

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	FY07	FY08	FY09	FY10	FY11	FY12
cc 9450 - NCSX Fabrication (MIE)													
1 - Stellarator Core Systems													
12 - Vacuum Vessel Systems													
Job: 1204 - VV Sys Procurements (nonVVSA)-DUDEK													
VV Vertical Supports													
124-037	PPPL Fab VV Vert. Sprts (log # M1091) (complet	197	01MAY07A	01MAY07A			0.00						
VV Personnel Access Port & Lateral sprts													
124-110	Issue req,Bid & Award VV NB port cover	25	01OCT09*	04NOV09		250	0.00						
124-120	Award VV NB port cover	0		04NOV09*		250	0.00						
124-130	VV NB port cover Fabrication	40	05NOV09	13JAN10		250	83,786.32						
VV Local I&C													
1204-101	Drawings Signed -Local I&C	0		30APR07		404	0.00						
1204-105	Issue req,Bid & Award -Local I&C	25	01MAY07	05JUN07		404	0.00						
1204-109	Award -Local I&C	0		05JUN07		404	0.00						
1204-113	Deliver -Local I&C	40	06JUN07	01AUG07		404	34,400.96						
Thermal Insulation													
123-040	Issue req,Bid & Award insul boots	25	01SEP09*	06OCT09		237	0.00						
123-045	Award Insulation Boots	0		06OCT09*		237	0.00						
123-050	Fabricate& Deliver Insul Boots	130	07OCT09	20APR10		237	79,834.00						
122-035	Issue req,Bid & Award Port Thermal Insulation	25	27MAY08*	30JUN08		379	0.00						
122-041	Award Port Thermal Insulation	0		01AUG08*		356	0.00						
122-051	Deliver Port Thermal Insulation	40	04AUG08	29SEP08		356	32,700.00						
122-030	Issue req,Bid & Award Pourable Insulation	25	27AUG09	01OCT09		345	0.00						
122-036.9	Award Pourable Insulation	0		01OCT09*		345	0.00						
122-037	Deliver Pourable Insulation	40	02OCT09	30NOV09		345	114,560.00						
Heater Tape for Port Stub													
1204-121	Drawings Signed Heater Tape for port stubs	0		30APR07		428	0.00						
1204-125	Issue req,Bid & Award -Heater Tape for port stub	25	01MAY07	05JUN07		428	0.00						
1204-129	Award Heater Tape for port stubs	0		05JUN07		428	0.00						
1204-130	Deliver Heater Tape for port stubs	40	06JUN07	01AUG07		428	19,650.40						
T/C and Heater Tape Leads													
1204-145	Issue req,Bid & Award-T/C and Heater Tape Leads	25	30MAY07	03JUL07		408	0.00						
1204-149	Award T/C and Heater Tape Leads	0		03JUL07		408	0.00						
1204-153	Deliver T/C and Heater Tape Leads	40	05JUL07	29AUG07		408	36,047.00						
Flux loop junction boxes and spacer templates													
1204-173M	Material Delivery	35	02AUG07	20SEP07		334	12,275.12						

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								FY07	FY08	FY09	FY10	FY11	FY12
13 - Conventional Coils													
Job: 1361 - TF Fabrication-KALISH													
TF Title III and Fabrication Oversight													
131-033	Title III engr	164*	01MAY07	21DEC07		1,191	163,918.57					EA//EM =788hr ; 35=05\$K ; 41=8 em//tb=68	
TF Fabrication Contract													
1361C-101	Fab, Test & Deliver Coil #1	28*	01MAY07	08JUN07		683	27,210.00					48=27 ;	
1361C-102	Fab, Test & Deliver Coil #2	32*	01MAY07	14JUN07		679	43,590.00					48=44 ;	
1361C-103	Fab, Test & Deliver Coil #3	44*	01MAY07	02JUL07		667	47,210.00					48=47 ;	
1361C-104	Fab, Test & Deliver Coil #4	1	11JUL07*	11JUL07		670	47,210.00					48=47 ;	
1361C-105	Fab, Test & Deliver Coil #5	1	24JUL07*	24JUL07		661	47,210.00					48=47 ;	
1361C-106	Fab, Test & Deliver Coil #6	1	03AUG07*	03AUG07		653	47,210.00					48=47 ;	
1361C-107	Fab, Test & Deliver Coil #7	1	15AUG07*	15AUG07		694	47,210.00					48=47 ;	
1361C-108	Fab, Test & Deliver Coil #8	1	27AUG07*	27AUG07		686	47,210.00					48=47 ;	
1361C-109	Fab, Test & Deliver Coil #9	1	06SEP07*	06SEP07		679	47,210.00					48=47 ;	
1361C-110	Fab, Test & Deliver Coil #10	1	18SEP07*	18SEP07		680	47,210.00					48=47 ;	
1361C-111	Fab, Test & Deliver Coil #11	1	28SEP07*	28SEP07		672	47,210.00					48=47 ;	
1361C-112	Fab, Test & Deliver Coil #12	1	10OCT07*	10OCT07		664	48,390.25					48=47 ;	
1361C-113	Fab, Test & Deliver Coil #13	1	22OCT07*	22OCT07		673	48,390.25					48=47 ;	
1361C-114	Fab, Test & Deliver Coil #14	1	01NOV07*	01NOV07		665	48,390.25					48=47 ;	
1361C-115	Fab, Test & Deliver Coil #15	1	13NOV07*	13NOV07		657	48,400.50					48=47 ;	
1361C-116	Fab, Test & Deliver Coil #16	1	23NOV07*	23NOV07		654	48,400.50					48=47 ;	
1361C-117	Fab, Test & Deliver Coil #17	1	05DEC07*	05DEC07		648	48,400.50					48=47 ;	
1361C-118	Fab, Test & Deliver Coil #18	1	17DEC07*	17DEC07		640	48,400.50					48=47 ;	
1351-195X	ALL TF COILS DELIVERED	0	01MAY07	30APR07		1,355	0.00						
FY07 Rebaseline Exercise													
ECP53RBX03	FY07 Rebaseline exercise	22*	01MAY07	31MAY07		1,333	1,422.48					EA//EM =08hr ;	
Job: 1302 - PF Design -KALISH													
FY07 Rebaseline Exercise													
ECP53RBX02	FY07 Rebaseline exercise	22*	01MAY07	31MAY07		1,333	7,112.40					EA//EM =40hr ;	
1302-200	Complete PF Coil SRD	20	04JUN07*	29JUN07		401	4,267.44					EA//EM =24hr ;	
1302-205	Update PF Analysis	40	02JUL07	27AUG07		401	28,449.60					EA//EM =160hr ;	
1302-210	Update PF Coil SDD	40	28AUG07	23OCT07		401	4,348.53					EA//EM =24hr ;	
1302-211	Complete PF4 PDR Model	20	02JUL07	30JUL07		421	14,224.80					EA//EM =00hr ; EA//DM =80 ;	
1302-212	Complete PF5 PDR Model	20	31JUL07	27AUG07		421	14,224.80					EA//EM =00hr ; EA//DM =80 ;	
1302-213	Complete PF6 PDR Model	20	28AUG07	25SEP07		421	14,224.80					EA//EM =00hr ; EA//DM =80 ;	
1302-251	PDR Level Design Support Support	62	02JUL07	27SEP07		429	10,668.60					EA//EM =60hr ;	
1302-220	Prepare for PDR	10	24OCT07	06NOV07		401	16,346.88					EA//EM =52hr ; EA//DM =36 ;	
1302-225	PDR	2	07NOV07	08NOV07		401	2,972.16					EA//EM =16hr ;	

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1302-214	Prepare, Review & Approve conductor spec	5	09NOV07	15NOV07		441	2,972.16						
1302-216	Prepare, Review & Approve coil spec	20	16NOV07	17DEC07		441	8,916.48						
1302-240	Disposition PDR Chits	20	09NOV07	10DEC07		441	4,458.24						
1302-235	Detail Drawings PF4	20	09NOV07	10DEC07		401	14,860.80						
1302-245	Detail Drawings PF5	20	11DEC07	16JAN08		401	14,860.80						
1302-260	Detail Drawings PF6	20	17JAN08	13FEB08		401	14,860.80						
1302-250	Analysis Support	10	09NOV07	22NOV07		451	13,003.20						
1302-217	Drawing Support	60	09NOV07	13FEB08		401	11,145.60						
1302-218	PF Stress Analysis with leads	30	09NOV07	02JAN08		431	22,291.20						
1302-265	Prepare for FDR	5	14FEB08	20FEB08		401	16,346.88						
1302-270	PF FDR	2	21FEB08	22FEB08		401	2,972.16						
1302-275	Resolve Chits	20	25FEB08	21MAR08		426	14,860.80						
Job: 1352 - PF Coil Procurement-KALISH													
PF Coil Fabrication													
141-035	Bid & Award PF Coil Fabrication	45	30MAY08	01AUG08		333	35,811.60						
141-036	PF Coils Awarded	0		01AUG08*		333	0.00						
141-037	Bid & Award Conductor	25	27JUN08	01AUG08		333	8,916.48						
141-038	PF Conductor Awarded	0		01AUG08*		333	0.00						
141-038.1	PF Conductor Delivery	65	04AUG08	03NOV08		333	127,784.10						
141-039	Bid & Award Materials	25	27JUN08	01AUG08		353	8,916.48						
141-040	PF Materials Awarded	0		01AUG08*		353	0.00						
1352-100	Materials Delivery PF 4,5,6	45	04AUG08	06OCT08		353	178,529.66						
1352-120	Tooling for PF 4	65	04AUG08	03NOV08		333	96,542.03						
1352-150	Fabricate/Dlvr PF 4	30	04NOV08	17DEC08		333	42,250.20						
1352-165	Fabricate/Dlvr PF 5 incl tooling	30	18DEC08	06FEB09		333	436,165.00						
1352-145	Fabricate/Dlvr PF 6 incl tooling	30	09FEB09	20MAR09		333	509,735.00						
141-031	Title III engr WBS 132	333	30MAY08	28SEP09		752	112,363.08						
141-900	PF4 Inspection & Test	10	18DEC08	09JAN09		393	7,122.60						
141-901	PF5 Inspection & Test	10	09FEB09	20FEB09		363	7,122.60						
141-902	PF6 Inspection & Test	10	23MAR09	03APR09		333	7,122.60						
141-903	Refurbish PF 1a	20	18FEB10*	17MAR10		270	6,820.80						
141-904	Assemble PF1a and CS structure	30	18MAR10	28APR10		270	21,550.00						
Job: 1353 - CS Structure Procurement-DAHLGREN													
CS Support Structure													
1353-001	Design PF1a upper to lower interconnect bus	30	20APR09	01JUN09		270	12,342.00						
1353-002	Engr & analysis of bus	20	02JUN09	29JUN09		270	15,296.80						
1353-003	Bid & Award PF1a bus	45	30JUN09	01SEP09		270	0.00						
1353-004	Award PF1a bus	0		01SEP09*		270	0.00						
1353-005	Fab & Deliver PF1a bus	130	02SEP09	17MAR10		270	48,162.54						

EA/EM =16hr ; EA/SB =00hr ;
EA/EM =48hr ; EA/SB =00hr ;
EA/EM =24hr ;
EA/DM =80 ;
EA/DM =80 ;
EA/DM =80 ;
EA/EM =70hr ;
EA/EM =60hr ; EA/SB =00hr ;
EA/EM =120hr ; EA/SB =00hr ;
EA/EM =52hr ; EA/DM =36 ;
EA/EM =16hr ;
EA/EM =80hr ;

EA/EM =160hr ; 35=05\$K ;
EA/EM =48hr ;
41=95.3\$K ;
EA/EM =48hr ;
41=136\$K ;
41=72\$K ;
48=40 ;
48=415 ;
48=485 ;
EA/EM =592hr ;
EA/EM =20hr ; EM/TB =40hr ;
EA/EM =20hr ; EM/TB =40hr ;
EA/EM =20hr ; EM/TB =40hr ;
EM/TB =80hr ;
EM/TB =160hr ; EA/EM =40hr ;

ea/sb=100
ea/em=80
41=33.76

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								FY07	FY08	FY09	FY10	FY11	FY12
163-035	Bid & Award CS Support Struct	45	30JUN09	01SEP09		270	0.00						
163-036.9	Award CS Support Structure	0		01SEP09*		270	0.00						
163-037	CS Support Structure Procurement/Fab	130	02SEP09	17MAR10		270	247,857.24						
163-015	Title III design CS sprt struc	175*	30JUN09	17MAR10		270	13,670.70						
Job: 1354 - Trim Coil Design &Procurement-KALISH													
Trim Coils													
1303-101	Complete Trim Coil SRD	10	01JUN09*	12JUN09		275	1,529.68						
1303-103	Analysis	15	15JUN09*	06JUL09		275	7,648.40						
1303-105	FDR Dwgs	20	07JUL09*	03AUG09		275	11,472.60						
1303-107	Prepare for FDR	5	04AUG09*	10AUG09		275	3,059.36						
1303-110	Trim Coil FDR	1	11AUG09*	11AUG09		275	1,529.68						
1303-112	Prepare Procurement Coil Spec	5	12AUG09*	18AUG09		780	4,589.04						
1303-114	Disposition FDR Chits	5	12AUG09*	18AUG09		290	1,529.68						
1303-116	Detail Fabrication Drawings	20	12AUG09*	09SEP09		275	12,237.44						
184-035	Bid & Award Ext Trim Coils	45	10SEP09	11NOV09		275	4,693.04						
184-036	Award External Trim Coils	0	12NOV09	11NOV09		275	0.00						
184-037	External Trim Coil Procurement	88	12NOV09	29MAR10		275	48,258.40						
184-015	Title III WBS 133 Rxt Trim Coils	88	12NOV09	29MAR10		275	26,116.86						
Job: 1355 - WBS 13 I&C Proc and Coil Assy-KALISH													
TF/PF Loacl I&C													
1355-101	Design, and Review	20	01FEB08*	28FEB08		389	11,145.60						
1355-103	Prepare Installation Procedures	10	29FEB08	13MAR08		389	3,715.20						
1355-105	FDR	1	14MAR08	14MAR08		389	1,486.08						
1355-107	Prep req,bid,award T/C and wire	20	17MAR08	11APR08		389	2,229.12						
1355-109	Deliver of T/C and wire	40	14APR08	09JUN08		389	13,080.00						
1355-111	Installation on PF4,5,6 Coils upon delivery	20	09MAR09	03APR09		333	9,745.80						
1355-112	Installation on TF Coils upon delivery	45	30SEP08	03DEC08		311	29,027.80						
1355-113	Installation on PF1a Coils upon delivery	3	15MAR10	17MAR10		270	1,561.87						
14 - Modular Coils													
Job: 1416 - Mod Coil Type AB Fnl Dsn-WILLIAMSON													
Clamp hardware modifications													
1416-204.1	Modify Type-B clamps for stud attachment	9*	01MAY07	11MAY07		557	1,557.20						
Blanket thermal insulation													
1416-304	Revise assembly models/drawings	5	01MAY07	07MAY07		546	3,114.40						
1416-305	Review and approve insulation concept	5	08MAY07	14MAY07		546	3,335.30						
1416-3198	Report Results	10	15MAY07	29MAY07		546	1,231.36						
FY07 Rebaseline Exercise													
ECP53RBX04	FY07 Rebaseline exercise	22*	01MAY07	31MAY07		1,333	1,245.76						
Top level assy models/drawings													
1416-501	Complete models/drawings of coolant line routing	16	01AUG07*	22AUG07		481	155.72						

