dsn-Design Drawings	40	01APR10	26MAY10	41,186.40	41=00 ; EA//SB =160 ; EE//EM =40 ; DENAUT =80 ;																																																											
3200-075	Prelim Dsn-PDR Prep	5	27MAY10	03JUN10	6,595.20	41=00 ; DENAUT =40 ;																																																											
3200-081	Prelim Dsn-CONDUCT PDR	2	04JUN10	07JUN10	2,638.08	41=00 ; DENAUT =16 ;																																																											
3200-093	Final Design-Disposition PDR Chits	2	01JUL10*	02JUL10	2,638.08	41=00 ; DENAUT =16 ;																																																											
3200-099	Final Design-Design Drawings	92	06JUL10	11NOV10	17,361.92	41=00 ; EA//SB =80 ; EE//EM =20 ; DENAUT =20 ;																																																											
3200-105	Final Design-Update Analyses	70	12NOV10	01MAR11	14,514.80	41=00 ; EA//EM =40 ; DENAUT =40 ;																																																											
3200-111	Final Design-Update Cost & Schedule Estimate	5	02MAR11	08MAR11	13,345.60	DENAUT =80 ;																																																											
3200-117	Final Design-Prep Procurement Specs	5	09MAR11	15MAR11	6,672.80	41=00 ; DENAUT =40 ;																																																											
3200-123	Final Design-FDR Prep	5	16MAR11	22MAR11	6,672.80	41=00 ; DENAUT =40 ;																																																											
3200-129	Final Design-CONDUCT FDR	2	23MAR11	24MAR11	2,669.12	41=00 ; DENAUT =16 ;																																																											
3200-135	Pumps-Prep Requisition and procurement package	1	10OCT12*	10OCT12	0.00																															41=00 ;																													
3200-141	Pumps-SUBMIT REQ TO PROCUREMENT	1	11OCT12	11OCT12	0.00																															41=00 ;																													
3200-147	Pumps-Procurement lead time (1)	30	12OCT12	26NOV12	0.00																															41=00 ;																													
3200-153	Pumps-AWARD	1	27NOV12	27NOV12	0.00																															41=00 ;																													
3200-159	Pumps-Fabricate or delivery	30	28NOV12	16JAN13	40,500.00																															41=30,000 ;																													
3200-165	Valves, Hose, Pipe-Prep Requisition and procurem	2	03OCT12*	04OCT12	0.00																															41=00 ;																													
3200-171	Valves, Hose, Pipe-SUBMIT REQ TO PROCUREMENT	1	05OCT12	05OCT12	0.00																															41=00 ;																													
3200-177	Valves, Hose, Pipe-Procurement lead time (1)	30	08OCT12	16NOV12	0.00																															41=00 ;																													
3200-183	Valves, Hose, Pipe-AWARD	1	19NOV12	19NOV12	0.00																															41=00 ;																													
3200-189	Valves, Hose, Pipe-Fabricate or delivery	30	20NOV12	10JAN13	13,500.00																															41=10,000 ;																													
3200-195	Engineering Support	44	24JUL13*	23SEP13	12,848.92																															41=00 ; EE//EM =10 ; DENAUT =62 ;																													
3200-201	Remove Existing System	5	25MAR13*	29MAR13	13,718.32																															41=00 ; EE//TB =16 ; EM//TB =120 ;																													

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	Fiscal Year											
						FY10	FY11	FY12	FY13	FY14	FY15						
3200-207	Install Pumps	10	01OCT13*	14OCT13	16,308.80								41=00 ; EE/TB =80				
3200-213	Modify Manifold	20	15OCT13	11NOV13	49,848.00								EM/TB =80				
3200-219	Connect Lines	2	12NOV13*	13NOV13	7,764.80								41=00 ; EM/TB =480				
3200-225	Leak Check	2	14NOV13	15NOV13	3,323.20								41=2,000 ; EM/TB =48				
FY093000	FY09 Actual Cost	22*	01JAN09A	30SEP09A	5,447.00								41=00 ; EM/TB =32				
Job: 3300 - Bakeout System Mods for CSU-RAKI																	
3300-105	Bakeout- Prelim Design	145	02NOV09*	04JUN10	5,038.08								EE//EM =16 ; EA/SB =16 ; 41=00				
3300-110	Bakeout-PDR	0		04JUN10	0.00												
3300-115	Bakeout-Final Design	200	07JUN10	25MAR11	5,073.00								EE//EM =16 ; EA/SB =16				
3300-120	Bakeout-FDR	0		25MAR11	0.00												
3300-125	Bakeout-Procure Hardware	130	03OCT12*	12APR13	49,927.60								EE//EM =08 ; EA/SB =08 ; 41=35,000				
3300-130	Bakeout-Assembly	65	15APR13	12JUL13	5,881.60								EE//SM =16 ; EE//TB =32				
3300-135	Bakeout-Installation	45	15JUL13	13SEP13	9,847.20								EE//EM =20 ; EE//SM =16 ; EE//TB =32				
3300-140	Bakeout-Test	5	16SEP13	20SEP13	8,286.08								EE//EM =20 ; EE//SM =16 ; EE//TB =16				
Job: 3400 - Gas Delivery System Mods-BLANCHARD																	
3400-01	Conceptual Design-PREPARE WORK PLANNING FORM	5	01OCT09*	07OCT09	1,319.04								BLANCHARD =08				
3400-05	Conceptual Design-Prep System Description	5	08OCT09	14OCT09	2,638.08								BLANCHARD =16				
3400-09	Conceptual Design-Prep System Requirements	5	15OCT09	21OCT09	2,638.08								BLANCHARD =16				
3400-13	Conceptual Design-CDR	2	28OCT09*	29OCT09	5,276.16								BLANCHARD =32				
3400-17	Preliminary Design-Update Cost & Schedule Estima	15	25MAR10	14APR10	2,638.08								BLANCHARD =16				
3400-21	Preliminary Design-Design Drawings	25	18FEB10*	24MAR10	3,080.16								EA/SB =24				
3400-25	Preliminary Design-PDR Prep	25	15APR10	19MAY10	11,871.36								BLANCHARD =72				
3400-29	Preliminary Design-CONDUCT PDR	1	20MAY10	20MAY10	659.52								BLANCHARD =04				
3400-33	Final Design-Disposition PDR Chits	5	21MAY10	27MAY10	2,638.08								BLANCHARD =16				
3400-37	Final Design-Design Drawings	10	28MAY10	11JUN10	5,133.60								EA/SB =40				
3400-41	Final Design-Update Cost & Schedule Estimate	5	14JUN10	18JUN10	2,638.08								BLANCHARD =16				
3400-45	Final Design-FDR Prep	190	21JUN10	25MAR11	19,930.18								BLANCHARD =120				
3400-49	Final Design-CONDUCT FDR	1	28MAR11	28MAR11	667.28								BLANCHARD =04				
3400-57	Shop Fabrication	5	03OCT12*	09OCT12	810.48								EM/TB =08				
3400-61	Assembly	5	10OCT12	16OCT12	810.48								EM/TB =08				
3400-65	Installation Procedure/Oversight	10	17OCT12	30OCT12	8,412.48								BLANCHARD =48				
3400-69	Machine Installation	20	31OCT12	29NOV12	10,536.24								EM/TB =104				
3400-73	PTP Testing/Programming	10	30NOV12	13DEC12	9,814.56								BLANCHARD =56				
Job: 4100 - Center Stack Diagnostics-KAITA																	
4100-105	CDR Prep	5	19OCT09*	23OCT09	11,529.00								EE//SM =10 ; EM//SB =10 ; EE//EM =20 ; ABRAMSON =30				
4100-109	Prelim Dsn-PREPARE WORK PLANNING FORM	5	26OCT09	30OCT09	3,297.60								ABRAMSON =20				
4100-113	Prelim Dsn-Prep System Description	135	26OCT09	13MAY10	16,908.60								EE//SM =10 ; EM//SB =10 ; EE//EM =40 ; ABRAMSON =40				
4100-117	Prelim Dsn-Prep System Requirements	135	26OCT09	13MAY10	16,908.60								EE//SM =10 ; EM//SB =10 ; EE//EM =40 ; ABRAMSON =40				

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	Gantt Chart											
						FY10	FY11	FY12	FY13	FY14	FY15						
4100-121	Prelim Dsn-Update Cost & Schedule Estimate	135	26OCT09	13MAY10	10,326.00	[Gantt bar: 26OCT09-13MAY10] EE//EM =20 ; ABRAMSON =40 ;											
4100-125	Prelim Dsn-Design Drawings	135	26OCT09	13MAY10	36,919.20	[Gantt bar: 26OCT09-13MAY10] ABRAMSON =40 ; EE//EM =80 ; EA//SB =120 ;											
4100-129	Prelim Dsn-PDR Prep	10	14MAY10	27MAY10	10,326.00	[Gantt bar: 14MAY10-27MAY10] EE//EM =20 ; ABRAMSON =40 ;											
4100-133	Prelim Dsn-CONDUCT PDR	2	28MAY10	01JUN10	1,405.68	[Gantt bar: 28MAY10-01JUN10] EE//EM =04 ; ABRAMSON =04 ;											
4100-137	Final Dsn-Disposition PDR Chits	10	02JUN10	15JUN10	14,056.80	[Gantt bar: 02JUN10-15JUN10] EE//EM =40 ; ABRAMSON =40 ;											
4100-141	Final Dsn-Design Drawings	120	01OCT10*	29MAR11	43,123.60	[Gantt bar: 01OCT10-29MAR11] EE//SM =20 ; EM//SB =20 ; ABRAMSON =40 ; EE//EM =80 ; EA//SB =120 ;											
4100-145	Final Dsn-Update Cost & Schedule Estimate	120	01OCT10*	29MAR11	21,771.20	[Gantt bar: 01OCT10-29MAR11] ABRAMSON =40 ; EE//EM =80 ;											
4100-149	Final Dsn-Prep Procurement Specs	120	01OCT10*	29MAR11	10,885.60	[Gantt bar: 01OCT10-29MAR11] ABRAMSON =20 ; EE//EM =40 ;											
4100-153	Final Dsn-FDR Prep	15	30MAR11	19APR11	20,894.80	[Gantt bar: 30MAR11-19APR11] EE//EM =40 ; ABRAMSON =80 ;											
4100-157	Final Dsn-CONDUCT FDR	2	20APR11	21APR11	1,422.20	[Gantt bar: 20APR11-21APR11] EE//EM =04 ; ABRAMSON =04 ;											
4100-161	Wire/Cables-Prep Requisition and procurement pac	15	02APR12*	20APR12	33,246.80	[Gantt bar: 02APR12-20APR12] EE//EM =40 ; EM//SB =40 ; EE//SM =40 ; EM//EM =80 ;											
4100-165	Wire/Cables-SUBMIT REQ TO PROCUREMENT	5	23APR12	27APR12	7,288.80	[Gantt bar: 23APR12-27APR12] EE//EM =20 ; EM//EM =20 ;											
4100-169	Wire/Cables-Procurement lead time (1)	25	30APR12	04JUN12	0.00	[Gantt bar: 30APR12-04JUN12]											
4100-173	Wire/Cables-AWARD	1	05JUN12	05JUN12	7,288.80	[Gantt bar: 05JUN12-05JUN12] EE//EM =20 ; EM//EM =20 ;											
4100-177	Wire/Cables-Fabricate or delivery	130	06JUN12	10DEC12	76,559.79	[Gantt bar: 06JUN12-10DEC12] 41=19,000 ; EE//SM =120 ; EM//SB =240 ;											
4100-181	Coils w/mandrelsPrep Requisition and procurement	15	02APR12*	20APR12	24,893.70	[Gantt bar: 02APR12-20APR12] EE//EM =10 ; EM//SB =20 ; EE//SM =40 ; EM//EM =80 ;											
4100-185	Coils w/mandrelsSUBMIT REQ TO PROCUREMENT	5	23APR12*	27APR12	3,644.40	[Gantt bar: 23APR12-27APR12] EE//EM =10 ; EM//EM =10 ;											
4100-189	Coils w/mandrelsProcurement lead time (1)	25	30APR12	04JUN12	0.00	[Gantt bar: 30APR12-04JUN12]											
4100-193	Coils w/mandrelsAWARD	1	05JUN12	05JUN12	0.00	[Gantt bar: 05JUN12-05JUN12]											
4100-197	Coils w/mandrelsFabricate or delivery	130	06JUN12	10DEC12	122,224.50	[Gantt bar: 06JUN12-10DEC12] 41=40,000 ; EM//EM =40 ; EM//SB =120 ; EE//SM =160 ; EM//SM =120 ;											
4100-201	Fab/Assy Procedure	20	06JUN12	03JUL12	18,495.60	[Gantt bar: 06JUN12-03JUL12] EE//EM =12 ; EE//SM =20 ; EM//EM =60 ; EM//SB =20 ;											
4100-205	Shop Fabrication	65	11DEC12	19MAR13	123,212.40	[Gantt bar: 11DEC12-19MAR13] EE//EM =10 ; EM//SM =40 ; EM//EM =180 ; EM//SB =240 ; EE//SM =300 ;											
4100-209	Assembly	65	20MAR13	18JUN13	120,447.12	[Gantt bar: 20MAR13-18JUN13] EE//EM =10 ; EM//EM =132 ; EE//SM =280 ; EM//SB =360 ;											
4100-213	Installation Procedure	15	05JUL12	25JUL12	29,881.60	[Gantt bar: 05JUL12-25JUL12] EE//SM =20 ; EE//EM =40 ; EM//SB =40 ; EM//EM =80 ;											
4100-217	Machine Installation	30	19JUN13	30JUL13	68,988.60	[Gantt bar: 19JUN13-30JUL13] EE//EM =20 ; EM//EM =40 ; EM//SB =180 ; EE//SM =200 ;											
4100-221	PTP Testing	15	31JUL13	20AUG13	36,326.80	[Gantt bar: 31JUL13-20AUG13] EE//EM =20 ; EM//EM =40 ; EE//SM =100 ; EM//TB =80 ;											
FY094000	FY09 Actual Cost	22*	01JAN09A	30SEP09A	11,333.00	31=11,333 ;											
Job: 5000 - CSU Power Systems-RAKI																	
AC Power																	
510-001	51- AC Power -Prelim Dsn	140	02NOV09*	27MAY10	2,647.38	[Gantt bar: 02NOV09-27MAY10] RAKI =08 ; VANKIRK =09 ;											
510-005	51- AC Power -Final Dsn	206	28MAY10	28MAR11	2,665.35	[Gantt bar: 28MAY10-28MAR11] RAKI =08 ; VANKIRK =09 ;											
510-009	51- AC Power -Procurement	170	10AUG12*	17APR13	12,094.41	[Gantt bar: 10AUG12-17APR13] 41=9,000 ;											
510-013	51- AC Power -Installation	320	18APR13	09JUL14	36,736.08	[Gantt bar: 18APR13-09JUL14] EE//EM =40 ; EA//SB =20 ; EE//SM =80 ; EE//TB =120 ; 41=00 ;											
510-017	51- AC Power -Test&Commission	65	10JUL14	08OCT14	19,175.44	[Gantt bar: 10JUL14-08OCT14] EE//EM =32 ; EE//SM =40 ; EE//TB =56 ;											
AC/DC Converters																	
520-001	52 - AC/DC Converters -Prelim Dsn	140	02NOV09*	27MAY10	314.88	[Gantt bar: 02NOV09-27MAY10] RAKI =01 ; VANKIRK =01 ;											
520-005	52 - AC/DC Converters -Final Dsn	203	28MAY10	23MAR11	316.99	[Gantt bar: 28MAY10-23MAR11] RAKI =01 ; VANKIRK =01 ;											
520-009	52 - AC/DC Converters -Procurement	170	10AUG12*	17APR13	17,469.71	[Gantt bar: 10AUG12-17APR13] 41=13,000 ;											

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10												FY11												FY12												FY13												FY14												FY15																																																											
520-013	52 - AC/DC Converters -Installation	320	18APR13	09JUL14	755.70																									EE//EM =01 ; EA//SB =04 EE//SM =00 ; EE//TB =00 41=00 ;																																																																																															
520-017	52 - AC/DC Converters -Test&Commission	65	10JUL14	08OCT14	38,273.60																																					EE//EM =40 ; EE//SM =80 EE//TB =160 ;																																																																																			
FCPC & TA-NTC DC Systems																																																																																																																													
531-001	531- FCPC DC Systems -Prelim Dsn	140	02NOV09*	27MAY10	55,514.40	RAKI =160 ; VANKIRK =200 ;																																																																																																																							
531-005	531- FCPC DC Systems -Final Dsn	208	28MAY10	30MAR11	55,893.92	RAKI =160 ; VANKIRK =200 ;																																																																																																																							
531-009	531- FCPC DC Systems -Procure Misc H/W	130	10AUG12*	20FEB13	56,360.77																									41=42,000 ;																																																																																															
531-013	531- FCPC DC Systems -Procure 1000MCM Cable & Tr	180	10AUG12*	01MAY13	192,215.83																									41=143,000 ;																																																																																															
531-017	531- FCPC DC Systems -Install Tray	65	02MAY13	31JUL13	20,250.00																									41=15,000 ;																																																																																															
531-021	531- FCPC DC Systems -Procure OH Reactors	130	10AUG12*	20FEB13	134,192.31																									41=100,000 ;																																																																																															
531-025	531- FCPC DC Systems -Procure OH Reactor Instl	65	21FEB13	22MAY13	54,000.00																									41=40,000 ;																																																																																															
531-029	531- FCPC DC Systems - Instl cable & misc h/w	130	01AUG13*	29JAN14	1,039,990.39																									EE//EM =568 ; EA//SB =400 EE//SM =520 ; EE//TB =1,240 41=250,000 ; 48=285,000																																																																																															
531-033	531- FCPC DC Systems -Test&Commission	65	30JAN14	30APR14	101,503.52																									EE//EM =168 ; EE//SM =200 EE//TB =320 ;																																																																																															
532-001	532- TA-NTC DC Systems -Prelim Dsn	140	02NOV09*	27MAY10	5,599.20	RAKI =08 ; VANKIRK =32 ;																																																																																																																							
532-005	532- TA-NTC DC Systems -Final Dsn	200	28MAY10	18MAR11	5,636.40	RAKI =08 ; VANKIRK =32 ;																																																																																																																							
532-009	532- TA-NTC DC Systems -Procurement	170	10AUG12*	17APR13	20,157.35																									41=15,000 ;																																																																																															
532-013	532- TA-NTC DC Systems -Installation	320	18APR13	09JUL14	86,443.89																									EE//EM =32 ; EA//SB =64 EE//SM =80 ; EE//TB =160 41=30,000 ;																																																																																															
532-017	532- TA-NTC DC Systems -Test&Commission	65	10JUL14	08OCT14	5,020.34																																					EE//EM =09 ; EE//SM =09 EE//TB =16 ;																																																																																			
Control & Protection System																																																																																																																													
541-001	541 - Electrical Interlocks -Prelim Dsn	140	02NOV09*	27MAY10	88,572.24	ZHAO =384 ; VANKIRK =132 ;																																																																																																																							
541-005	541 - Electrical Interlocks -Final Dsn	200	28MAY10	18MAR11	89,160.00	ZHAO =384 ; VANKIRK =132 ;																																																																																																																							
541-009	541 - Electrical Interlocks -Procurement PLC	170	03AUG12*	10APR13	136,980.00																									41=102,000 ;																																																																																															