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								FY07	FY08	FY09	FY10	FY11	FY12
1416-502	Check layout of flux loop terminations and revis	16	01AUG07*	22AUG07		481	77.86						
1416-503	Complete models/drawings of power cable connect	16	01AUG07*	22AUG07		481	155.72						
1416-504	Complete models/drawings of protective covers	16	01AUG07*	22AUG07		481	77.86						
1416-505	Drawing callouts for interface hdw (prelim model	16	01AUG07*	22AUG07		481	155.72						
1416-507	Update, review and approve coil asm spec	16	01AUG07*	22AUG07		481	155.72						
1416-508	Complete drawing rev to leads, terminal asm (ECN	16	01AUG07*	22AUG07		481	77.86						
1416-506	Check and promote top-level models/drawings	5	23AUG07	29AUG07		481	5,138.76						
Analysis and closeout documentation													
1416-601	Prepare EM and structural analysis of leads	27*	23MAY07*	29JUN07		489	34,139.52						
1416-602	Design memo KF structural analysis	5	15AUG07*	21AUG07		458	2,491.52						
1416-603	Update, review and approve FMECA	5	22AUG07	28AUG07		458	4,983.04						
1416-604	Finalize draft documents - materials, eddy curre	5	29AUG07	05SEP07		458	2,491.52						
1416-605	Prepare Type-ABC closeout FDR	4	06SEP07	11SEP07		458	4,983.04						
1416-606	Resolve FDR comments	15	12SEP07	02OCT07		458	5,008.81						
Type C Design Closeout													
1403-47C	Perform cool-down/warmup analysis	26	31AUG07*	08OCT07		454	7,185.78						
Job: 1408 - MC Winding Supplies-CHRZANOWSKI													
1408-1	Procure Batt insulation	40	01MAY07	26JUN07		1,315	10,208.00						
1408-2	Epoxy (existing order)	207	01MAY07	29FEB08		1,148	58,122.61						
1408-3	Misc and safety supplies (\$7k/mo.)	250	01MAY07	30APR08		1,105	108,732.29						
1408-4	Starin Gages and Thermocouples	40	01MAY07	26JUN07		1,315	76,560.00						
1408-5	Epoxy/glass for mold shell	164	01MAY07	21DEC07		1,191	12,873.17						
1408-6	VPI clean manifold contract	227	01MAY07	28MAR08		1,128	12,930.57						
1408-7	Misc tech shop support	250	01MAY07	30APR08		1,105	50,317.93						
Job: 1411 - MCWF Fabr. S005242-HEITZENROEDER													
MCWF-001	EIO Contract Accrued/cost to date =\$9,216k	213*	30APR07A	30APR07A			0.00						
MCWF-002	EIO Contract TOTAL EAC =\$9,187k	213*	30APR07A	30APR07A			0.00						
MCWF-003	Contract closeout final cost increment	20					1,800.00						
MCWF-571	B6-MTM - machining/inspection	213*	31JUL06A	06JUN07		1,361	0.00						
MCWF-581	B6-Receive at PPPL	0		07JUN07		1,361	0.00						
MCWF-004	PPPL Oversight	43	01MAY07	29JUN07		1,345	7,112.40						
MCWF-301	C6-MTM - machining/inspection	276*	03APR06A	08MAY07		1,381	0.00						
MCWF-311	C6-Receive at PPPL	0		09MAY07		1,381	0.00						
Job: 1451 - Mod Coil Winding-CHRZANOWSKI													
Station 1a/4 Casting Prep													
P1-061	Receive A5, Prep& Instl Cladding	24*	19APR07A	22MAY07		337	48,955.65						
P3-061	Receive B5, Prep& Instl Cladding	18	23MAY07	18JUN07		361	48,878.96						

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P1-151	Receive A6, Prep& Instl Cladding	18	19JUN07*	13JUL07		361	48,878.96	EM/TB =244hr ; EMT/TB =124 ; EM2/TB =245 ;					
P2-031	Receive C6, Prep& Instl Cladding	18	16JUL07*	08AUG07		385	48,878.96	EM/TB =244hr ; EMT/TB =124 ; EM2/TB =245 ;					
P3-151	Receive B6, Prep& Instl Cladding	18	09AUG07*	04SEP07		385	48,878.96	EM/TB =244hr ; EMT/TB =124 ; EM2/TB =245 ;					
Station 2-Winding, Instl Chill Plates,Tubing,Bag													
P2-161	Wind coil B4	41*	16APR07A	12JUN07		359	127,103.90	EM/TB =774hr ; EM2/TB =774 ; EMT/TB =32 ;					
P2-170	Instl Chill Plates,Tubing,Bag B4	22	13JUN07	13JUL07		359	63,131.60	EM/TB =392hr ; EM2/TB =392 ;					
P3-071	Wind coil B5	38	16JUL07	06SEP07		391	127,103.90	EM/TB =774hr ; EM2/TB =774 ; EMT/TB =32 ;					
P3-080	Instl Chill Plates,Tubing,Bag B5	22	07SEP07	08OCT07		391	63,899.21	EM/TB =392hr ; EM2/TB =392 ;					
P2-041	Wind coil C6	38	09OCT07	03DEC07		415	132,773.54	EM/TB =774hr ; EM2/TB =774 ; EMT/TB =32 ;					
P2-050	Instl Chl Plates,Tubing, Bag C6	22	04DEC07	11JAN08		415	65,946.16	EM/TB =392hr ; EM2/TB =392 ;					
Station 4-Winding, Instl Chill Plates,Tubing,Bag													
P2-080	Instl Chill Plates,Tubing,Bag B3	28*	01APR07A	09MAY07		346	63,131.60	EM/TB =392hr ; EM2/TB =392 ;					
P2-131	Wind coil A5	38	23MAY07	17JUL07		337	127,103.90	EM/TB =774hr ; EM2/TB =774 ; EMT/TB =32 ;					
P2-140	Instl Chl Plates,Tubing, Bag A5	22	18JUL07	16AUG07		337	63,131.60	EM/TB =392hr ; EM2/TB =392 ;					
P1-161	Wind coil A6	38	17AUG07	10OCT07		337	128,297.51	EM/TB =774hr ; EM2/TB =774 ; EMT/TB =32 ;					
P1-170	Instl Chill Plates,Tubing,Bag A6	22	11OCT07	09NOV07		337	65,946.16	EM/TB =392hr ; EM2/TB =392 ;					
P3-161	Wind coil B6	38	12NOV07	15JAN08		337	132,773.54	EM/TB =774hr ; EM2/TB =774 ; EMT/TB =32 ;					
P3-170	Instl Chill Plates,Tubing,Bag B6	22	16JAN08	14FEB08		337	65,946.16	EM/TB =392hr ; EM2/TB =392 ;					
Station 5-VPI													
P2-081V	VPI (Station 5) B3	11	10MAY07	24MAY07		374	45,759.76	EM/TB =276hr ; EM2/TB =277 ; EMT/TB =16 ;					
P3-081V	VPI (Station 5) B4	11	16JUL07	30JUL07		359	45,759.76	EM/TB =276hr ; EM2/TB =277 ; EMT/TB =16 ;					
P1-081V	VPI (Station 5) A5	11	17AUG07	31AUG07		397	45,759.76	EM/TB =276hr ; EM2/TB =277 ; EMT/TB =16 ;					
P2-171V	VPI (Station 5) B5	11	09OCT07	23OCT07		391	47,801.36	EM/TB =276hr ; EM2/TB =277 ; EMT/TB =16 ;					
P1-171V	VPI (Station 5) A6	11	12NOV07	26NOV07		352	47,801.36	EM/TB =276hr ; EM2/TB =277 ; EMT/TB =16 ;					
P2-051V	VPI (Station 5) C6	11	14JAN08	28JAN08		415	47,801.36	EM/TB =276hr ; EM2/TB =277 ; EMT/TB =16 ;					
P3-171V	VPI (Station 5) B6	11	15FEB08	29FEB08		337	47,801.36	EM/TB =276hr ; EM2/TB =277 ; EMT/TB =16 ;					
Station 1 Post VPI													
P3-141C	Final Clamps & Warm Test (Station1) A4	9	01MAY07	11MAY07		377	24,913.84	EM/TB =140hr ; EM2/TB =139 ; EMT/TB =32 ;					
P2-081C	Final Clamps & Warm Test (Station1) B3	9	25MAY07	07JUN07		374	24,913.84	EM/TB =140hr ; EM2/TB =139 ; EMT/TB =32 ;					
P3-081C	Final Clamps & Warm Test (Station1) B4	9	31JUL07	10AUG07		359	24,913.84	EM/TB =140hr ; EM2/TB =139 ; EMT/TB =32 ;					
P1-081C	Final Clamps & Warm Test (Station1) A5	9	04SEP07	14SEP07		397	24,913.84	EM/TB =140hr ; EM2/TB =139 ; EMT/TB =32 ;					

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
P3-171C	Final Clamps & Warm Test (Station1) B5	9	24OCT07	05NOV07		391	26,027.60						
P1-171C	Final Clamps & Warm Test (Station1) A6	9	27NOV07	11DEC07		352	26,027.60						
P2-051C	Final Clamps & Warm Test (Station1) C6	9	29JAN08	08FEB08		415	26,027.60						
P2-171C	Final Clamps & Warm Test (Station1) B6	9	03MAR08	13MAR08		337	26,027.60						
LOE Oversight & Supervision													
145XSPRV-1	Winding Engineering oversight and supervision	250	01MAY07	30APR08		1,105	709,164.04						
Job: 1459 - Mod Coil Fabr.Punch List-CHRZANOWSKI													
Punchlist Tech shop/RESA													
PLTS-A1	Grinding and Add'l holes -A1	15	01MAY07	21MAY07		275	7,975.76						
PLTS-A2	Grinding and Add'l holes -A2	15	22MAY07	12JUN07		275	7,975.76						
PLTS-B1	Grinding and Add'l holes -B1	15	13JUN07	03JUL07		275	7,975.76						
PLTS-C1	Grinding and Add'l holes -C1	15	05JUL07	25JUL07		275	7,975.76						
PLTS-B2	Grinding and Add'l holes -B2	15	26JUL07	15AUG07		281	7,975.76						
PLTS-C2	Grinding and Add'l holes -C2	15	16AUG07	06SEP07		281	7,975.76						
PLTS-A3	Grinding and Add'l holes -A3	15	07SEP07	27SEP07		281	7,975.76						
PLTS-A4	Grinding and Add'l holes -A4	15	28SEP07	18OCT07		281	8,307.73						
PLTS-B3	Grinding and Add'l holes -B3	15	19OCT07	08NOV07		281	8,331.44						
PLTS-C3	Grinding and Add'l holes -C3	15	09NOV07	03DEC07		281	8,331.44						
PLTS-B4	Grinding and Add'l holes -B4	15	04DEC07	02JAN08		281	8,331.44						
PLTS-C4	Grinding and Add'l holes -C4	15	03JAN08	23JAN08		313	8,331.44						
PLTS-A5	Grinding and Add'l holes -A5	15	24JAN08	13FEB08		313	8,331.44						
PLTS-A6	Grinding and Add'l holes -A6	15	14FEB08	05MAR08		313	8,331.44						
PLTS-B5	Grinding and Add'l holes -B5	15	06MAR08	26MAR08		313	8,331.44						
PLTS-C5	Grinding and Add'l holes -C5	15	27MAR08	16APR08		313	8,331.44						
PLTS-B6	Grinding and Add'l holes -B6	15	17APR08	07MAY08		313	8,331.44						
PLTS-C6	Grinding and Add'l holes -C6	15	08MAY08	29MAY08		352	8,331.44						
Punchlist- Coil Technicians													
PLCT-A1	Insul,measure,TC,SG other punch list-A1	15	22MAY07	12JUN07		281	19,862.71						
PLCT-A2	Insul,measure,TC,SG other punch list-A2	12	13JUN07	28JUN07		281	15,798.14						
PLCT-B1	Insul,measure,TC,SG other punch list-B1	12	05JUL07	20JUL07		278	15,798.14						
PLCT-C1	Insul,measure,TC,SG other punch list-C1	15	26JUL07	15AUG07		275	19,862.71						
PLCT-B2	Insul,measure,TC,SG other punch list-B2	12	16AUG07	31AUG07		289	15,798.14						
PLCT-C2	Insul,measure,TC,SG other punch list-C2	15	07SEP07	27SEP07		286	19,862.71						
PLCT-A3	Insul,measure,TC,SG other punch list-A3	14	28SEP07	17OCT07		286	19,247.64						
PLCT-A4	Insul,measure,TC,SG other punch list-A4	14	19OCT07	07NOV07		285	19,306.51						
PLCT-B3	Insul,measure,TC,SG other punch list-B3	12	09NOV07	26NOV07		284	16,502.66						
PLCT-C3	Insul,measure,TC,SG other punch list-C3	15	04DEC07	02JAN08		281	20,748.49						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
PLCT-B4	Insul,measure,TC,SG other punch list-B4	12	03JAN08	18JAN08		281	16,502.66						
PLCT-C4	Insul,measure,TC,SG other punch list-C4	16	24JAN08	14FEB08		316	22,110.36						
PLCT-A5	Insul,measure,TC,SG other punch list-A5	12	15FEB08	03MAR08		321	16,502.66						
PLCT-A6	Insul,measure,TC,SG other punch list-A6	12	06MAR08	21MAR08		319	16,502.66						
PLCT-B5	Insul,measure,TC,SG other punch list-B5	12	27MAR08	11APR08		316	16,502.66						
PLCT-C5	Insul,measure,TC,SG other punch list-C5	15	17APR08	07MAY08		313	20,748.49						
PLCT-B6	Insul,measure,TC,SG other punch list-B6	12	08MAY08	23MAY08		313	16,502.66						
PLCT-C6	Insul,measure,TC,SG other punch list-C6	12	30MAY08	16JUN08		352	16,422.55						
Job: 1421 - Mod Coil Interface Design-WILLIAMSON													
Tension Tests of Bolted Joint													
1421-3067	Procure 2 studs f/joint test.Use existing part	19*	01MAY07	25MAY07		271	5,185.54						
1421-3075	Setup test fixture &perform JHA & pre-job brief	2	29MAY07	30MAY07		271	2,458.40						
1421-3077	Meas joint deflect vs preload & loss of preload	3	31MAY07	04JUN07		271	5,534.64						
1421-3079	Measure joint deflec & preload v. temp @80K	3	05JUN07	07JUN07		271	5,534.64						
1421-3084	Measure joint deflection&preload v. cooldown cyc	3	08JUN07	12JUN07		271	5,534.64						
1421-3087	Perform pullout tests for tapped holes	3	13JUN07	15JUN07		271	5,534.64						
1421-3081	Meas joint deflect & preload v. time (days) at R	20	18JUN07	16JUL07		271	36,897.60						
1421-3090	Document&conduct review of test results	5	17JUL07	23JUL07		271	6,156.80						
Bolt Shear Test at 77k													
1421-3112B	Procure/fab parts for test&initial assembly	28*	01MAY07	08JUN07		270	12,760.00						
1421-3115B	Assemble & test	20	11JUN07	09JUL07		270	18,686.40						
1421-3119B	Document test results	11	10JUL07	24JUL07		270	3,114.40						
Complete Design of MC Interface													
IH1-000	ESTABLISH CONCEPT	20	01MAY07	29MAY07		278	3,114.40						
IH1-0000	PEER REVIEW OF JOINT CONCEPT	1	30MAY07	30MAY07		278	3,114.40						
IH1-001	Coil to coil analysis	5	31MAY07	06JUN07		278	3,114.40						
1421-3125	Determine geometry&location of high COF shims&pl	5	07JUN07	13JUN07		278	1,422.48						
1421-3127	Structural analyses to performance rqmts for bol	5	14JUN07	20JUN07		278	2,668.24						
1421-3132	PDR to review requirements, design,&development	0		20JUN07		278	0.00						
1421-3134	Develop specs & dwgs for station 2 &3 assy	15	21JUN07	12JUL07		278	18,686.40						
1421-3136	Conduct MC interface FDR	0		01AUG07		264	0.00						
1421-3138	Resolve issues, release assembly spec&drawings	5	02AUG07	08AUG07		264	6,228.80						
FY07 Rebaseline Exercise													
ECP53RBX05	FY07 Rebaseline exercise	22*	01MAY07	31MAY07		21	4,983.04						
Interface Design													
INTRF-001	PPPL buy SS plate for weld trials	10	23MAY07*	06JUN07		221	39,511.36						
INTRF-005	Weld distortion trials at PPPL on SS plate	15	07JUN07	27JUN07		221	24,902.80						
INTRF-010	Develop Weld Geometry Procedure	2	28JUN07	29JUN07		221	2,844.96						
INTRF-025	ORNL build plywood mockup of flange	10	23MAY07*	06JUN07		228	49,706.40						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
INTRF-030	ORNL verify weld access	10	07JUN07	20JUN07		228	6,228.80						
INTRF-035	PPPL Determine shim material	15	23MAY07*	13JUN07		233	7,112.40						
INTRF-040	Analysis of tensile loads (ORNL)	20	23MAY07*	20JUN07		228	37,372.80						
INTRF-045	FDR outboard shims	0		29JUN07		221	0.00						
IH4-020	Prepare shim dwgs and release	25	01MAY07	05JUN07		239	3,737.28						
INTRF-015	Weld trials on two MCWF's at PPPL	20	02JUL07	30JUL07		229	58,646.40						
INTRF-020	Document results and update weld procedure	2	31JUL07	01AUG07		229	2,844.96						
INTRF-050	Complete Shim fabrication drawings (ORNL)	20	02JUL07	30JUL07		231	24,915.20						
INTRF-055	FDR a-b b-c inboard shims	0		01AUG07		229	0.00						
Job: 1429 - MC Interface R&D-GETTELFINGER													
Coefficient of Friction (COF) Tests													
1429-3026	COF cyclic testing	22*	01MAY07	31MAY07		231	31,554.00						
1429-3031	Implications of press.-dependent COF for shim ds	1	01JUN07	01JUN07		231	0.00						
1429-3036	Document and conduct peer review of test results	5	04JUN07	08JUN07		231	6,156.80						
1429-3050	Define geometry of standard shim and test	22*	01MAY07	31MAY07		237	0.00						
1429-3055	Finalize procurementg dwgs. Conduct FDR	5	11JUN07	15JUN07		231	0.00						
Job: 1431 - Mod. Coil Interface Hardware-DUDEK													
Bladders													
1421-3024	Prep Req, Bid,& Award Bladders	20	01MAY07	29MAY07		307	0.00						
1421-3025	Deliver bladders	7*	30MAY07	07JUN07		307	16,396.60						
1421-3028	Bladders available for FPA	0		07JUN07		307	0.00						
Bushings													
1421-3105	Prep Req, Bid,& Award Bushings	15	01MAY07	21MAY07		269	0.00						
1421-3106	Deliver Bushings Material	45	22MAY07	25JUL07		269	10,271.80						
1421-3107	PPPL Machine bushings Bushings	68	26JUL07	30OCT07		269	31,871.59						
1421-3108	Bushings available for first coil-to-coil fitup	0	02AUG07			269	0.00						
1421-3109	All Bushings delivered	0		30OCT07		452	0.00						
Shims													
1429-3059	Prep Req, Bid,Award Shim Stock	15	02JUL07	23JUL07		221	0.00						
1429-3060	Deliver Shim Stock	35	24JUL07	11SEP07		221	77,274.56						
1429-3061	Prep Req, Bid,Award Grinding contract	15	02JUL07	23JUL07		236	0.00						
1429-3062	Grind Shim Stock	35	14AUG07	02OCT07		221	7,155.84						
1429-3063	Pre Req, Bid, Award Cutting Contract	15	02AUG07	22AUG07		229	0.00						
1429-3064	Machine shop cut shim stock to size	35	05SEP07	23OCT07		221	35,080.58						
1429-3065	Prep Req, Bid, Award Alumina Application	15	02AUG07	22AUG07		244	0.00						
1429-3066	Apply Alumina to Shims	35	26SEP07	13NOV07		221	50,643.98						
1429-3069	Shims Req'd for 1st 3 pack MC assy	0	10OCT07			221	0.00						
1429-3070	Shims Req'd for 2nd 3 pack MC assy	0	17OCT07			259	0.00						
1429-3071	Shims Req'd for 3rd 3 pack MC assy	0	24OCT07			324	0.00						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
1429-3072	Shims Req'd for 4th 3 pack MC assy	0	31OCT07			330	0.00						
1429-3073	Shims Req'd for 5th 3 pack MC assy	0	07NOV07			440	0.00						
1429-3074	Shims Req'd for 6th 3 pack MC assy	0		13NOV07		442	0.00						
Studs,Washers,Nuts													
1421-3060	Deliver Stud Kit (PE007330) (for 1st 3 pack only	44*	01MAY07A	02JUL07		290	98,992.08						
1421-3061	Stud kit available for 1st 3 pack MC assy	0		02JUL07		290	0.00						
1421-3062	Re-order balance of stud kits	65	01MAY07	01AUG07		312	398,482.04						
1421-3063	Stud kits available for balance of MC assy	0		01AUG07		312	0.00						
1421-3065	Deliver Superbolts (PE007332)	22*	01MAY07A	31MAY07		312	143,550.00						
1421-3066	Super bolts available for FPA	0		31MAY07		312	0.00						

15 - Coil Structures

Job: 1501 - Coil Structures Design-DAHLGREN

1501-521	Complete Preliminary Stress analysis	11*	01MAY07	15MAY07		380	12,446.70						
1501-522	Prelim CAD models & Dwgs	30	01MAY07	12JUN07		358	28,449.60						
1501-525	PDR Prep	3	13JUN07	15JUN07		358	3,556.20						
1501-525P	PDR	1	18JUN07*	18JUN07		358	1,422.48						
1501-533	Detail CAD Drawings,BOM	40	19JUN07	14AUG07		358	60,455.40						
1501-533F	Integrated Stress Analysis	40	19JUN07	14AUG07		358	42,674.40						
1501-537	FDR Prep	3	15AUG07	17AUG07		358	2,667.15						
1501-541	FDR	1	20AUG07	20AUG07		358	1,422.48						
1501-545	Resolve Chits	20	21AUG07	18SEP07		358	7,112.40						
1501-549	Update C.S.Support Design	10	21AUG07	04SEP07		363	10,668.60						
1501-550	Peer Review Updated C.S.Design	3	05SEP07	07SEP07		363	1,422.48						
1501-554	Resolve Chits from peer review	2	10SEP07	11SEP07		363	2,844.96						
1501-558	Prepare requisition for Coil Structure & CSS h/w	10	19SEP07	02OCT07		358	717.60						
1501-562	Prepare Specs for Coil Structure & CSS h/w	10	12SEP07	25SEP07		363	1,778.10						