541-013	541 - Electrical Interlocks -Installation	320	11APR13	02JUL14	435,801.66																									EE//EM =776 ; EA//SB =264 EE//SM =120 ; EE//TB =1,200 41=75,000 ;																																																																																															
541-017	541 - Electrical Interlocks -Test&Commission	65	03JUL14	01OCT14	31,202.40																									EE//EM =40 ; EE//SM =40 EE//TB =160 ;																																																																																															
542-001	542 - Kirk Key Interlocks -Prelim Dsn	140	02NOV09*	27MAY10	4,059.12	RAKI =08 ; VANKIRK =20 ;																																																																																																																							
542-005	542 - Kirk Key Interlocks -Final Dsn	195	28MAY10	11MAR11	4,085.55	RAKI =08 ; VANKIRK =20 ;																																																																																																																							
542-009	542 - Kirk Key Interlocks -Procurement	170	10JUL12*	15MAR13	20,096.47																									41=15,000 ;																																																																																															
542-013	542 - Kirk Key Interlocks -Installation	320	18MAR13	06JUN14	32,442.53																									EE//EM =40 ; EA//SB =40 EE//SM =40 ; EE//TB =120 41=00 ;																																																																																															
542-017	542 - Kirk Key Interlocks -Test&Commission	65	09JUN14	05SEP14	27,202.00																									EE//EM =40 ; EE//SM =40 EE//TB =120 ;																																																																																															
543-001	543 - Real Time Control -Prelim Dsn	140	02NOV09*	27MAY10	44,769.60	HATCHER =240 ;																																																																																																																							
543-005	543 - Real Time Control -Final Dsn	208	28MAY10	30MAR11	45,075.36	HATCHER =240 ;																																																																																																																							
543-013	543 - Real Time Control -Installation	243	05OCT12*	20SEP13	95,174.40																									EE//EM =480 ;																																																																																															
544-001	544 -PC Link/FD/FG changes -Prelim Dsn	140	02NOV09*	27MAY10	194,300.16	LAWSON =904 ; VANKIRK =200 ;																																																																																																																							
544-002	544 -PC Link/FD/FG Prototype	140	02NOV09*	27MAY10	108,900.00	41=90,000 ;																																																																																																																							
544-005	544 -PC Link/FD/FG changes -Final Dsn	198	28MAY10	16MAR11	195,579.33	LAWSON =904 ; VANKIRK =200 ;																																																																																																																							
544-009	544 -PC Link/FD/FG changes -Procure control link	130	03OCT12*	12APR13	866,700.00																									41=740,000 ;																																																																																															
544-013	544 -PC Link/FD/FG changes -Installation	320	15APR13	04JUL14	1,312,098.93																									EE//EM =2,560 ; EA//SB =400 EE//SM =80 ; EE//TB =7,200 41=10,000 ;																																																																																															
544-017	544 -PC Link/FD/FG changes -Test&Commission	65	07JUL14	03OCT14	178,078.40																									EE//EM =640 ; EE//SM =00 EE//TB =480 ;																																																																																															

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10 FY11 FY12 FY13 FY14 FY15									
						Gantt Chart (Activity Duration and Resource Allocation)									
545-001	545 - Instrumentation -Prelim Dsn	140	02NOV09*	27MAY10	17,540.76	RAKI =50 ; VANKIRK =64 ;									
545-005	545 - Instrumentation -Final Dsn	200	28MAY10	18MAR11	17,657.23	RAKI =50 ; VANKIRK =64 ;									
545-009	545 - Instrumentation -Procure Transducers	140	04SEP12*	28MAR13	308,217.64	41=229,000 ;									
545-013	545 - Instrumentation -Installation	320	29MAR13	19JUN14	238,260.58	EE//EM =208 ; EA//SB =120 ; EE//SM =128 ; EE//TB =480 ; 41=80,000 ;									
545-017	545 - Instrumentation -Test&Commission	65	20JUN14	18SEP14	67,948.24	EE//EM =120 ; EE//SM =88 ; EE//TB =280 ;									
546-001	546 - Coil Protection -Prelim Dsn	140	02NOV09*	27MAY10	26,354.40	MARSALA =100 ; VANKIRK =60 ;									
546-005	546 - Coil Protection -Final Dsn	198	28MAY10	16MAR11	26,527.96	MARSALA =100 ; VANKIRK =60 ;									
546-009	546 - Coil Protection -Procurement	140	04SEP12*	28MAR13	10,767.43	41=8,000 ;									
546-013	546 - Coil Protection -Installation	320	29MAR13	19JUN14	116,785.37	EE//EM =280 ; EA//SB =120 ; EE//SM =160 ; EE//TB =160 ; 41=00 ;									
546-017	546 - Coil Protection -Test&Commission	65	20JUN14	18SEP14	29,916.96	EE//EM =80 ; EE//SM =32 ; EE//TB =80 ;									
Systems Design & Integration															
551-001	551 - System Design -design support, analysis, c	1,137	02NOV09*	08MAY14	342,338.10	RAKI =1.0 ; 41=45,000 ;									
551-003	551 - System DesignGeneral Prelim Dsn support	140	02NOV09*	27MAY10	75,571.20	RAKI =240 ; VANKIRK =240 ;									
551-005	551 - System Design - PDR	0		27MAY10	0.00										
551-007	551 - System DesignGeneral Final Dsn support	195	28MAY10	11MAR11	76,063.01	RAKI =240 ; VANKIRK =240 ;									
551-009	551 - System Design - FDR	0		11MAR11	0.00										
552-001	552 - System Testing -Prepare Procedures	90	01OCT13*	03FEB14	41,168.40	EE//EM =120 ; EA//SB =120 ;									
552-003	552 - System Testing -Testing	65	04FEB14	05MAY14	158,799.28	EE//EM =448 ; EE//SM =80 ; EE//TB =536 ;									
Digital Coil Protection (DCP)															
MPS-101	DCP -Requirements	140	02NOV09*	27MAY10	152,749.16	WOOLLEY =338 ; VANKIRK =376 ; SICHTA =280 ;									
MPS-106	DCP -Final Dsn	206	28MAY10	28MAR11	153,786.18	LAWSON =338 ; VANKIRK =376 ; SICHTA =280 ;									
MPS-111	DCP -Procurement	170	03OCT12*	07JUN13	402,300.00	41=298,000 ;									
MPS-116	DCP -Installation	278	10JUN13	02JUL14	439,846.36	EE//EM =1,208 ; EE//SM =432 ; EE//TB =864 ; 41=25,000 ;									
MPS-121	DCP -Test&Commission	65	03JUL14	01OCT14	193,936.40	EE//EM =140 ; EE//SM =832 ; EE//TB =184 ;									
FY095000	FY09 Actual Cost	22*	01JAN09A	30SEP09A	385,771.00	31=385,771 ;									
Job: 5501 - Coil Bus Runs-RAFTOPOULOS															
550100010	CDR	23	01OCT09*	02NOV09	0.00										
550100020	Design bus systems - Coil Bus Runs	141	03NOV09	01JUN10	102,903.60	RAFTOPOUIOS =300 ; EE//EM =240 ;									
550100030	Cad details and assemblies - Coil Bus Runs	141	03NOV09	01JUN10	29,787.00	PALUZZI =300 ;									
550100040	CDR Chit Resolution - Prelim Dsgn - Coil Bus Run	30	03NOV09*	16DEC09	0.00	CHRZANOWSKI =00 ; EA//SB =00 ;									
550100050	Update Cost /Sched Estimate - Coil Bus Runs	5	17DEC09	23DEC09	0.00	CHRZANOWSKI =00 ;									
550100060	PDR Prep - Coil Bus Runs	105	04JAN10	28MAY10	0.00	CHRZANOWSKI =00 ; EA//SB =00 ;									
550100070	CONDUCT PDR - Coil Bus Runs	1	01JUN10	01JUN10	0.00	CHRZANOWSKI =00 ;									
550100080	Complete Dsgn bus sys - Coil Bus Runs	200	02JUN10	22MAR11	103,597.40	RAFTOPOUIOS =300 ; EE//EM =240 ;									
550100090	Comp Cad details & assemblies - Coil Bus Runs	200	02JUN10	22MAR11	39,982.80	PALUZZI =400 ;									
550100100	Bus Lorentz Forces/Supp Stress Analysis - CBR	200	02JUN10	22MAR11	28,092.28	EA//EM =144 ;									
550100110	PDR Chit Resolution - Final Dsgn - Coil Bus Run	30	03JAN11*	11FEB11	0.00	CHRZANOWSKI =00 ; EA//SB =00 ;									
550100120	Update Cost/Sched Estimate - Coil Bus Runs	3	09FEB11	11FEB11	0.00	CHRZANOWSKI =00 ;									

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10												FY11												FY12												FY13												FY14												FY15											
550100130	FDR Prep - Coil Bus Runs	128	14SEP10	22MAR11	0.00													CHRZANOWSKI =00 ; EA/SB =00																																																											
550100140	CONDUCT FDR - Coil Bus Runs	1	22MAR11	22MAR11	0.00													CHRZANOWSKI =00																																																											
550100150	Prep Req & Procurement Pckg - Coil Bus Runs	2	24SEP12*	25SEP12	0.00																									CHRZANOWSKI =00 ;																																															