Job: 1550 - Coil Struct. Procurement -DAHLGREN

1501-245	Prep Spec,Solicit Bids, and Evaluate Bids	30	03OCT07	13NOV07		358	0.00						
162-036.9	Award Coil Support Structure	0		01MAY08*		330	0.00						
162-037	Fabricate TF/MCWF mounting Components	130	02MAY08	04NOV08		330	535,244.18						
162-038	Fabricate PF Mounting components	130	01MAY09*	03NOV09		388	826,302.02						
162-039	Fabricate Final TF Assy components Components	130	02FEB09*	04AUG09		398	116,747.29						
162-040	Fabricate Machine/base support interface	130	30MAR09*	30SEP09		358	118,465.60						
162-050	Prep req, bid and award G11/Teflon parts	20	26SEP07	23OCT07		498	0.00						
162-051	Deliver G11/Teflon parts	90	24OCT07	10MAR08		498	196,749.36						
162-052	Prep req, bid and award Inconel hardware	20	26SEP07*	23OCT07		498	0.00						
162-053	Deliver Inconel hardware	90	24OCT07	10MAR08		498	127,503.84						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
162-055	Prep req, bid and award Belleville Washers	20	26SEP07	23OCT07		498	0.00						
162-057	Deliver Belleville Washers	90	24OCT07	10MAR08		498	18,207.36						
162-031	Title III engr WBS 151	497*	03OCT07*	30SEP09		358	14,075.35						
16 - Coil Services													
Job: 1601 - Coil Services Design-GORANSON													
FY07 Rebaseline Exercise													
ECP53RBX08	FY07 Rebaseline exercise	22*	01MAY07*	31MAY07		1,333	6,228.80						
161 - LN2 Distribution													
191-001	Title I design WBS 161 LN2 manifolds&pipng	90	04SEP07*	18JAN08		377	84,575.54						
191-002	PDR WBS 161 LN2 manifolds&pipng	1	21JAN08*	21JAN08		377	1,294.08						
191-011	Title II design WBS 161 LN2 manifolds&pipng	90	22JAN08	27MAY08		377	85,247.52						
191-012	FDR WBS 161 LN2 manifolds&pipng	1	28MAY08	28MAY08		377	1,294.08						
191-037	Prep Req,Bid,Award-manifolds,hoses,valves etc	25	02SEP08*	06OCT08		498	0.00						
191-038	Delivery of-manifolds,hoses,valves etc	40	07OCT08*	03DEC08		498	81,878.17						
191-041	Assemble manifolds and piping	110	01JUL09*	07DEC09		357	61,792.50						
191-031	Title III engr WBS 161	362	29MAY08	05NOV09		377	30,101.97						
162 - Electrical Leads													
132-001	Title I design WBS 162 Coil leads	188	04SEP07*	05JUN08		331	147,290.71						
132-002	PDR WBS 162 Coil leads	1	06JUN08*	06JUN08		331	1,294.08						
132-011	Title II design WBS 162 Coil leads	190	09JUN08	16MAR09		435	154,013.33						
132-012	FDR WBS 162 Coil leads	1	17MAR09	17MAR09		435	1,387.28						
132-015	Title III design WBS 162 Coil leads	99	18MAR09*	05AUG09		507	19,075.10						
132-037	Prep Req,Bid,Award Lead hardware and cables	25	26AUG09	30SEP09		322	0.00						
132-038	Deliver Lead hardware and cables	65	01OCT09*	13JAN10		322	118,068.40						
132-047	Prep Req,Bid,Award Material for transition box	25	28JUL09*	31AUG09		409	0.00						
132-048	Deliver Material for Transition Boxes	40	01SEP09*	27OCT09		409	9,782.29						
132-049	Assemble Transition boxes (6)	40	28OCT09*	05JAN10		409	20,462.40						
163 - Coil Protection System													
163.001	Design Coil protection(input to WBS 4 & 5)	65	01OCT07*	10JAN08		532	35,587.20						
17 - Cryostat and Base Support Structure													
Job: 1702 - Base Support Struct Design-DAHLGREN													
1702-510	Base support structure prel. design & analysis	40	01OCT07*	23NOV07		416	74,675.52						
1702-515	Conduct PDR	1	26NOV07	26NOV07		416	743.04						
1702-520	Final design. Assy dwgs, fab dwgs, BOMs,specs/SO	40	27NOV07	01FEB08		416	74,675.52						
1702-525	FDR	1	04FEB08	04FEB08		416	743.04						
1702-530	Resolve chits, issue dwgs for fab,Issue requisit	20	05FEB08	03MAR08		416	12,631.68						
Job: 1752 - Base Support Proc-DAHLGREN													
172 - Base Support Structure													
161-036.8	Bid and award base support materials	25	04MAR08*	07APR08		416	0.00						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
161-036.9	Deliver base support materials	45	08APR08	10JUN08		416	39,240.00						
161-037	PPPL assemble structure	65	11JUN08*	11SEP08		416	20,668.38						
161-038	Title III	135	04MAR08*	11SEP08		1,012	8,173.44						
Job: 1701 - Cryostat Design-GETTLEFINGER													
1701-100	Cryostat- Conceptual Design	185	01OCT07*	27JUN08		316	15,435.84						
1701-101	Cryostat- Preliminary Design	70	30JUN08*	07OCT08		316	71,506.82						
1701-102	Cryostat- Stress analysis	40	12AUG08*	07OCT08		316	37,288.25						
1701-103	Cryostat- Joint R&D	10	24SEP08*	07OCT08		316	3,251.40						
1701-121	Cryostat- PDR	1	08OCT08	08OCT08		316	1,324.00						
1701-131	Cryostat- Final Design	70	09OCT08	27JAN09		316	73,446.84						
1701-141	Cryostat- FDR	1	28JAN09	28JAN09		316	1,324.00						
Job: 1751 - Cryostat Procurement-GETTLEFINGER													
1751-151	Cryostat- Procure Materials and Supplies	65	01OCT09*	13JAN10		331	169,405.60						
1751-161	Cryostat- Fabricate Components	25	14JAN10	17FEB10		331	85,260.00						
1751-171	Cryostat- Title III	90	01OCT09	17FEB10		660	61,606.80						
18 - Field Period Assembly													
Job: 1803 - FP Asy Tooling/Constrblty-BROWN													
Station 2-Modular Coil Sub- Assembly													
1803-2.1	Assembly sequence plan drafted	20	01MAY07	29MAY07		284	0.00						
1803-2.2	Dimensional control plan drafted	20	01MAY07	29MAY07		284	0.00						
Station 3-Modular Coil to VVSA Assembly													
1803-3.2	Finalize drawings for internal review and outsid	3	04JUN07	06JUN07		364	0.00						
1803-3.3	Analyze single point lift	10	07JUN07	20JUN07		364	9,957.36						
1803-3.4	Stage 3 support FDR	1	21JUN07*	21JUN07		364	0.00						
1803-3.5	Flange bolt/VV support access platform	8	14MAY07*	23MAY07		353	6,886.80						
1803-3.6	Revise drawings per FDR input and release for Fa	2	24MAY07	25MAY07		353	2,754.72						
1803-3.7	Transportation study (move between test cells)	2	29MAY07	30MAY07		400	2,295.60						
1803-3.8	Generate laser trace drawing for each screen	20	22JUN07	20JUL07		364	4,591.20						
1803-3.9	Assembly sequence plan and Installation procedur	18	07MAY07*	31MAY07		378	7,112.40						
R1802-305	Metrology plan	20	18MAY07*	15JUN07		388	0.00						
1803-3.10	VV/MC clearance report (for VVSA1, 2 and 3)	21	01JUN07	29JUN07		378	12,802.32						
1803-3.11	Procure materials and fixture	65	29MAY07	28AUG07		353	56,782.00						
Station 5-Final Field Period Assembly													
1803-5.1	Complete FP support models	20	24SEP07*	19OCT07		402	19,748.48						
1803-5.2	Complete platform models	5	22OCT07	26OCT07		402	4,796.40						
1803-5.3	PDR	1	05NOV07	05NOV07		405	0.00						
R1802-503	Sequence plan	20	06NOV07*	05DEC07		438	0.00						
R1802-505	Metrology plan	20	06NOV07*	05DEC07		438	0.00						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
1803-5.4	Structural Analysis	10	22OCT07*	02NOV07		411	11,145.60						
1803-5.5	Complete drawing package	9	29OCT07	08NOV07		402	10,369.20						
1803-5.6	FDR	1	16NOV07	16NOV07		402	0.00						
1803-5.7	Revise drawings per FDR input and release for Fa	2	19NOV07	20NOV07		402	2,877.84						
1803-5.8	Complete models and dwgs for test cell metrology	9	21NOV07	05DEC07		438	9,592.80						
1803-5.9	Procure materials and fixture	65	21NOV07	03MAR08		402	23,936.40						
6.00-Final Machine Assembly													
1803-6.1	Complete Stage 6 support models	20	02JUL07*	30JUL07		607	20,886.00						
1803-6.2	Complete platform models	10	31JUL07	13AUG07		607	11,703.60						
1803-6.3	Structural Analysis	20	02JUL07*	30JUL07		617	21,337.20						
1803-6.4	PDR	1	14AUG07	14AUG07		607	0.00						
1803-6.5	Complete drawing package	15	15AUG07	05SEP07		607	16,294.80						
1803-6.6	FDR	1	13SEP07	13SEP07		607	0.00						
1803-6.7	Revise drawings per FDR input and release for Fa	2	14SEP07	17SEP07		607	0.00						
1803-6.8	Procure materials and fixture	65	18SEP07	19DEC07		607	129,679.07						
Job: 1806 - FP Assembly specs and drawings-COLE													
1.00-VV Prep Station													
1803-609	Detail dwgs-spool piece	50	02APR08	11JUN08		1,057	10,034.40						
Station 2-Modular Coil Sub- Assembly													
1803-201	Station 2 Assembly Specification	65	01MAY07*	01AUG07		239	12,457.60						
1803-205	Station 2 Assembly Drawings	65	01MAY07*	01AUG07		239	13,200.00						
Station 3-Modular Coil to VVSA Assembly													
1803-301	Station 3 Assembly Specification	90	02AUG07	10DEC07		266	25,441.35						
1803-305	Station 3 Assembly Drawings	90	02AUG07	10DEC07		266	13,297.56						
Station 5-Final Field Period Assembly													
1803-501	Station 5 Assembly Specification	70	11DEC07	26MAR08		365	12,940.80						
1803-505	Station 5 Assembly Drawings	70	11DEC07	26MAR08		365	20,068.80						
1803-509	Field period Assy Dwgs	70	11DEC07	26MAR08		365	13,379.20						
1803-611	Detail dwgs-welding ports	70	11DEC07	26MAR08		365	13,379.20						
6.00-Final Machine Assembly													
1803-601	Station 6 Assembly Specification	160	03MAR08*	15OCT08		347	58,521.94						
1803-605	Station 6 Assembly Drawings	160	03MAR08*	15OCT08		347	26,826.38						
1803-613	Detail dwgs-man access port	160	03MAR08*	15OCT08		347	6,706.60						
1803-010	Models,design reviews	369	01MAY07*	17OCT08		986	84,702.17						
Job: 1802 - FP Assy Oversight&Support-VIOLA													
Station 2-Modular Coil Sub- Assembly													
R1802-207	Procedures written & approved	14	02AUG07*	21AUG07		239	0.00						
R1802-209	JHA completed	6	22AUG07	29AUG07		239	0.00						
R1802-211	Training needs identified & released	6	30AUG07	07SEP07		239	0.00						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year							
								FY07	FY08	FY09	FY10	FY11	FY12		
R1802-213	ACC review completed	2	10SEP07	11SEP07		239	0.00		Viola						
R1802-215	Pre-job brief completed	1	12SEP07	12SEP07		239	0.00		Viola						
R1802-217	Station 2 operational	1	13SEP07	13SEP07		239	0.00		Viola						
Station 3-Modular Coil to VVSA Assembly															
R1802-307	Procedures written & approved	10	11DEC07	02JAN08		266	0.00		Viola						
R1802-309	JHA completed	6	03JAN08	10JAN08		266	0.00		Viola						
R1802-319	Fixtures installed	6	11JAN08	18JAN08		266	0.00		Viola						
R1802-311	Training needs identified & released	6	21JAN08	28JAN08		266	0.00		Viola						
R1802-313	ACC review completed	6	29JAN08	05FEB08		266	0.00		Viola						
R1802-315	Pre-job brief completed	6	06FEB08	13FEB08		266	0.00		Viola						
R1802-317	Station 3 operational	1	14FEB08	14FEB08		266	0.00		Viola						
Station 5-Final Field Period Assembly															
R1802-507	Procedures written & approved	14	27MAR08	15APR08		365	0.00		Viola						
R1802-509	JHA completed	6	16APR08	23APR08		365	0.00		Viola						
R1802-519	Fixtures installed	6	24APR08	01MAY08		365	0.00		Viola						
R1802-511	Training needs identified & released	6	02MAY08	09MAY08		365	0.00		Viola						
R1802-513	ACC review completed	7	12MAY08	20MAY08		365	0.00		Viola						
R1802-515	Pre-job brief completed	7	21MAY08	30MAY08		365	0.00		Viola						
R1802-517	Station 5 operational	1	02JUN08	02JUN08		365	0.00		Viola						
Oversight and Supervision															
R1802-001	Metrology Engr Super FY07	106*	01MAY07*	28SEP07		1,249	64,011.60		EA/EM =360hr ;						
R1802-003	Metrology Engr Super FY08	250*	01OCT07*	30SEP08		999	160,310.88		EA/EM =863hr ;						
R1802-004	Metrology Engr Super FY09	248	01OCT08*	29SEP09		751	165,014.23		EA/EM =863hr ;						
R1802-004S	Metrology Engr Super FY09 2nd shft	57*	10JUL09*	29SEP09	2	751	37,928.42		EA/EM =198hr ;						
R1802-005	FPA Management FY07	106*	01MAY07*	28SEP07		1,249	117,941.68		EM/EM =719hr ; 41=06\$K ;						
R1802-007	FPA Management FY08	250*	01OCT07*	30SEP08		999	277,523.54		EM/EM =1,726hr ;						
R1802-008	FPA Management FY09	248	01OCT08*	29SEP09		751	285,653.00		EM/EM =1726hr ;						
R1802-009	Title III field period assy FY07 ORNL	106*	01MAY07*	28SEP07		1,249	43,757.32		ORNLEM =281hr ;						
R1802-011	Title III field period assy FY08 ORNL	250*	01OCT07*	30SEP08		999	181,913.12		ORNLEM =562hr ; ornlem (PJ)=400; travel=25						
R1802-013	HP Coverage in the TFTR TC LOE FY07	106*	01MAY07*	28SEP07		1,249	60,432.68		SH/TB =539 ;						
R1802-015	HP Coverage in the TFTR TC LOE FY08	250*	01OCT07*	30SEP08		999	149,857.40		SH/TB =1,295 ;						
R1802-016	HP Coverage in the TFTR TC LOE FY08	188	01OCT08*	06JUL09		811	115,994.08		SH/TB =973 (.75 fte) ;						
Job:1810-Field Period Assy -Station 1,2,3 VIOLA															
General F.P. Assy support															
161-031	Title III engr WBS 172	240	01MAY07	16APR08		1,115	9,465.35		EM/EM =60hr ;						
R1810-001	LOE Crane support, fixture setupfor FY07	106*	01MAY07*	28SEP07		1,249	66,183.47		EM/TB =863hr ;						
R1810-003	LOE Crane support, fixture setupfor FY08	250*	01OCT07*	30SEP08		999	165,923.83		EM/TB =2,071hr ;						
R1810-004	LOE Crane support, fixture setupfor FY09	248	01OCT08*	29SEP09		751	169,326.66		EM/TB =2053hr ;						
R1810-004S	LOE Crane support, fixture setupfor FY09 2nd sh	57*	10JUL09*	29SEP09	2	751	38,917.82		EM/TB =471hr ;						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year										
								FY07	FY08	FY09	FY10	FY11	FY12					
R1810-005	LOE Field Supervision for FY07	106*	01MAY07*	28SEP07		1,249	98,014.08	EE//SM =719hr;										
R1810-007	LOE Field Supervision for FY08	250*	01OCT07*	30SEP08		999	245,765.14	EE//SM =1,726hr;										
R1810-008	LOE Field Supervision for FY09	248	01OCT08*	29SEP09		751	252,962.56	EE//SM =1726hr;										
R1810-008S	LOE Field Supervision for FY09 2nd shft	57*	10JUL09*	29SEP09	2	751	57,642.05	EE//SM =393hr;										
R1810-009	LOE Metrology sprt FY07 (1.5 engr plus 1.0 tb)	106*	01MAY07*	28SEP07		1,249	221,065.87	EM//EM =1,078hr; EM//TB =719hr;										
R1810-011	LOE Metrology sprt FY08 (1.5 engr plus 1.0 tb)	250*	01OCT07*	30SEP08		999	554,555.17	EM//EM =2,589hr; EM//TB =1,726hr;										
R1810-012	LOE Metrology sprt FY09 (1.5 engr plus 1.0 tb)	248	01OCT08*	29SEP09		751	567,541.80	EM//EM =2569hr; EM//TB =1726hr;										
R1810-012	LOE Metrology sprt FY09 (1.5 engr plus 1.0 tb)2s	57*	10JUL09*	29SEP09	2	751	130,162.58	EM//EM =590hr; EM//TB =1393hr;										
R1810-013	Misc M&S FY07	106*	01MAY07*	28SEP07		1,249	19,140.00	41=15\$;										
R1810-015	Misc M&S FY08	250*	01OCT07*	30SEP08		999	47,088.00	41=36\$;										
R1810-016	Misc M&S FY09	248	01OCT08*	29SEP09		751	37,719.00	41=27\$;										
Station 1-VV Prep (hard surface components) FP#1																		
R1810-1105	Weld cooling/htg risers	10	01MAY07	14MAY07	1	407	17,890.00	EM//TB =200hr; 41=02\$;										
R1810-1107	Verify Instl of H/C lines,headers,manifolds	5	15MAY07	21MAY07	1	447	7,669.00	EM//TB =100hr;										
R1810-1108	Perform final acceptance testing (H/C flow test)	5	22MAY07	29MAY07	1	447	12,773.00	EM//TB =100hr; 41=04\$;										
R1810-1112	Trim seal plates	2	30MAY07	31MAY07	1	447	3,067.60	EM//TB =40hr;										
R1810-1109	Loop termination & verification	18	09NOV07	06DEC07	1	334	28,839.60	EM//TB =360hr;										
R1810-1110	Install Final Internal&Ext monuments & meas	2	07DEC07	10DEC07	1	334	6,408.80	EM//TB =80hr;										
R1810-1111	Final Scan	4	11DEC07	14DEC07	1	334	6,408.80	EM//TB =80hr;										
R1810-1114	Install heater tape on removable ports	6	17DEC07	02JAN08	1	334	9,613.20	EM//TB =120hr;										
R1810-1113	Prepare &transfer completed VV to holding area	2	03JAN08	04JAN08	1	334	3,204.40	EM//TB =40hr;										
Station 1- VV Prep (hrd surf cmpntsFP#2																		
R1810-1203	Misc Hardware	106*	01MAY07	28SEP07		1,249	2,552.00	41=02\$;										
R1810-1205	Install local I&C (incl thermocouples)	5	15MAY07	21MAY07	1	407	7,669.00	EM//TB =100hr;										
R1810-1207	Verify installation of local I&C	2	22MAY07	23MAY07	1	407	3,067.60	EM//TB =40hr;										
R1810-1209	Install cooling/htg lines to vac vsl	15	21JUN07	12JUL07	1	407	23,007.00	EM//TB =300hr;										
R1810-1211	Weld cooling/htg risers	10	13JUL07	26JUL07	1	407	17,890.00	EM//TB =200hr; 41=02\$;										
R1810-1213	Verify Instl of H/C lines,headers,manifolds	5	07JAN08	11JAN08	1	374	8,011.00	EM//TB =100hr;										
R1810-1208	Perform final acceptance testing (H/C flow test)	5	14JAN08	18JAN08	1	374	13,243.00	EM//TB =100hr; 41=04\$;										
R1810-1212	Trim seal plates	2	21JAN08	22JAN08	1	374	3,204.40	EM//TB =40hr;										
R1810-1215	Loop termination & verification	18	23JAN08	15FEB08	1	374	28,839.60	EM//TB =360hr;										
R1810-1216	Install Final Internal&Ext monuments & meas	2	18FEB08	19FEB08	1	374	6,408.80	EM//TB =80hr;										
R1810-1217	Final Scan	4	20FEB08	25FEB08	1	374	6,408.80	EM//TB =80hr;										
R1810-1214	Install heater tape on removable ports	6	26FEB08	04MAR08	1	374	9,613.20	EM//TB =120hr;										
R1810-1219	Prepare& transfer completed VV to holding area	2	05MAR08	06MAR08	1	374	3,204.40	EM//TB =40hr;										
Station 1- VV Prep (hrd surf cmpntsFP#3																		
R1810-1303	Misc Hardware	154*	15MAY07*	21DEC07		1,191	2,576.10	EM//TB =00hr; 41=02\$;										
R1810-1305	Install heater tape on vertical ports	7	24MAY07	04JUN07	1	407	10,736.60	EM//TB =140hr;										
R1810-1314	Install heater tape on removable ports	6	05JUN07	12JUN07	1	407	9,202.80	EM//TB =120hr;										

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
R1810-1311	Wind magnetic diagnostic sensors	14	27JUL07	15AUG07	1	407	21,473.20						
R1810-1312	Trim seal plates	2	13JUN07	14JUN07	1	407	3,067.60						
R1810-1307	Verify installation of heater tapes	1	15JUN07	15JUN07	1	407	1,533.80						
R1810-1309	Attach studs for coolant lines	3	18JUN07	20JUN07	1	407	7,153.40						
R1810-1313	Install precision magnetic diagnostic sensors	3	16AUG07	20AUG07	1	407	4,601.40						
R1810-1315	Verify installation magnetic diagnostic sensors	4	21AUG07	24AUG07	1	407	6,135.20						
R1810-1317	Install local I&C (incl thermocouples)	5	07MAR08	13MAR08	1	398	8,011.00						
R1810-1319	Verify installation of local I&C	2	14MAR08	17MAR08	1	398	3,204.40						
R1810-1321	Install cooling/htg lines to vac vsl	15	18MAR08	07APR08	1	398	24,033.00						
R1810-1323	Weld cooling/htg risers	10	08APR08	21APR08	1	398	18,638.00						
R1810-1325	Verify Instl of H/C lines,headers,manifolds	5	22APR08	28APR08	1	398	8,011.00						
R1810-1308	Perform final acceptance testing (H/C flow test)	5	29APR08	05MAY08	1	398	13,243.00						
R1810-1327	Loop termination & verification	18	06MAY08	30MAY08	1	398	28,839.60						
R1810-1328	Install Final Internal&Ext monuments & meas	2	02JUN08	03JUN08	1	398	6,408.80						
R1810-1329	Final Scan	4	04JUN08	09JUN08	1	398	6,408.80						
R1810-1331	Prepare & transfer completed VV to holding area	2	10JUN08	11JUN08	1	398	3,204.40						
Station 1-Spool pieces (3) (spacers)													
R1810-1S03	Attachdiagnostics, studs and coolant lines	17	12JUN08	07JUL08	1	1,057	27,237.40						
R1810-1S04	Install Final Internal&Ext monuments & meas	2	08JUL08	09JUL08	1	1,057	3,204.40						
Station 2 Trials & Development													
R1810-2003	Trial tensioning test on prototype	2	01MAY07*	02MAY07	1	1,353	6,895.60						
R1810-2005	Trial bushing and shim test on prototype	12	01MAY07*	16MAY07	1	1,343	20,957.60						
R1810-2009	Perform trial x-y-z alignments on A1-A2.	7	01MAY07*	09MAY07	1	291	13,288.60						
R1810-2010	Perform developmental trials on A1-A2.	30	10MAY07*	21JUN07	1	291	48,566.00						
R1810-2011	Alignment mechanisms, metro equipt & positioning	6	22JUN07	29JUN07	1	291	60,242.80						
R1810-2013	Procure alignment mechanisms, fiducials, lifting	20	01MAY07*	29MAY07	1	1,335	62,576.00						
R1810-2015	Develop procedures for torquing bolts	4	01MAY07*	04MAY07	1	1,340	6,135.20						
R1810-2017	Determine fiducial types&locations	11	07MAY07	21MAY07	1	1,340	19,423.80						
R1810-2019	Procure monuments&related metrology equipment	15	01MAY07*	21MAY07	1	1,340	42,147.00						
R1810-2023	Install FIRST Holding 20 deg fixture	4	22JAN07A	04MAY07A	1		0.00						
R1810-2025	Install SECOND Holding 20 deg fixture	3	01MAY07*	03MAY07	1	331	7,153.40						
R1810-2027	Install THIRD Holding 20 deg fixture	6	01MAY07*	08MAY07	1	328	11,754.80						
R1810-2029	Install LAST Holding 20 deg fixture	3	06JUN07*	08JUN07	1	306	7,153.40						
R1810-2021	Tools&tooling available for FPA operations	0		29JUN07	1	291	0.00						
R1810-2001	Misc Hardware and hardware rework (1/2 fte loe)	459*	01MAY07	05MAR09	1	225	89,859.46						
Station 2-Modular Coil Subassembly-FP#1													
R1810-2002	Test out Equip & Procedures	7	01OCT07	09OCT07	1	221	11,215.40						
R1810-2004	Receive Drawings & Hardware (shims & Bolts)	7	01OCT07	09OCT07	1	221	11,215.40						
R1810-2108	HARDWARE,DRAWINGS,& PROCURES AVAILABLE	0		09OCT07	1	221	0.00						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year							
								FY07	FY08	FY09	FY10	FY11	FY12		
R1810-2109	Begin A1/B1/C1 Mobilize	1	10OCT07	10OCT07	1	221	1,602.20								
R1810-2110	Re-measure Type A "A" flange	3	11OCT07	15OCT07	1	221	4,005.50								
R1810-2111	Pre-fit & install alignment tooling A1-A2	4	16OCT07	19OCT07	1	221	6,408.80								
R1810-2113	Align A1-A2& with 3 shims and studs	2	22OCT07	23OCT07	1	221	3,204.40								
R1810-2114	Measure A1-A2 shims with gage blocks	1	24OCT07	24OCT07	1	221	801.10								
R1810-2116	install 3 bushings for alignment A1-A2	2	25OCT07	26OCT07	1	221	3,204.40								
R1810-2143	Begin 3 pack A1/B1/C1 Install A1	3	29OCT07	31OCT07	1	221	4,806.60								
R1810-2145	Align A1-B1 with 3 shims and studs	2	01NOV07	02NOV07	1	221	3,204.40								
R1810-2117	Install shims with Fuji paper	1	05NOV07	05NOV07	1	221	1,602.20								
R1810-2118	Install studs	1	06NOV07	06NOV07	1	221	801.10								
R1810-2126	Measure shims with gage blocks	1	07NOV07	07NOV07	1	221	801.10								
R1810-2119	measure/grind/install nose shims	3	08NOV07	12NOV07	1	221	8,011.00								
R1810-2120	Tension 50%	1	13NOV07	13NOV07	1	221	3,204.40								
R1810-2123	Measure nose shims	1	14NOV07	14NOV07	1	221	1,602.20								
R1810-2125	Verify alignment A1-B1	2	15NOV07	16NOV07	1	221	3,204.40								
R1810-2128	Tack nose shim one side	1	19NOV07	19NOV07	1	221	1,602.20								
R1810-2127	De Tension & remove Fuji	1	20NOV07	20NOV07	1	221	3,204.40								
R1810-2131	Final adjustment to shims-install final outboard	2	21NOV07	22NOV07	1	221	6,408.80								
R1810-2135	Re Tension 50%	1	23NOV07	23NOV07	1	221	3,204.40								
R1810-2132	Fabricate Nose Clamps	10	12NOV07	23NOV07	1	221	32,044.00								
R1810-2133	Install Nose Clamps	10	26NOV07	11DEC07	1	221	32,044.00								
R1810-2134	Weld nose	3	12DEC07	14DEC07	1	221	4,806.60								
R1810-2137	Verify alignment A1-B1	2	17DEC07	18DEC07	1	221	3,204.40								
R1810-2138	Meas&instl bushings 2 at a time	4	19DEC07	02JAN08	1	221	6,408.80								
R1810-2139	Tension 100%	1	03JAN08	03JAN08	1	221	3,204.40								
R1810-2140	Verify alignment A1-B1	2	04JAN08	07JAN08	1	221	3,204.40								
R1810-2141	Pre-fit C1-C5	7	11OCT07	19OCT07	1	236	17,944.64								
R1810-2142	Perform C-C mating areas need painting	2	22OCT07	23OCT07	1	236	6,408.80								
R1810-2144	Epoxy Paint wings and close surfaces	3	24OCT07	26OCT07	1	236	4,806.60								
R1810-2147	Fit B1-C1	50	08JAN08	17MAR08	1	221	126,573.80								
R1810-2149	Verify Align Mod-Coils A1/B1/C1	5	18MAR08	24MAR08	1	221	8,011.00								
R1810-2151	Pre-fit C2-C3	12	29OCT07	13NOV07	1	236	29,160.04								
R1810-2152	Re-measure Type A "A" flange	3	14NOV07	16NOV07	1	236	4,005.50								
R1810-2153	Fit A2-B2	50	19NOV07	07FEB08	1	236	126,573.80								
R1810-2155	Fit B2-C2	50	08FEB08	17APR08	1	236	126,573.80								
R1810-2157	Verify Align Mod-Coils A2/B2/C2	5	18APR08	24APR08	1	236	8,011.00								
Station 2-Modular Coil Subassembly-FP#2															
R1810-2201	Re-measure Type A "A" flange	3	25MAR08	27MAR08	1	221	4,005.50								
R1810-2202	Fit A3/A4	8	28MAR08	08APR08	1	221	13,618.70								