550100160	Submit Req to Procurement - Coil Bus Runs	1	26SEP12*	26SEP12	0.00																									CHRZANOWSKI =00 ;																																															
550100170	Procurement Lead Times - Coil Bus Runs	20	27SEP12	24OCT12	0.00																																																																								
550100180	Award - Coil Bus Runs	1	25OCT12	25OCT12	0.00																																																																								
550100190	Copper - Coil Bus Runs	96	26OCT12*	20MAR13	28,316.80																									MEIGHAN =08 ; M&S =5,000												MEIGHAN =08 ; M&S =20,000																																			
550100200	Insulation & epoxy - Coil Bus Runs	96	26OCT12*	20MAR13	14,816.80																									MEIGHAN =08 ; M&S =1,000												MEIGHAN =08 ; M&S =10,000																																			
550100210	Hardware - Coil Bus Runs	96	26OCT12*	20MAR13	8,066.80													MEIGHAN =08 ; M&S =5,000																																																											
550100220	Braze material - Coil Bus Runs	96	26OCT12*	20MAR13	2,666.80													MEIGHAN =08 ; M&S =1,000																																																											
550100230	G-10/Phenolic - Coil Bus Runs	96	26OCT12*	20MAR13	21,566.80																									MEIGHAN =08 ; M&S =15,000																																															
550100240	Miscellaneous Material - Coil Bus Runs	96	26OCT12*	20MAR13	22,883.60																									MEIGHAN =16 ; M&S =15,000																																															
550100250	TF air-cooled[From TC water fall to bottom mach]	140	21MAR13	02OCT13	82,440.50													RAFTOPOUIOS =24 ; MEIGHAN =24												TECH SHOP =500 ; MACHINES =200																																															
550100260	OH Coax [Inside umbrella]	140	21MAR13	02OCT13	55,333.47													RAFTOPOUIOS =40 ; MEIGHAN =24												TECH SHOP =240 ; MACHINES =160																																															
550100270	Reposition & terminate OH cable to bottom mach	140	21MAR13	02OCT13	19,307.94													RAFTOPOUIOS =16 ; MEIGHAN =24												TECH SHOP =80 ; MACHINES =00												STOCKRM =500 ; M&S =1,000																																			
550100280	Inner PF coils [U/L PF1a, 1b and 1c]	140	21MAR13	02OCT13	78,386.65													RAFTOPOUIOS =24 ; MEIGHAN =24												TECH SHOP =500 ; MACHINES =160												STOCKRM =500 ; M&S =5,000																																			
550100290	CHI/bakeout [Lower ring bus & ring to VV bus	140	21MAR13	02OCT13	75,612.95													RAFTOPOUIOS =24 ; MEIGHAN =24												TECH SHOP =400 ; MACHINES =166												STOCKRM =500 ; M&S =5,000																																			

Job: 6100 - Control Sys Data Acquisition -SICHTA

6100-003	WBS Mgmt & Interfaces Coordination	1,149	01OCT09*	24APR14	30,667.01																																					41=00 ; SICHTA																							
6100-013	Conc dsn-Assess General Workscope	10	01OCT09*	14OCT09	2,368.16	41=00 ; SICHTA =16 ;																																																											
6100-023	Conc dsn-Draft System Documents	10	15OCT09	28OCT09	3,552.24	41=00 ; SICHTA =24 ;																																																											
6100-033	Conc dsn-Pre-Analysis of Control System (PCS)	5	15OCT09	21OCT09	4,144.28	41=00 ; MASTROV =28 ;																																																											
6100-043	Conc dsn-Pre-Analysis of CAMAC upgrades	5	15OCT09	21OCT09	3,552.24	41=00 ; SICHTA =24 ;																																																											
6100-053	Conc dsn-Pre-Analysis of DAS for NSTX diag upgrd	5	15OCT09	21OCT09	4,736.32	41=00 ; TCHILIN =32 ;																																																											
6100-063	Conc dsn-Pre-Analysis of GIS rack move per WBS 1	5	15OCT09	21OCT09	3,234.80	41=00 ; EC//SB =08 ;												SICHTA =16 ;																																															
6100-073	Conc dsn-PPPL CDR prep	5	20OCT09*	26OCT09	3,552.24	41=00 ; SICHTA =24 ;																																																											
6100-083	Conc dsn-Write System Documents	10	27OCT09	09NOV09	3,552.24	41=00 ; SICHTA =24 ;																																																											
6100-093	Conc dsn-Update GRD	20	10NOV09	09DEC09	1,184.08	41=00 ; SICHTA =08 ;																																																											
6100-103	Conc dsn-SC Review prep	10	02DEC09*	15DEC09	5,920.40	41=00 ; SICHTA =40 ;																																																											
6100-113	Prel Dsn-Disposition SC Review & CDR Chits	20	16DEC09	21JAN10	1,480.10	41=00 ; SICHTA =10 ;																																																											
6100-123	Prel Dsn-Assess workscope changes	10	22JAN10	04FEB10	4,736.32	41=00 ; SICHTA =32 ;																																																											
6100-133	Prel Dsn-Analyze & proto PCS changes	20	05FEB10	04MAR10	8,880.60	41=00 ; MASTROV =60 ;																																																											
6100-143	Prel Dsn-Analyze CAMAC upgrades	60	05FEB10	29APR10	4,418.88	41=00 ; EC//SB =08 ;												SICHTA =24 ;																																															
6100-153	Prel Dsn-Analyze Cntr Stk diags data acq	20	05FEB10	04MAR10	3,552.24	41=00 ; SICHTA =24 ;																																																											
6100-163	Prel Dsn-Analyze DAS for NSTX diags upgrades	30	05FEB10	18MAR10	5,920.40	41=00 ; TCHILIN =40 ;																																																											
6100-173	Prel Dsn-Analyze NTC GIS rack moves per WBS 1.3.	20	05FEB10	04MAR10	8,520.32	41=00 ; EC//SB =24 ;												MASSRY =40 ;																																															
6100-183	Prel Dsn-Update System documents	10	05MAR10	18MAR10	3,552.24	41=00 ; SICHTA =24 ;																																																											

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10												FY11												FY12												FY13												FY14												FY15											
6100-193	Prel Dsn-PDR Prep	5	17MAY10*	21MAY10	8,880.60	41=00 ; SICHTA =60 ;																																																																							
6100-203	Fnl Dsn-Disposition PDR Chits	30	24MAY10	06JUL10	1,480.10	41=00 ; SICHTA =10 ;																																																																							
6100-213	Fnl Dsn-Assess workscope changes	10	07MAR11*	18MAR11	4,792.00	41=00 ; SICHTA =32 ;																																																																							
6100-223	Fnl Dsn-Delay design for NSTX run support	1	21MAR11*	21MAR11	149.75	41=00 ; SICHTA =01 ;																																																																							
6100-233	Fnl Dsn-PCS Software design & proto	30	22MAR11	02MAY11	11,980.00	41=00 ; MASTROV =80 ;																																																																							
6100-243	Fnl Dsn-CAMAC Memory PCB design	30	22MAR11	02MAY11	8,073.50	41=00 ; WERTENB =10 ; EC//SB =60 ;																																																																							
6100-253	Fnl Dsn-CAMAC Replacement design & proto	115	22MAR11	31AUG11	51,510.00	41=24,000 ; TCHILIN =120 ; 43=2,000 ;																																																																							
6100-263	Fnl Dsn-Cntr Stk diags data acq design	10	22MAR11	04APR11	6,710.40	41=00 ; EA//SB =24 ; SICHTA =24 ;																																																																							
6100-273	Fnl Dsn-DAS upgrade for NSTX diagnostics	55	22MAR11	07JUN11	3,594.00	41=00 ; TCHILIN =24 ;																																																																							
6100-283	Fnl Dsn-I&C effort due to NTC GIS rack move	55	22MAR11	07JUN11	8,620.40	41=00 ; EC//SB =24 ; MASSRY =40 ;																																																																							
6100-293	Fnl Dsn-ECN & new drawings	53	08JUN11	22AUG11	37,133.00	41=00 ; EC//SB =60 ; MASSRY =100 ; EA//SB =120 ;																																																																							
6100-303	Fnl Dsn-Update System documents	10	23AUG11	06SEP11	3,594.00	41=00 ; SICHTA =24 ;																																																																							
6100-313	Fnl Dsn-FDR Prep	5	01SEP11*	08SEP11	8,985.00	41=00 ; SICHTA =60 ;																																																																							
6100-323	Fnl Dsn-Disposition FDR Chits	30	09SEP11	20OCT11	2,423.93	41=00 ; SICHTA =16 ;																																																																							
6100-333	Fnl Dsn-Network Design	30	23AUG11	04OCT11	6,791.30	41=00 ; HENDERS =16 ; EC//SB =40 ;																																																																							
6100-343	Procure-Wait for I&C Procurement Start	1	03OCT12*	03OCT12	157.33																																																																								
6100-353	Procure-CAMAC Replacement equipment	60	04OCT12	07JAN13	84,775.92																																																																								
6100-363	Procure-CAMAC Memory module	90	04OCT12	18FEB13	25,622.24																																																																								
6100-373	Procure-Networking equipment & fiber optics	40	04OCT12	30NOV12	99,780.88																																																																								
6100-383	Procure-GIS rack-move I&C fiber optics & equip.	30	04OCT12	14NOV12	25,776.96																																																																								
6100-393	Fabr/Program-Wait for I&C Fabrication Start (per	1	02SEP13*	02SEP13	157.33																																																																								
6100-403	Fabr/Program-I&C Peer Review	5	03SEP13	09SEP13	4,236.52																																																																								
6100-413	Fabr/Program-PCS Infrastructure code & debug	60	10SEP13	02DEC13	6,411.10																																																																								
6100-423	Fabr/Program-PSRTC code & debug	30	03DEC13	13JAN14	12,900.80																																																																								
6100-433	Fabr/Program-Update PSRTC Simulation models	30	10SEP13	21OCT13	14,831.32																																																																								
6100-443	Fabr/Program-PCS code & debug	30	03DEC13	13JAN14	6,450.40																																																																								
6100-453	Fabr/Program-CAMAC replacement - local software	90	03SEP13	06JAN14	19,246.40																																																																								
6100-463	Fabr/Program-CAMAC replacement - MDSplus changes	20	07JAN14	03FEB14	6,450.40																																																																								
6100-473	Fabr/Program-Cntr Stk diags data acq changes	10	03SEP13	16SEP13	2,517.28																																																																								
6100-483	Fabr/Program-CAMAC Replacement systems fab.	60	03SEP13	25NOV13	13,422.20																																																																								
6100-493	Fabr/Program-CAMAC Memory module fab.	60	03SEP13	25NOV13	22,188.80																																																																								
6100-503	Fabr/Program-PCS - Support Transrex Firing Gener	20	14JAN14	10FEB14	6,450.40																																																																								
6100-513	Fabr/Program-DAS programming for NSTX diags upgd	60	04FEB14	28APR14	3,870.24																																																																								
6100-523	Instl-Wait for I&C Installation Start (per NSTX	1	01OCT13*	01OCT13	161.26																																																																								
6100-533	Instl-CAMAC Replacement systems install	60	02OCT13	24DEC13	23,775.00																																																																								
6100-543	Instl-CAMAC Memory install	10	02OCT13	15OCT13	3,178.56																																																																								
6100-553	Instl-Networking equipment & fiber optics	60	02OCT13	24DEC13	33,431.68																																																																								
6100-563	Instl-install I&C Thermocouple equipment	5	02OCT13	08OCT13	3,178.56																																																																								

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10										FY11										FY12										FY13										FY14										FY15									
6100-573	Instl-Install I&C due to NTC GIS rack relocation	60	02OCT13	24DEC13	37,234.68																					41=00 ; EA/SB =40 ; MASSRY =48 ; EC/SB =60 ; EE/SB =120																																							
6100-583	Test-CS Infrastructure tests	30	14JAN14	24FEB14	14,385.60																					41=00 ; EC/SB =08 ; EC/TB =24 ; EE/EM =24 ; MASTROV =40																																							
6100-593	Test-PSRTC Simulation PTP-034	5	25FEB14	03MAR14	13,605.52																					41=00 ; MASTROV =32 ; EA/EM =40																																							
6100-603	Test-PSRTC PTP-035	5	25FEB14	03MAR14	12,340.64																					41=00 ; EA/EM =24 ; EC/TB =24 ; MASTROV =32																																							
6100-613	Test-PCS tesing	10	04MAR14	17MAR14	6,450.40																					41=00 ; HATCHER =40																																							
6100-623	Test-ISTP-001	5	18MAR14	24MAR14	11,050.56																					41=00 ; EA/EM =24 ; MASTROV =24 ; EC/TB =24																																							
6100-633	Test-CAMAC Replacement system tests	30	04FEB14	17MAR14	12,508.32																					41=00 ; EC/SB =24 ; TCHILIN =60																																							
6100-643	Test-CAMAC Memory bench tests	5	26NOV13	02DEC13	6,011.28																					41=00 ; WERTENB =08 ; EC/SB =40																																							
6100-653	Test-CAMAC Memory field tests	5	03DEC13	09DEC13	4,122.80																					41=00 ; WERTENB =08 ; EC/SB =24																																							
6100-663	Test-Cntr Stk diags testing	5	09OCT13*	15OCT13	5,758.72																					41=00 ; EC/SB =16 ; ZIMMER =24																																							
6100-673	Test-test relocated I&C GIS rack systems	5	25DEC13	31DEC13	14,396.80																					41=00 ; EC/SB =40 ; MASSRY =60																																							
6100-683	Project Ready for ISTP Target	1	01JAN14*	01JAN14	161.26																					41=00 ; SICHTA =01																																							
Job: 7100 - Project Mgt & Integration-STRYKOWSKY																																																																	
CS7000020	FY2010 Project Management	245	01OCT09*	24SEP10	704,126.52	PERRY =863 ; STRYKOWSKY =1,726 ; SIMMONS =345 ; REVIEWERS =160 ; GUZMAN =863 ; MITCHELL =863 ; 35=6,000 ; 41=5,000																																																											
CS7000031	FY2011 Project Management	249	01OCT10*	29SEP11	847,360.45	PERRY =863 ; STRYKOWSKY =1,726 ; SIMMONS =345 ; REVIEWERS =160 ; GUZMAN =863 ; MITCHELL =863 ; 35=6,000 ; WINSTON =863 ; 41=5,000																																																											
CS7000041	FY2012 Project Mangement	249	03OCT11*	28SEP12	1,049,907.90	PERRY =1,726 ; STRYKOWSKY =1,726 ; SIMMONS =345 ; REVIEWERS =160 ; GUZMAN =863 ; MITCHELL =863 ; 35=6,000 ; WINSTON =1,726 ; 41=5,000																																																											
CS7000052	ORA support	43	01AUG13*	30SEP13	125,609.60	REVIEWERS =480 ; 35=20,000																																																											
CS7000053	FY2013 Project Management	250	01OCT12*	25SEP13	1,183,505.29	PERRY =1,726 ; SIMMONS =345 ; STRYKOWSKY =1,726 ; GUZMAN =863 ; MITCHELL =863 ; REVIEWERS =160 ; 35=6,000 ; WINSTON =1,726 ; 41=5,000																																																											
CS7000054	FY2014 Project Management	250	01OCT13*	15SEP14	1,213,153.93	PERRY =1,726 ; SIMMONS =345 ; STRYKOWSKY =1,726 ; GUZMAN =863 ; MITCHELL =863 ; REVIEWERS =160 ; 35=6,000 ; WINSTON =1,726 ; 41=5,000																																																											
FY097100	FY09 Actual Cost	22*	01JAN09A	30SEP09A	625,829.00	81=625,829																																																											
Job: 7200 - Center Stack Management-DUDEK																																																																	
7200-01	FY2010 CSU Management	245	01OCT09*	24SEP10	384,421.84	DUDEK =777 ; NEUMEYER =690 ; RLM'S =621 ; 35=5,000 ; 39=10,900																																																											
7200-02	FY2011 CSU Management	245	01OCT10*	23SEP11	339,436.99	DUDEK =777 ; NEUMEYER =431 ; RLM'S =621 ; 35=5,000 ; 39=10,900																																																											
7200-03	FY2012 CSU Management	245	03OCT11*	24SEP12	333,010.84	DUDEK =690 ; NEUMEYER =431 ; RLM'S =621 ; 35=5,000 ; 39=10,900																																																											
7200-04	FY2013 CSU Management	245	01OCT12*	18SEP13	324,333.46	DUDEK =690 ; NEUMEYER =345 ; RLM'S =621 ; 35=5,000 ; 39=10,900																																																											

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10										FY11										FY12										FY13										FY14										FY15																																																	