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year										
								FY07	FY08	FY09	FY10	FY11	FY12					
R1810-2203	Assemble/Align Mod-Coils A3/B3/C3	104	09APR08	04SEP08	1	247	261,158.60											
R1810-2205	Pre-fit C6-C4	12	25APR08	12MAY08	1	254	29,160.04											
R1810-2206	Re-measure Type A "A" flange	3	09APR08	11APR08	1	221	4,005.50											
R1810-2207	Assemble/Align Mod-Coils A4/B4/C4	104	14APR08	09SEP08	1	221	261,158.60											
Station 2-Modular Coil Subassembly-FP#3																		
R1810-2301	Re-measure Type A "A" flange	3	10SEP08	12SEP08	1	221	4,005.50											
R1810-2302	Fit A5/A6	8	15SEP08	24SEP08	1	221	13,618.70											
R1810-2303	Assemble/Align Mod-Coils A5/B5/C5	104	25SEP08	02MAR09	1	221	268,524.95											
R1810-2304	Re-measure Type A "A" flange	3	25SEP08	29SEP08	1	225	4,005.50											
R1810-2305	Assemble/Align Mod-Coils A6/B6/C6	104	30SEP08	05MAR09	1	225	268,745.94											
Station 3-Assemble Mod Coils and VVSA-FP#1																		
R1810-3104	Procure 3 legged actuator system	20	26FEB08	24MAR08	1	236	56,244.00											
R1810-3106	Load test 3 ledged actuator system	3	25MAR08	27MAR08	1	236	7,690.56											
R1810-3108	Procure ,Fabricate 3 legged actuator lift fixtur	20	19FEB08	17MAR08	1	236	7,848.00											
R1810-3112	Load Test 3 legged actuator lift fixtur	8	18MAR08	27MAR08	1	236	10,254.08											
R1810-3101	Begin Assembly of First Field Period Assy	2	28MAR08	31MAR08	1	236	3,204.40											
R1810-3102	Misc M&S	123*	28MAR08	19SEP08	1	236	6,540.00											
R1810-3150	Fab New legs	4	26MAR08	31MAR08	1	236	5,127.04											
R1810-3103	Install station 3 platforms (8 required)	4	01APR08	04APR08	1	236	22,052.32											
R1810-3153	Pre-installation set-up (steps 1.x)	7	07APR08	15APR08	1	236	14,419.80											
R1810-3157	Pre assemble left MCHP (steps 2.x)	7	16APR08	24APR08	1	236	11,215.40											
R1810-3161	Pre-assemble right MCHP (steps 3.x)	7	25APR08	05MAY08	1	236	10,414.30											
R1810-2121	Measure Bushings A1-A2	1	06MAY08	06MAY08	1	236	801.10											
R1810-2122	Install Bushings A1-A2	2	07MAY08	08MAY08	1	236	3,204.40											
R1810-3105	Install & align station 3 screens (steps 4.x)	5	09MAY08	15MAY08	1	236	10,627.00											
R1810-3107	Test out station 3 equipment and procedures	4	16MAY08	21MAY08	1	236	19,488.80											
R1810-3111	VV#1 to MC turning fixt base; metr check	3	22MAY08	27MAY08	1	236	4,806.60											
R1810-3113	Attach local protective strips to VV&locate sens	2	28MAY08	29MAY08	1	236	3,204.40											
R1810-3115	Mount MC on crane; perform metr checks	4	30MAY08	04JUN08	1	236	16,872.80											
R1810-3117	Rotate right MC to stand-off position&chk	3	05JUN08	09JUN08	1	236	4,806.60											
R1810-3119	Transfer load to sprt sys and recheck position	3	10JUN08	12JUN08	1	236	4,806.60											
R1810-3121	Move MC turning fixt; mount MC on crane	3	13JUN08	17JUN08	1	236	8,011.00											
R1810-3123	Rotate left MC to stand-off position and check p	3	18JUN08	20JUN08	1	236	8,011.00											
R1810-3125	Move left & right MC to final position & measure	2	23JUN08	24JUN08	1	236	9,613.20											
R1810-3129	Bolt together at flange interface.	40	25JUN08	20AUG08	1	236	64,088.00											
R1810-3131	Perform final metrology position check	2	21AUG08	22AUG08	1	236	3,204.40											
R1810-2115	Clamp and Weld Nose A1-A2	3	25AUG08	27AUG08	1	236	22,824.40											
R1810-3133	Remove temp interference strips&sensors	1	28AUG08	28AUG08	1	236	1,602.20											
R1810-3135	Secure VV to MC's using temporary supports.	5	29AUG08	05SEP08	1	236	8,011.00											

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
R1810-3137	Prepare Field Period for shipment	5	08SEP08	12SEP08	1	236	8,011.00						
R1810-3139	Transfer completed assy to C-site test cell	5	15SEP08	19SEP08	1	236	16,022.00						
Station 3-Assemble Mod Coils and VVSA-FP#2													
R1810-3257	Pre assemble left MCHP (steps 2.x)	7	22SEP08	30SEP08	1	236	11,215.40						
R1810-3261	Pre-assemble right MCHP (steps 3.x)	7	01OCT08	09OCT08	1	236	10,719.80						
R1810-2221	Measure Bushings A3-A4	1	10OCT08	10OCT08	1	236	824.60						
R1810-2222	Install Bushings A3-A4	2	13OCT08	14OCT08	1	236	3,298.40						
R1810-3263	Install & align station 3 screens (steps 4.x)	5	15OCT08	21OCT08	1	236	11,040.00						
R1810-3203	Mount VV#2 to MC turning fixt base; metr check	3	22OCT08	24OCT08	1	236	4,947.60						
R1810-3205	Attach local protective strips to VV&locate sens	1	27OCT08	27OCT08	1	236	3,298.40						
R1810-3207	Mount MC on crane; perform metr checks	4	28OCT08	31OCT08	1	236	6,596.80						
R1810-3209	Rotate right MC to stand-off position&chk	3	03NOV08	05NOV08	1	236	4,947.60						
R1810-3211	Transfer load to supt sys and recheck position	3	06NOV08	10NOV08	1	236	4,947.60						
R1810-3213	Move MC turning fixt; mount MC on crane	3	11NOV08	13NOV08	1	236	8,246.00						
R1810-3215	Rotate left MC to stand-off position and check p	3	14NOV08	18NOV08	1	236	8,246.00						
R1810-3217	Move left & right MC to final position & measure	2	19NOV08	20NOV08	1	236	9,895.20						
R1810-3221	Bolt together at flange interface.	36	21NOV08	22JAN09	1	236	57,722.00						
R1810-3223	Perform final metrology position check	3	23JAN09	27JAN09	1	236	4,947.60						
R1810-2215	Clamp and Weld Nose A3-A4	3	28JAN09	30JAN09	1	236	24,253.40						
R1810-3225	Remove temp interference strips&sensors	1	02FEB09	02FEB09	1	236	1,649.20						
R1810-3227	Secure VV to MC's using temporary supports.	2	03FEB09	04FEB09	1	236	8,246.00						
R1810-3229	Prepare Field Period for shipment	2	05FEB09	06FEB09	1	236	8,246.00						
R1810-3231	Transfer completed assy to C-site test cell	1	09FEB09	09FEB09	1	236	16,492.00						
Station 3-Assemble Mod Coils and VVSA-FP#3													
R1810-3357	Pre assemble left MCHP (steps 2.x)	7	03MAR09	11MAR09	1	221	11,544.40						
R1810-3361	Pre-assemble right MCHP (steps 3.x)	7	12MAR09	20MAR09	1	221	10,719.80						
R1810-2321	Measure Bushings A5-A6	1	23MAR09	23MAR09	1	221	824.60						
R1810-2322	Install Bushings A5-A6	2	24MAR09	25MAR09	1	221	3,298.40						
R1810-3363	Install & align station 3 screens (steps 4.x)	5	26MAR09	01APR09	1	221	11,040.00						
R1810-3303	Mount VV to MC turning fixt base; metr check	3	02APR09	06APR09	1	221	4,947.60						
R1810-3305	Attach local protective strips to VV&locate sens	1	07APR09	07APR09	1	221	3,298.40						
R1810-3307	Mount MC on crane; perform metr checks	3	08APR09	10APR09	1	221	6,596.80						
R1810-3309	Rotate right MC to stand-off position&chk	3	13APR09	15APR09	1	221	4,947.60						
R1810-3311	Transfer load to supt sysand recheck position	3	16APR09	20APR09	1	221	4,947.60						
R1810-3313	Move MC turning fixt; mount MC on crane	3	21APR09	23APR09	1	221	8,246.00						
R1810-3315	Rotate left MC to stand-off position and check p	3	24APR09	28APR09	1	221	8,246.00						
R1810-3317	Move left & right MC to final position & measure	2	29APR09	30APR09	1	221	9,895.20						
R1810-3321	Bolt together at flange interface.	36	01MAY09	22JUN09	1	221	57,722.00						
R1810-3323	Perform final metrology position check	3	23JUN09	25JUN09	1	221	4,947.60						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
R1810-2315	Clamp and Weld Nose A5-A6	3	26JUN09	30JUN09	1	221	24,253.40						
R1810-3325	Remove temp interference strips&sensors	1	01JUL09	01JUL09	1	221	1,649.20						
R1810-3327	Secure VV to MC's using temporary supports.	2	02JUL09	06JUL09	1	221	8,246.00						
R1810-3329	Prepare Field Period for shipment	2	07JUL09	08JUL09	1	221	8,246.00						
R1810-3331	Transfer completed assy to C-site test cell	1	09JUL09	09JUL09	1	221	16,492.00						
Job: 1815 - Field Period Assy -Station 5-VIOLA													
Station 5- Final FP Assy -FP#1 (in NCSX TC)													
R1810-5101	MTM NCR hardware re-purchase	25	28APR08	02JUN08	1	365	54,936.00						
R1810-5112	Weld wire & welding supplies	25	28APR08	02JUN08	1	365	19,620.00						
R1810-5102	Monuments,reflectors,CCR's	10	05MAY08	16MAY08	1	365	60,338.04						
R1810-5103	metrology network in NCSX TC	10	19MAY08	02JUN08	1	365	21,973.60						
R1810-5106	Testout Sta 5 equipt & procedures	5	03JUN08	09JUN08	1	365	12,817.60						
R1810-5107	Check 3 sled interfaces adjust holes	12	10JUN08	25JUN08	1	365	30,762.24						
R1810-5108	Fixtures installed-final metrology	6	26JUN08*	03JUL08	1	365	15,381.12						
R1810-5109	Begin Station 5 Operations	0		19SEP08*	1	311	0.00						
R1810-5110	Install on support platform	15	22SEP08	10OCT08	1	311	65,083.60						
R1810-5111	Mount MC/VV assembly to support frame a	2	13OCT08	14OCT08	1	311	3,298.40						
R1810-5113	Position and weld all ports to VV	30	15OCT08	25NOV08	1	311	49,476.00						
R1810-5114	Bolt-on 2 port extensions for diagnostics	1	26NOV08	26NOV08	1	314	1,319.36						
R1810-5115	Inspect Welds	4	26NOV08	03DEC08	1	311	6,596.80						
R1810-5117	Assemble left TF Coil Assembly check position	8	04DEC08	15DEC08	1	311	21,109.76						
R1810-5119	Change platforms	1	16DEC08	16DEC08	1	311	1,649.20						
R1810-5121	Assemble right TF Coil Assembly chk position	8	17DEC08	06JAN09	1	311	21,109.76						
R1810-5123	Attach TF coils to MC's	4	07JAN09	12JAN09	1	311	6,596.80						
R1810-5125	Align TF Coils	8	13JAN09	22JAN09	1	311	13,193.60						
R1810-5127	Change platforms	1	23JAN09	23JAN09	1	311	1,649.20						
R1810-5129	Position, tack-weld two large horiz diag port 4	8	26JAN09	04FEB09	1	311	13,193.60						
R1810-5135	Adjust final support base interfaces	8	05FEB09	16FEB09	1	311	13,193.60						
R1810-5137	Final metrology outside & inside	10	17FEB09	02MAR09	1	311	16,492.00						
R1810-5138	Lift onto Station 6 assembly structure	1	03MAR09	03MAR09	1	311	1,649.20						
Station 5- Final FP Assy -FP#2 (in NCSX TC)													
R1810-5203	Install on support platform	15	10FEB09	02MAR09	1	277	49,476.00						
R1810-5205	Mount MC/VV assembly to support frame a	2	03MAR09	04MAR09	1	277	3,298.40						
R1810-5207	Position and weld all ports to VV	30	05MAR09	15APR09	1	277	49,476.00						
R1810-5209	Inspect Welds	4	16APR09	21APR09	1	277	6,596.80						
R1810-5211	Assemble left TF Coil Assembly check position	8	22APR09	01MAY09	1	277	21,109.76						
R1810-5213	Change platforms	1	04MAY09	04MAY09	1	277	1,649.20						
R1810-5215	Assemble right TF Coil Assembly chk position	8	05MAY09	14MAY09	1	277	21,109.76						
R1810-5217	Attach TF coils to MC's	4	15MAY09	20MAY09	1	277	6,596.80						

EM//TB =60hr ; 41=15\$K ;
EM//TB =20hr ;
EM//TB =100hr ;
EM//TB =100hr ;
EM//TB =200hr ;

41=42\$K ;
41=15\$K ;
41=46\$K ;
EM//TB =160hr ; 41=07\$K ;
EM//TB =160hr ;
EM//TB =384hr ;
EM//TB =192hr ;