7200-05	FY2014 CSU Management	245	01OCT13*	08SEP14	332,422.84																					DUDEK =690 ; NEUMEYER =345 ; RLM'S =621 ; 35=5,000 ; 39=10,900 ;																																																																															
Job: 7300 - NB2 Management-STEVENSON																																																																																																									
7300-01	FY2010 NB2 Management	245	01OCT09*	24SEP10	192,695.82											STEVENSON =860 ; VONHALLE =173 ;																																																																																									
7300-02	FY2010 NB2 RLM's support of reviews	10	17MAY10*	28MAY10	82,608.00											RLM'S =160 ; RLM'S =320 ;																																																																																									
7300-03	FY2010 NB2 RLM's support of reviews	10	10JAN11*	21JAN11	83,579.20											RLM'S =160 ; RLM'S =320 ;																																																																																									
7300-11	FY2011 NB2 Management	245	01OCT10*	23SEP11	194,958.09											STEVENSON =860 ; VONHALLE =173 ;																																																																																									
7300-12	FY2011 NB2 RLM's support of reviews	10	01JUN11*	14JUN11	83,579.20											RLM'S =160 ; RLM'S =320 ;																																																																																									
7300-13	FY2011 NB2 RLM's support of reviews	10	09JAN12*	20JAN12	85,668.80											RLM'S =160 ; RLM'S =320 ;																																																																																									
7300-21	FY2012 NB2 Management	245	03OCT11*	24SEP12	267,154.45											STEVENSON =1,208 ; VONHALLE =173 ;																																																																																									
7300-22	FY2012 NB2 RLM's support of reviews	10	01JUN12*	14JUN12	85,668.80											RLM'S =160 ; RLM'S =320 ;																																																																																									
7300-23	FY2012 NB2 RLM's support of reviews	10	15JAN13*	28JAN13	87,808.00											RLM'S =160 ; RLM'S =320 ;																																																																																									
7300-31	FY2013 NB2 Management	245	01OCT12*	18SEP13	273,824.68											STEVENSON =1,208 ; VONHALLE =173 ;																																																																																									
7300-32	FY2013 NB2 RLM's support of reviews	10	03JUN13*	14JUN13	87,808.00											RLM'S =160 ; RLM'S =320 ;																																																																																									
7300-33	FY2013 NB2 RLM's support of reviews	10	15JAN14*	28JAN14	90,003.20											RLM'S =160 ; RLM'S =320 ;																																																																																									
7300-35	FY2014 NB2 Management	245	01OCT13*	08SEP14	280,674.44											STEVENSON =1,208 ; VONHALLE =173 ;																																																																																									
FY092410	FY09 Actual Cost	22*	01JAN09A	30SEP09A	63,263.00	81=63,263 ;																																																																																																			
Job: 7400 - Health Physics Support-STEVENSON																																																																																																									
740000100	FY2010 NBI Decon HP Technical Support	249	01OCT09*	30SEP10	674,929.80											HP TECH =3,452 ; M&S =10,000 ; 43=10,000 ; 31=100,000 ;																																																																																									
740000110	FY2011 NBI Decon HP Technical Support	250	01OCT10*	30SEP11	678,845.88											HP TECH =3,452 ; M&S =10,000 ; 43=10,000 ; 31=100,000 ;																																																																																									
740000115	FY2011 EQ Removal & Relocation HP Technical Supp	129	03JAN11*	01JUL11	360,916.80											HP TECH =2,720 ;																																																																																									
740000120	FY2012 NBI Decon HP Technical Support	249	03OCT11*	28SEP12	695,906.52											HP TECH =3,452 ; M&S =10,000 ; 43=10,000 ; 31=100,000 ;																																																																																									
740000125	FY2013 NBI Decon HP Technical Support	252	01OCT12*	27SEP13	356,621.66											HP TECH =1,726 ; M&S =5,000 ; 43=5,000 ; 31=50,000 ;																																																																																									
740000130	FY2014 NBI Decon HP Technical Support	252	01OCT13*	17SEP14	365,545.40											HP TECH =1,726 ; M&S =5,000 ; 43=5,000 ; 31=50,000 ;																																																																																									
JOB: 7700 - NSTX-U HP Allocations-STRYKOWSKY																																																																																																									
CS9500070	NSTX Upgrade HP Allocations FY10	249	01OCT09*	30SEP10	453,000.00	81=453,000 ;																																																																																																			
CS9500080	NSTX Upgrade HP Allocations FY11	250	01OCT10*	30SEP11	434,000.00											81=434,000 ;																																																																																									
CS9500090	NSTX Upgrade HP Allocations FY12	249	03OCT11*	28SEP12	434,000.00											81=434,000 ;																																																																																									
CS9500100	NSTX Upgrade HP Allocations FY13	253	01OCT12*	30SEP13	434,000.00											81=434,000 ;																																																																																									
CS9500110	NSTX Upgrade HP Allocations FY14	253	01OCT13*	18SEP14	434,000.00											81=434,000 ;																																																																																									
Job: 7710 - Upgrade Allocations-STRYKOWSKY																																																																																																									
7710-10	NSTX Upgrade Direct Allocations FY10	249	01OCT09*	30SEP10	299,000.00	81=299,000 ;																																																																																																			
7710-11	NSTX Upgrade Direct Allocations FY11	250	01OCT10*	30SEP11	31,000.00											81=31,000 ;																																																																																									
7710-12	NSTX Upgrade Direct Allocations FY12	249	03OCT11*	28SEP12	31,000.00											81=31,000 ;																																																																																									
7710-13	NSTX Upgrade Direct Allocations FY13	253	01OCT12*	30SEP13	31,000.00											81=31,000 ;																																																																																									
7710-14	NSTX Upgrade Direct Allocations FY14	253	01OCT13*	18SEP14	31,000.00											81=31,000 ;																																																																																									
FY09NNUL	FY09 Actual Cost	22*	01JAN09A	30SEP09A	158,969.00	81=158,969 ;																																																																																																			
FY09NNUL8	FY09 Actual Cost	22*	01JAN09A	30SEP09A	367,345.00	81=367,345 ;																																																																																																			

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10										FY11										FY12										FY13										FY14										FY15									
						Q1		Q2		Q3		Q4		Q1		Q2		Q3		Q4		Q1		Q2		Q3		Q4		Q1		Q2		Q3		Q4		Q1		Q2		Q3		Q4																					
Job; 8200 - CS & Coil Sprt Struc Install- VIOLA																																																																	
Management & Documentation																																																																	
8200-024	BEGIN UPGRADE OUTAGE	0		29AUG12	0.00																																																												
8200-025	Mobilize crews	0		29AUG12	0.00																																																												
8200-031	Opening Duration	400	30AUG12*	25MAR14	0.00																																																												
8200-037	Shop Fabrication oversight 20% FTE for duration	400	30AUG12*	25MAR14	112,905.94																																																												
8200-043	Shop Fabrication support 1.5 FTE for duration	400	30AUG12	25MAR14	631,341.24																																																												
8200-049	Assembly oversight .75 FTE	400	30AUG12	25MAR14	423,397.26																																																												