EM//TB =600hr ; 41=12\$K ;
EM//TB =40hr ;
EM//TB =600hr ;
EM//TB =16hr ;
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EM//TB =600hr ;
EM//TB =40hr ;
EM//TB =600hr ;
EM//TB =80hr ;
EM//TB =256hr ;
EM//TB =20hr ;
EM//TB =256hr ;
EM//TB =80hr ;

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
R1810-5219	Align TF Coils	6	21MAY09	29MAY09	1	277	9,895.20						
R1810-5221	Change platforms	1	01JUN09	01JUN09	1	277	1,649.20						
R1810-5223	Position, tack-weld two large horiz diag port 4	8	02JUN09	11JUN09	1	277	13,193.60						
R1810-5229	Adjust final support base interfaces	8	12JUN09	23JUN09	1	277	13,193.60						
R1810-5231	Final metrology outside & inside	10	24JUN09	08JUL09	1	277	16,492.00						
R1810-5238	Lift onto Station 6 assembly structure	1	09JUL09	09JUL09	1	277	1,649.20						
Station 5- Final FP Assy -FP#3 (in NCSX TC)													
R1810-5303	Install on support platform	8	10JUL09	21JUL09	2	221	49,476.00						
R1810-5305	Mount MC/VV assembly to support frame a	2	22JUL09	23JUL09	2	221	3,298.40						
R1810-5307	Position and weld all ports to VV*2 shift*	15	24JUL09	13AUG09	2	221	49,476.00						
R1810-5309	Inspect Welds	2	14AUG09	17AUG09	2	221	6,596.80						
R1810-5311	Assemble left TF Coil Assembly check position	4	18AUG09	21AUG09	2	221	21,109.76						
R1810-5313	Change platforms	1	24AUG09	24AUG09	1	221	1,649.20						
R1810-5315	Assemble right TF Coil Assembly chk position	4	25AUG09	28AUG09	2	221	21,109.76						
R1810-5317	Attach TF coils to MC's	2	31AUG09	01SEP09	2	221	6,596.80						
R1810-5319	Align TF Coils	3	02SEP09	04SEP09	2	221	9,895.20						
R1810-5321	Change platforms	1	08SEP09	08SEP09	2	221	1,649.20						
R1810-5323	Position, tack-weld two large horiz diag port 4	4	09SEP09	14SEP09	2	221	13,193.60						
R1810-5329	Adjust final support base interfaces	4	15SEP09	18SEP09	2	221	13,193.60						
R1810-5331	Final metrology outside & inside	5	21SEP09	25SEP09	2	221	16,492.00						
R1810-5333	Last field period assembled	0		25SEP09	2	221	0.00						
R1810-5338	Lift onto Station 6 assembly structure	1	28SEP09	28SEP09	2	221	1,649.20						
19 - Stellarator Core Management and Integration													
Job: 1901 - Stellarator Core Mngtt&Integr-COLE													
1901-07	WBS 19 FY07 LOE	106*	01MAY07*	28SEP07	1	1,249	158,384.56						
1901-08	WBS 19 FY08 LOE	249*	01OCT07*	29SEP08	1	1,000	420,358.75						
1901-09	WBS 19 FY09 LOE	247*	01OCT08*	28SEP09	1	752	444,968.53						
1901-10	WBS 19 FY10 LOE	249	01OCT09*	01OCT10	1	501	464,204.55						
2 - Plasma Heating, Fueling & Vac Systems													
21 - Fueling Systems													
Job: 2101 - Fueling Systems-BLAMCHARD													
211-101	Preliminary Design	20	01OCT09*	28OCT09		220	17,017.17						
211-105	PDR	1	29OCT09	29OCT09		220	0.00						
211-109	Final Design	20	30OCT09	30NOV09		220	17,017.17						
211-113	FDR	1	01DEC09	01DEC09		220	0.00						

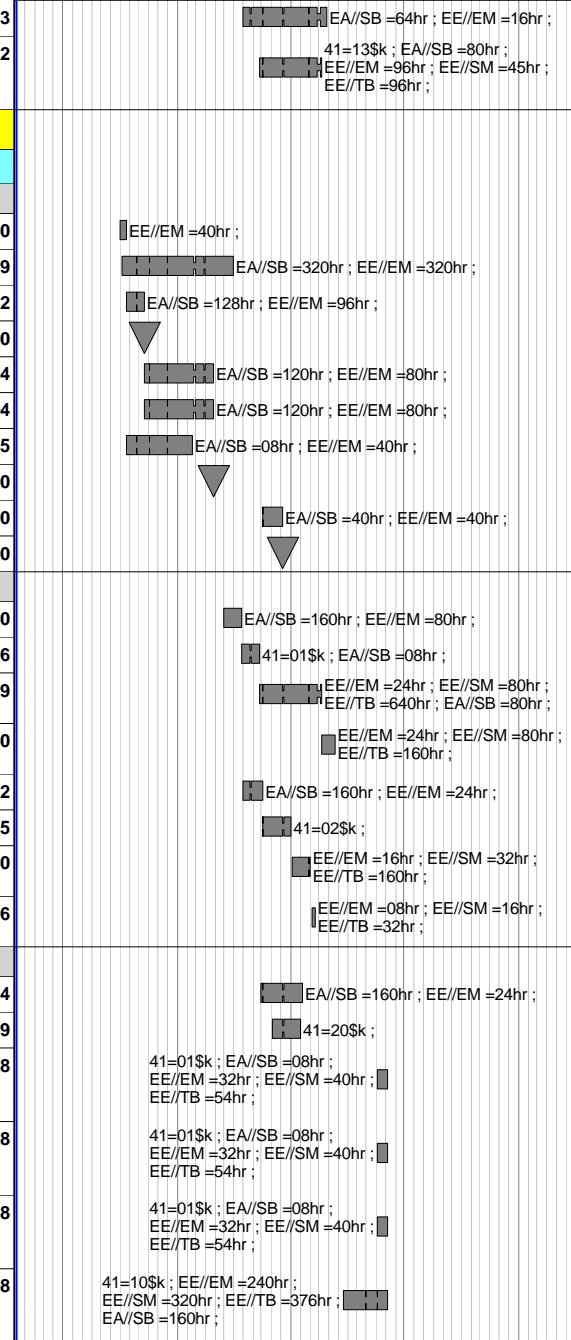
Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
211-117	Title III	85	02DEC09	09APR10		623	5,133.90						
211-121	Procure Material and Supplies	65	02DEC09	12MAR10		220	7,160.00						
211-125	Fabricate and Install	20	15MAR10	09APR10		220	16,839.36						
22 - Torus Vacuum Pumping Systems													
Job: 2201 - Vacuum Pumping Systems-BLANCHARD													
220-101	Preliminary Design	30	02MAR09*	10APR09		230	40,404.42						
220-105	PDR	1	13APR09	13APR09		230	0.00						
220-109	Final Design	35	14APR09	02JUN09		230	40,404.42						
220-113	FDR	1	03JUN09	03JUN09		230	0.00						
220-114	Title III	200	04JUN09	26MAR10		633	8,439.68						
220-117	Procure AC pwr for backup sys	65	04JUN09	03SEP09		230	4,191.00						
220-121	Procure TVPS/GIS Rack	65	04JUN09	03SEP09		230	4,191.00						
220-125	Procure Cabling	65	04JUN09	03SEP09		230	2,095.50						
220-129	Procure TVPS materials	65	04JUN09	03SEP09		230	13,970.00						
220-133	Assemble Fabricate (mechanical)	115	04SEP09	26FEB10		230	55,257.14						
220-137	Installation	20	01MAR10	26MAR10		230	5,456.64						
3 - Diagnostics													
31 - Magnetic Diagnostics													
Job: 3101 - Magnetic Diagnostics-STRATTON													
Modular Coil C-wound Loops													
3101-229	Fabricate remaining (12) MC Protective boxes	20	01MAY07	29MAY07		371	18,625.51						
Rogowski Coils													
3101-317	PRELIM DESIGN ROWGOWSKI COIL	30	01MAY07	12JUN07		410	13,237.12						
3101-318	PDR - ROWGOWSKI COIL	1	13JUN07	13JUN07*		410	1,231.36						
3101-325	FINAL DESIGN ROWGOSKI COIL	30	14JUN07*	26JUL07		410	13,237.12						
3101-326	FDR - ROWGOSKI COIL	1	27JUL07	27JUL07		410	613.52						
3101-329	FAB ROWGOWSKI COILS (2)	45	30JUL07	01OCT07		410	68,225.15						
3101-330	Rowgowski instrumentation-procure rack & matls	45	01OCT09*	04DEC09		343	47,098.60						
3101-331	Rowgowski instrumentation-fab & assemble	15	07DEC09	06JAN10		343	14,670.60						
TF and PF Co-wound Loops													
3101-425	Design PF & PF1a boxes	20	01MAY07	29MAY07		743	11,382.16						
3101-426	Purchase material and fabricate	40	30MAY07*	25JUL07		743	12,612.21						
T/C and Heater Tape Leads													
1204-140	Design T/C and Heater Tape Leads	20	01MAY07	29MAY07		408	23,453.00						
1204-141	Drawings Signed T/C and Heater Tape Leads	0		29MAY07		408	0.00						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
Flux loop junction boxes and spacer templates													
1204-160	Design Flux Loop Junc Boxes & spacer templates	40	01MAY07	26JUN07		334	42,596.24						
1204-165	Issue req,Bid & Award- Flux Loop Junction Boxes	25	27JUN07	01AUG07		334	0.00						
1204-169	Award Flux Loop Junction & template material	0		01AUG07		334	0.00						
1204-173	Receive Material & PPPL Fabricate	35	21SEP07	08NOV07		334	15,671.35						
36 - Edge and Divertor Diagnostics													
Job: 3601 - Edge Divertor Diagnostics-STRATTON													
361-001	Design Visible Camera sys	40	01APR09*	27MAY09		348	9,873.60						
361-015	Procure flange>window and material	65	28MAY09	27AUG09		348	4,889.50						
361-016	fabricate and assemble Visible tv camera sys	20	28AUG09	25SEP09		348	10,554.88						
38 - Electron Beam (EB) Mapping													
Job: 3801 - Electron Beam Mapping-STRATTON													
380-010	E-beam mapping- Prelim Design	40	01OCT08*	25NOV08		382	44,761.80						
380-015	E-beam mapping-PDR	1	26NOV08	26NOV08		382	0.00						
380-100	E-beam mapping-Final Design	40	01DEC08*	03FEB09		382	56,544.80						
380-110	E-beam mapping-FDR	1	04FEB09	04FEB09		382	0.00						
380-115	E-beam mapping-Procure Rack	65	05FEB09*	06MAY09		382	39,954.20						
380-120	E-beam mapping-Procure Ports	65	05FEB09	06MAY09		382	5,588.00						
380-130	E-beam mapping-Procure Data Acquisition	65	05FEB09*	06MAY09		382	13,970.00						
380-135	E-beam mapping- Assemble	65	07MAY09	07AUG09		382	89,858.56						
39 - Diagnostics Integration													
Job: 3901 - Diagnostics sys Integration-STRATTON													
390-03	LOE Support FY07	106*	01MAY07	28SEP07		1,249	11,592.72						
390-04	LOE Support FY08	249*	01OCT07*	29SEP08		1,000	29,228.35						
390-05	LOE Support FY09	247*	01OCT08*	28SEP09		752	30,084.70						
390-06	LOE Support FY10	246*	01OCT09*	28SEP10		504	62,037.90						
4 - Electrical Power Systems													
41 - AC Power													
Job: 4101 - AC Power-RAMAKRISHNAN													
411 - Auxiliary AC Power Systems													
4101-100.1	Prepare Preliminary One line diagram	173	03MAR08*	03NOV08		388	1,356.71						
411-1-100	Ex-Test cell AC pwr-Reactiv.&new instl	210	02JAN09*	27OCT09		283	12,652.35						
411-2-2	Grounding-Dsn	65	02JAN09*	02APR09		289	32,604.96						
411-2-4	Grounding-Procure	107	04SEP09*	16FEB10		226	14,261.12						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year								
								FY07	FY08	FY09	FY10	FY11	FY12			
411-2-6	Grounding-Install	43	17FEB10*	16APR10		226	46,659.48									
411-2-8	Grounding-Commission	29	19APR10*	27MAY10		226	16,166.80									
411-3-2	Test Cell AC Power Distr-Dsn**GPP**	90	02JAN09*	07MAY09		273	0.00									
411-3-4	TC AC Pwr Distr-Procure(pnls&xfrmrs)**GPP**	65	08MAY09	10AUG09		273	0.00									
411-3-6	Test Cell AC Power Distr-Install**GPP**	65	11AUG09	10NOV09		273	0.00									
411-3-8	Test Cell AC Power Distr-Commission**GPP**	45	11NOV09*	26JAN10		273	0.00									
412 - Experimental AC Power Systems																
412-1-2	C-site Pulsed AC Power Distr-Dsn	65	01APR09*	01JUL09		226	4,832.00									
412-1-4	C-site Pulsed AC Power Distr-Procure	65	04SEP09	08DEC09		260	7,111.54									
412-1-6	C-site Pulsed AC Power Distr-Install	40	09DEC09	12FEB10		260	11,553.36									
412-1-8	C-site Pulsed AC Power Distr-Commission	40	15FEB10	09APR10		260	11,384.00									
43 - DC Systems																
Job: 4301 - DC Systems-RAMAKRISHNAN																
431 - C-Site DC Systems																
431-200	Condition/spare parts inventory	20	01AUG08*	28AUG08		558	2,242.26									
431-210	Organize & verify documentation	20	29AUG08*	26SEP08		558	4,402.11									
431-215	Document status	20	29SEP08*	24OCT08		558	2,849.14									
431-225	Reactivate DF & PEI units	40	27OCT08*	23DEC08		558	22,697.68									
431-230	Duummy Load test of DF & PEI units	20	02JAN09*	29JAN09		558	11,490.04									
431-240	Simulate each of 6 pwr loops in PSCAD	90	01AUG08*	09DEC08		456	18,325.29									
431-250	c-site dc sys DGS dsn documentation	90	01AUG08*	09DEC08		456	60,944.52									
431-261	Redo power loop design	90	01AUG08*	09DEC08		456	51,781.88									
431-265	Fabricate bus components	40	28JAN09*	24MAR09		428	86,139.48									
431-275	Power cabling & Installation	92	25MAR09*	03AUG09		428	309,196.40									
431-276	Maint of C-site rectifiers	501	01OCT07*	02OCT09		385	22,026.38									
44 - Control and protection Systems																
Job: 4401 - Control & Protection-RAMAKRISHNAN																
441 - Electrical Interlocks																
441-095	Design Interlock sys	40	02JAN09*	26FEB09		540	30,948.00									
441-097	Install Interlock sys	40	27FEB09	23APR09		540	26,011.20									
441-100	PLC Specification	20	01OCT08*	28OCT08		343	12,493.28									
441-105	Prep Block diagrams	20	29OCT08	25NOV08		343	16,010.72									
441-110	PLC CWD's & Cabling	40	26NOV08*	02FEB09		343	63,679.68									