8200-055	OT for efficiency (2 crews 1 weekend a month)	400	30AUG12	25MAR14	84,178.83																																																												
8200-061	MISC M&S \$250 per day* 2 crews * 75 weeks	400	30AUG12	25MAR14	258,594.75																																																												
8200-067	PREPARE WORK PLANNING FORM	3	02NOV09*	04NOV09	3,957.12																																																												
8200-073	Fab/AssyInstallation Procedure	20	01OCT10*	28OCT10	26,691.20																																																												
Diagnostic Catalog																																																																	
8200-079	Perform bay by bay catalogue and label Elect	345	02NOV09*	25MAR11	14,925.36																																																												
8200-085	Perform bay by bay catalogue and label Mech	341	02NOV09*	21MAR11	14,924.01																																																												
8200-091	Write removal procedures	90	22MAR11	27JUL11	75,201.60																																																												
8200-097	Remove RF pipes	20	30AUG12	27SEP12	50,992.00																																																												
8200-102	Write Removal & Installation Procedures	20	03OCT11*	28OCT11	12,846.40																																																												
8200-103	Safe, remove and store Elect	20	30AUG12	27SEP12	50,992.00																																																												
8200-109	Upper Tray remove and store Elect	20	28SEP12	25OCT12	52,204.20																																																												
8200-115	Remove and store Mech	30	30AUG12	11OCT12	154,124.40																																																												
8200-121	Remove section of platform	10	30AUG12	13SEP12	50,992.00																																																												
8200-127	Fiducialize Coil and Vacuum vessel	20	12OCT12	08NOV12	70,104.00																																																												
Equipment Removal																																																																	
8200-133	Remove insulation	15	30AUG12	20SEP12	38,244.00																																																												
8200-138	Write removal procedures	90	04OCT11*	16FEB12	77,078.40																																																												
8200-139	Gas Injection System	15	30AUG12	20SEP12	38,244.00																																																												
8200-145	Disconnect trim coil and lock mode coil	8	12OCT12	23OCT12	20,907.20																																																												
8200-151	Remove trim coil and lock mode coil	30	14SEP12	25OCT12	77,700.20																																																												
8200-157	Clear platform and area to remove bad TF	10	21SEP12	04OCT12	25,751.20																																																												
8200-163	Remove bad TF	5	21SEP12	27SEP12	25,496.00																																																												
8200-169	Heating Manifolds cut and remove	6	21SEP12	28SEP12	63,595.20																																																												
Upper Half																																																																	
8200-175	Umbrella Lid Remove existing	1	28SEP12	28SEP12	7,739.20																																																												
8200-181	Umbrella Lid Install New	10	01OCT12	12OCT12	26,134.00																																																												
8200-187	TF connection casting (modify)	12	05OCT12	22OCT12	38,110.80																																																												
8200-193	TF Remove turnbuckles	2	28SEP12	01OCT12	5,163.00																																																												
8200-199	VV Trim existing pads	12	24OCT12	08NOV12	31,360.80																																																												
8200-205	VV Install New pads	12	09NOV12	28NOV12	31,360.80																																																												
8200-211	Design build lifting spiders	90	01OCT10*	15FEB11	224,161.20																																																												
8200-217	PF2 lift and support	2	02OCT12	03OCT12	10,453.60																																																												
8200-223	PF2 Remove existing hardware (bolted)	3	04OCT12	08OCT12	7,840.20																																																												
8200-229	PF2 Install New plates (bolted)	8	09OCT12	18OCT12	20,907.20																																																												

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	Fiscal Year									
						FY10	FY11	FY12	FY13	FY14	FY15				
8200-235	PF2 weld new ribs	18	19OCT12	13NOV12	47,041.20							41=00 ; EM/SB =360 ;			
8200-241	PF3 remove bolted support	4	26OCT12	31OCT12	10,453.60							41=00 ; EM/SB =80 ;			
8200-247	PF3 Install new bolted support	12	07NOV12	26NOV12	31,360.80							41=00 ; EM/SB =240 ;			
8200-253	PF4, 5 Remove existing midplane columns	4	07NOV12	12NOV12	50,953.60							41=30.000 ; EM/SB =80 ;			
8200-259	PF4, 5 install support fixture	25	13NOV12	19DEC12	65,335.00							41=00 ; EM/SB =500 ;			
8200-265	PF4, 5 lift and support	12	13NOV12	30NOV12	62,721.60							41=00 ; EM/SB =480 ;			
8200-271	PF4, 5 cut and grind existing ribs	20	03DEC12	07JAN13	52,268.00							41=00 ; EM/SB =400 ;			
8200-277	PF4, 5 Install new bolted support	18	08JAN13	31JAN13	47,041.20							41=00 ; EM/SB =360 ;			
Lower Half															
8200-283	Umbrella Lid Remove existing	1	22FEB13	22FEB13	5,226.80							41=00 ; EM/SB =40 ;			
8200-289	Umbrella Lid Install New	10	25FEB13	08MAR13	26,134.00							41=00 ; EM/SB =200 ;			
8200-295	TF connection casting (modify)	12	23OCT12	07NOV12	31,360.80							41=00 ; EM/SB =240 ;			
8200-301	VV Trim existing pads	12	09NOV12	28NOV12	31,360.80							41=00 ; EM/SB =240 ;			
8200-307	VV Install New pads	12	29NOV12	14DEC12	31,360.80							41=00 ; EM/SB =240 ;			
8200-313	PF2 lower and support	2	19OCT12	22OCT12	5,226.80							41=00 ; EM/SB =40 ;			
8200-319	PF2 Remove existing hardware (bolted)	3	23OCT12	25OCT12	7,840.20							41=00 ; EM/SB =60 ;			
8200-325	PF2 Install New plates (bolted)	8	26OCT12	06NOV12	20,907.20							41=00 ; EM/SB =160 ;			
8200-331	PF2 weld new ribs	18	14NOV12	11DEC12	47,041.20							41=00 ; EM/SB =360 ;			
8200-337	PF3 remove bolted support	4	01NOV12	06NOV12	10,453.60							41=00 ; EM/SB =80 ;			
8200-343	PF3 Install new bolted support	12	07NOV12	26NOV12	31,360.80							41=00 ; EM/SB =240 ;			
8200-349	PF4, 5 support fixture	12	20DEC12	14JAN13	31,360.80							41=00 ; EM/SB =240 ;			
8200-355	PF4, 5 lower and support	12	03DEC12	18DEC12	44,860.80							41=10.000 ; EM/SB =240 ;			
8200-361	PF4, 5 cut and grind existing ribs	20	08JAN13	04FEB13	52,268.00							41=00 ; EM/SB =400 ;			
8200-367	PF4, 5 Install new bolted support	18	05FEB13	28FEB13	47,041.20							41=00 ; EM/SB =360 ;			
8200-373	PF4, 5 Install new midplane columns	12	01MAR13	18MAR13	44,860.80							41=10.000 ; EM/SB =240 ;			
8200-379	TF Install New Coil	5	25JUL13	31JUL13	93,634.00							41=50.000 ; EM/SB =200 ;			
8200-385	Reinstall platform sections	8	01AUG13	12AUG13	41,814.40							41=00 ; EM/SB =320 ;			
Cage Support															
8200-391	Modify Existing support legs	12	22JAN13	06FEB13	31,360.80							41=00 ; EM/SB =240 ;			
8200-397	Install new cage legs	10	22MAR13	04APR13	26,134.00							41=00 ; EM/SB =200 ;			
8200-403	Grout (need 4 weeks for curing)	5	05APR13	11APR13	13,067.00							41=00 ; EM/SB =100 ;			
8200-409	Install TF support ring	24	12APR13	15MAY13	62,721.60							41=00 ; EM/SB =480 ;			
Alignment Verification Coil & Vac Vsl															
8200-415	Map internal targets to external	20	03OCT12*	30OCT12	70,104.00							41=00 ; EM/EM =400 ;			
8200-421	Verify Vessel Alignment targets	20	31OCT12	29NOV12	70,104.00							41=00 ; EM/EM =400 ;			
8200-427	Verify Coil Alignment Targets	45	30NOV12	08FEB13	157,734.00							41=00 ; EM/EM =900 ;			
8200-433	Adjust vessel Internals	30	11FEB13	22MAR13	105,156.00							41=00 ; EM/EM =600 ;			
8200-439	Adjust TF Coils	10	01AUG13	14AUG13	35,052.00							41=00 ; EM/EM =200 ;			
8200-445	Adjust PF Coils	30	15AUG13	25SEP13	105,156.00							41=00 ; EM/EM =600 ;			
Install PF1a,b,c, CHI, CS Tiles,cooling etc															
8200-499	Fit and Install PF 1a, 1b, 1c U&L buswork	15	03FEB14	21FEB14	40,179.00							41=00 ; EM/SB =300 ;			
8200-505	Fit and Install OH U&L buswork	5	24FEB14	28FEB14	13,393.00							41=00 ; EM/SB =100 ;			
8200-511	Install CHI & Ring bus	8	03MAR14	12MAR14	21,428.80							41=00 ; EM/SB =160 ;			

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	FY10												FY11												FY12												FY13												FY14												FY15																							
8200-517	Install TF coil cooling system (72)	30	13MAR14	23APR14	80,358.00																																					41=00 ; EM//SB =600																																															
8200-523	Install Inboard Divertor heating/cooling system	15	24APR14	14MAY14	40,179.00																																					41=00 ; EM//SB =300																																															
8200-529	New TF air cooled bus and support system	25	15MAY14	18JUN14	66,965.00																																					41=00 ; EM//SB =500																																															
8200-535	Install center stack edge tiles	5	19JUN14	25JUN14	13,393.00																																					41=00 ; EM//SB =100																																															
Reinstall Equipment																																																																																									
8200-541	Reinstall trim coil and lock mode coil	30	13AUG13	23SEP13	156,804.00																																					41=00 ; EM//SB =1,200																																															
8200-547	Reinstall insulation	30	24SEP13	04NOV13	80,032.00																																					41=00 ; EM//SB =600																																															
8200-553	Gas Injection System	25	05NOV13	09DEC13	133,930.00																																					41=00 ; EM//SB =1,000																																															
8200-559	Reconnect trim coil and lock mode coil	11	10DEC13	24DEC13	53,572.00																																					41=00 ; EM//SB =400																																															
8200-565	Platform areas reinstall	10	05DEC13	18DEC13	53,572.00																																					41=00 ; EM//SB =400																																															
8200-571	Heating Manifold Reinstall	10	19DEC13	01JAN14	61,536.00																																					41=25,000 ; EM//SB =200																																															
8200-577	Heating Manifold Weld and reconnect	5	02JAN14	08JAN14	13,393.00																																					41=00 ; EM//SB =100																																															
8200-583	Reinstall RF pipes	48	25DEC13	28FEB14	128,572.80																																					41=00 ; EM//SB =960																																															
Bay by Bay Diagnostics																																																																																									
8200-595	Perform bay by bay review Elect	2	15AUG13	16AUG13	6,584.00																																					41=00 ; EM//SM =40																																															
8200-601	Perform bay by bay review Mech	2	19AUG13	20AUG13	6,584.00																																					41=00 ; EM//SM =40																																															
8200-607	Write reinstallation procedures	10	21AUG13	03SEP13	32,920.00																																					41=00 ; EM//SM =200																																															
8200-613	Reinstall Mech	40	04SEP13	29OCT13	169,448.32																																					41=00 ; EM//SB =1,280																																															
8200-619	Reinstall Elect	40	30OCT13	24DEC13	107,144.00																																					41=00 ; EM//SB =800																																															
8200-625	Testing	40	25DEC13	18FEB14	107,144.00																																					41=00 ; EM//SB =800																																															
Job: 8250 - Remove/Install Centerstack-VIOLA																																																																																									
Remove Old Centerstack																																																																																									
8250-101	Disconnect Hoses	1	16MAY13	16MAY13	4,558.72																																					EM//TB =32 ; EM//SM =08																																															
8250-105	Remove umbrella lid (top and bottom)	1	17MAY13	17MAY13	4,558.72																																					EM//TB =32 ; EM//SM =08																																															
8250-109	Remove flex bus (top and bottom)	6	20MAY13	27MAY13	37,078.08																																					EM//TB =288 ; EM//SM =48																																															
8250-113	Support lower support structure	4	28MAY13	31MAY13	24,718.72																																					EM//TB =192 ; EM//SM =32																																															
8250-117	lift old centerstack	2	03JUN13	04JUN13	12,359.36																																					EM//TB =96 ; EM//SM =16																																															
8250-121	Remove old centerstack pedestal	5	05JUN13	11JUN13	18,741.20																																					EM//TB =120 ; EM//SM =40																																															
Install New Centerstack																																																																																									
8250-123	Dsgn Lift Fixture for new centerstack pedestal	60	31JUL13	22OCT13	105,856.80																																					EM//EM =600																																															
8250-124	Fab Lift Fixture for new centerstack pedestal	20	24OCT13	20NOV13	63,748.00																																					EM//TB =480 ; 41=10,000																																															
8250-125	Install new centerstack pedestal	10	21NOV13	04DEC13	42,590.80																																					EM//TB =240 ; EM//SM =80 41=3,000																																															
8250-129	Lift in new centerstack (2 times)	4	05DEC13	10DEC13	25,337.92																																					EM//TB =192 ; EM//SM =32																																															
8250-133	Check vacuum seals	5	11DEC13	17DEC13	19,210.40																																					EM//TB =120 ; EM//SM =40																																															
8250-137	Install new flex bus (3 times w/2 re-machinings)	27	18DEC13	23JAN14	173,810.96																																					EM//TB =1,296 ; EM//SM =216 41=2,000																																															
8250-141	Install new umbrella (3 times w/2 re-machinings)	6	24JAN14	31JAN14	38,006.88																																					EM//TB =288 ; EM//SM =48																																															
Close Vessel and Pumpdown																																																																																									
8250-145	Clean, Photo, Close VV	9	26JUN14	08JUL14	71,964.72																																					EM//TB =576 ; EM//SM =72																																															
8250-149	Pumpdown	1	09JUL14	09JUL14	6,334.48																																					EM//TB =48 ; EM//SM =08																																															
8250-153	Leak check	12	10JUL14	25JUL14	76,013.76																																					EM//TB =576 ; EM//SM =96																																															
8250-157	Setup for Bakeout	5	28JUL14	01AUG14	31,672.40																																					EM//TB =240 ; EM//SM =40																																															
8250-161	Rayleigh/Raman Scattering	5	04AUG14	08AUG14	15,056.40																																					EM//TB =80 ; EM//SM =40																																															
8250-165	Bakeout	16	11AUG14	01SEP14	127,937.28																																					EM//TB =1,024 ; EM//SM =128																																															

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Budgeted Cost	Fiscal Year Allocation																			
						FY10	FY11	FY12	FY13	FY14	FY15														
8250-169	Recover from bakeout & scrub	7	02SEP14	10SEP14	44,341.36													EM/TB =336							
8250-173	Ready for ISTP	0		10SEP14	0.00															EM//SM =56					
Job: 7900 - Integrated System Test-GENTILE																									
Integrated System Testing (WBS 1.7 / Job 7900)																									
7900-115	Prepare NBI2 & CS ISTP Test Procedures	65	02JUL13*	30SEP13	21,031.20																				
7900-120	Conduct ACC Review of Upgrades	40	01OCT13	25NOV13	30,630.40																				
7900-140	Perform ISTP	15	11SEP14	01OCT14	14,371.20																				
7900-150	Participate in cost and schedule reviews	983	02NOV09*	04OCT13	6,786.11																				
7900-160		1	01OCT09	01OCT09	0.00																				
7900-999	NSTX RESUME OPERATIONS	0		01OCT14	0.00																				