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
441-115	deliver PLC	130	03FEB09	05AUG09		343	97,790.00						
441-120	Program PLC Logic	45	06AUG09	08OCT09		343	29,147.96						
441-125	Program Control pages	40	09OCT09	07DEC09		343	30,509.20						
441-130	Pre-commissioning tests	20	08DEC09	14JAN10		343	27,004.00						
441-135	Install I/O Cabling control & protection	90	25SEP09	11FEB10		343	127,331.16						
442 - Kirk Key Interlocks													
442-1-2	Kirk Keys-Dsn	40	01APR09*	27MAY09		392	22,879.20						
442-1-4	Kirk Keys-Procure	65	28MAY09	27AUG09		392	18,916.08						
442-1-6	Kirk Keys-Install	40	28AUG09	23OCT09		392	34,149.85						
442-1-8	Kirk Keys-Commission	20	26OCT09	20NOV09		392	7,643.00						
443 - Real Time Control Systems													
443-1-2	Develop Control Algorithms-Dsn	65	01OCT09*	13JAN10		364	14,772.00						
444 - Instrument Systems													
444-2-2	DC Potential Transducers (DCPTs)-Dsn	40	03AUG09*	28SEP09		311	9,222.72						
444-2-4	DC Potential Transducers (DCPTs)-Procure	65	29SEP09	11JAN10		311	10,625.39						
444-2-6	DC Potential Transducers (DCPTs)-Install	40	12JAN10	08MAR10		311	21,894.32						
444-2-8	DC Potential Transducers (DCPTs)-Commission	15	09MAR10	29MAR10		311	13,041.60						
444-3-2	DC Shunts-Dsn	20	01OCT08*	28OCT08		658	8,235.36						
444-4-2	Signal Conditioning & Cabling-Dsn	130	01OCT08*	13APR09		408	88,680.48						
444-4-4	Signal Conditioning & Cabling-Procure	65	14APR09	15JUL09		408	19,621.28						
444-4-6	Signal Conditioning & Cabling-Install	65	16JUL09	15OCT09		408	26,881.93						
444-4-8	Signal Conditioning & Cabling-Commission	10	16OCT09	29OCT09		408	18,240.40						
445 - Coil Protection Systems													
445-1-2	Ground Fault Protection-Dsn	65	02JAN09*	02APR09		289	35,854.56						
445-1-4	Ground Fault Protection-Procure	65	04SEP09*	08DEC09		342	28,529.05						
445-1-6	Ground Fault Protection-Install	30	09DEC09*	29JAN10		342	25,626.96						
445-1-8	Ground Fault Protection-Commission	10	01FEB10	12FEB10		342	10,720.96						
445-2-105	Overload Protect-Write spec and approve	20	01APR09*	28APR09		357	14,286.40						
445-2-110	Overload Protect-Design	40	29APR09*	24JUN09		367	25,783.04						
445-2-115	Overload Protect-Fabr 4 chassis	65	25JUN09*	25SEP09		387	26,159.04						
445-2-120	Overload Protect-Test 4 units	10	28SEP09	09OCT09		387	10,652.23						
445-2-125	Overload Protect-Install & Rack wiring	20	12OCT09	06NOV09		387	20,532.55						
445-2-130	Overload Protect-Write & perform ISTEP	15	09NOV09	01DEC09		387	10,758.40						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
445-2-135	Overload Protect-Documentation	180	29APR09*	22JAN10		357	10,902.53						
445-2-140	Overload Protection&cabling design,procure instl	130	25JUN09*	08JAN10		367	60,355.12						
45 - Power System Design and Integration													
Job: 4501 - Power Sys Dsn & Integr-RAMAKRISHNAN													
451 - System Design & Interfaces													
451-0-2	Develop SRD	15	01APR08*	21APR08		428	6,939.60						
451-3-2	Dwgs,asbuilts -Elect Dsn	245	08APR08*	01APR09		556	95,258.39						
451-2-2	PDR Prep Power system -Dsn	40	22APR08	17JUN08		428	32,003.52						
451-2-3	PDR Power system -Dsn	0		17JUN08		428	0.00						
451-6-2	Final design C-Site -Cabling	149	18JUN08	27JAN09		428	28,690.94						
451-2-2.1	Final Design C-Site	149	18JUN08	27JAN09		428	28,690.94						
451-1-2	Calculations-Dsn	149	22APR08*	19NOV08		468	7,954.85						
451-202.2	FDR C-Site	0		27JAN09		428	0.00						
451-4-2	Final Dsn AC auxiliaries & grounding-Dsn	45	02JUL09	03SEP09		226	12,080.00						
451-402.1	FDR AC auxiliaries & grounding-Dsn	0		03SEP09		226	0.00						
452 - Electrical Systems Support													
452-1-2	Diagnostics AC Power Distr-Dsn	40	02MAR09*	24APR09		339	34,033.60						
452-1-4	Diagnostics AC Power Distr-Procure	40	27APR09	22JUN09		339	2,384.36						
452-1-6	Diagnostics AC Power Distr-Install	130	23JUN09	06JAN10		339	78,393.29						
452-1-8	Diagnostics AC Power Distr-Commission	30	07JAN10	17FEB10		339	29,816.40						
452-2-2	Diagnostics sensor cabling-Dsn	43	01MAY09*	01JUL09		374	24,033.12						
452-2-4	Diagnostics sensor cabling-Procure	65	02JUL09	02OCT09		374	2,796.15						
452-2-6	Diagnostics sensor cabling-Install	43	05OCT09	04DEC09		374	21,064.80						
452-2-8	Diagnostics sensor cabling-Commission	10	07DEC09	18DEC09		374	6,554.16						
453 - System Testing (PTP's)													
453-1-2	New Procedures	90	01JUL09*	05NOV09		303	24,269.34						
453-1-3	Preop Testing-Procure test equipt	65	03AUG09*	02NOV09		386	28,187.69						
453-1-4	TF Coil Test	20	09JUL10*	05AUG10		220	18,899.28						
453-1-5	PF Coil Test	20	09JUL10*	05AUG10		220	18,899.28						
453-1-6	Trim Coil Coil Test	20	09JUL10*	05AUG10		220	18,183.28						
453-1-8	Testing PTPs, ISTPs	100	17MAR10*	05AUG10		220	158,714.08						



Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
54 - Facility Timing & Synchronization													
Job: 5401 - Facility Timing & Synchron.-SICHTA													
R54-10	Preliminary System Design	30	01APR09*	12MAY09		276	6,203.60						
R54-20	Final SystemDesign	40	13MAY09	09JUL09		276	6,203.60						
R54-30	Preliminary Design - Clock Dist.	20	13MAY09	10JUN09		416	10,245.00						
R54-40	Final Design - Clock Dist.	30	11JUN09	23JUL09		416	24,531.40						
R54-50	Test - Clock Dist.	40	16NOV09	22JAN10		336	31,617.80						
R54-60	Procurement	90	10JUL09	13NOV09		286	36,365.66						
R54-70	UNT - Timing & Seq Emulation (FPGA Pgm)	90	01MAY09*	08SEP09		424	12,064.00						
R54-80	UNT - Device Driver Prog (EPICS/MDSplus)	120	04SEP09	05MAR10		276	25,531.12						
R54-90	Central Clock (EPICS) Programming	30	08MAR10	16APR10		276	12,828.80						
R54-100	Installation	90	16NOV09	02APR10		286	27,987.20						
R54-110	Test	14	19APR10	06MAY10		276	9,532.80						
55 - Real Time Plasma & Power Supply Control Sys													
Job: 5501 - Real Time Control System-SICHTA													
R55-10	FCPC - Preliminary Design	30	03AUG09*	14SEP09		240	6,203.60						
R55-20	FCPC -Final Design	60	15SEP09	09DEC09		240	12,744.48						
R55-30	FCPC - Procurement	60	10DEC09	15MAR10		240	13,683.20						
R55-40	FCPC LabVIEW Programming	30	26MAR10	06MAY10		262	19,243.20						
R55-45	FCPC PLC Integration-EPICS Prog.	30	26MAR10	06MAY10		262	6,414.40						
R55-50	FCPC - Installation	60	16MAR10	08JUN10		240	9,532.80						
R55-60	FCPC -Test	14	09JUN10	28JUN10		240	7,973.60						
R55-70	GISRTC - Preliminary Design	30	01JUL09*	12AUG09		232	6,203.60						
R55-80	GISRTC -Final Design	60	13AUG09	05NOV09		232	3,147.47						
R55-90	GISRTC - Procurement	60	06NOV09	11FEB10		232	13,683.20						
R55-100	GISRTC LabVIEW Programming	30	12FEB10	25MAR10		232	19,243.20						
R55-110	GISRTC - Installation	60	26MAR10	18JUN10		232	7,829.28						
R55-120	GISRTC -Test	14	21JUN10	09JUL10		232	3,207.20						
56 - Central Safety and Interlock Systems													
Job: 5601 - Central Safety &Interlock Sys-SICHTA													
R56-10	Requirements, Codes&Standards	60	02MAR09*	22MAY09		272	6,203.60						
R56-20	Preliminary Design	30	26MAY09	07JUL09		272	6,203.60						
R56-30	PLC Training	60	08JUL09	30SEP09		392	14,891.20						

EC//EM =40hr ;
 EC//EM =40hr ;
 EC//EM =20hr ; EE//EM =40hr ;
 EC//EM =20hr ; EE//EM =120hr ;
 EC//EM =20hr ; EE//EM =100hr ;
 EE//TB =120hr ;
 EC//EM =40hr ; 37=04 ;
 43=14 ; 41=16\$k ;
 EC//EM =00hr ; EC//TB =160 ;
 EC//EM =160hr ;
 EC//EM =80hr ;
 EC//EM =40hr ; EA//SB =40hr ;
 EC//TB =80 ; EM//TB =120hr ;
 EC//EM =40hr ; EC//TB =40 ;

EC//EM =40hr ;
 EC//EM =80hr ;
 EC//EM =20hr ; 37=01 ;
 41=06\$k ; 43=07 ;
 EC//EM =120hr ;
 EC//EM =40hr ;
 EC//EM =40hr ; EC//TB =40 ;
 EC//EM =40hr ; EC//TB =20 ;
 EC//EM =40hr ;
 EC//EM =20hr ;
 EC//EM =20hr ; 37=01 ;
 43=05 ; 41=06\$k ;
 EC//EM =120hr ;
 EC//EM =20hr ; EC//TB =20 ;
 EA//SB =24hr ;
 EC//EM =20hr ;

EC//EM =40hr ;
 EC//EM =40hr ;
 EC//EM =80hr ; 43=02 ;
 35=02\$k ;

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
R56-35	Final Design	30	08JUL09	18AUG09		272	21,712.60						
R56-40	Procurement	60	19AUG09	11NOV09		272	49,671.00						
R56-50	PLC Programming	90	12NOV09	31MAR10		272	19,243.20						
R56-60	Installation	70	12NOV09	03MAR10		292	87,412.00						
R56-70	Test	30	01APR10	12MAY10		272	15,947.20						
58 - Central I&C management and Integration													
Job: 5801 - Central I&C Integr& Oversight-SICHTA													
R58-10	WBS58 -FY07 Management & Integration LOE	107	01MAY07*	01OCT07		1,248	7,182.81						
R58-20	WBS58 -FY08 Management & Integration LOE	250	01OCT07*	30SEP08		999	18,080.40						
R58-30	WBS58 -FY09 Management & Integration LOE	249	01OCT08*	30SEP09		750	18,610.80						
R58-40	WBS58 -FY10 Management & Integration LOE	248	01OCT09*	30SEP10		502	19,243.20						
6 - Facility Systems													
61 - Water Systems													
Job: 6101 - Water Systems-DUDEK													
613 - Vacuum Pumping System													
6101-100	Design Vac Pmp water sys	20	01OCT08*	28OCT08		427	13,183.60						
6101-105	Procure Hardware and materials Vac Pmp water sys	90	29OCT08	16MAR09		427	7,459.09						
6101-110	Fabricate and Install Vac Pmp water sys	40	17MAR09	11MAY09		427	24,362.82						
6101-115	Test Vac Pmp water sys	22	12MAY09	11JUN09		427	4,622.40						
62 - Cryogenic Systems													
Job: 6201 - Cryogenic Systems-DUDEK													
621 - LN2-LHe Supply System													
621-101	LN2 - LHe Supply-Preliminary Design	20	01OCT08*	28OCT08		352	9,256.72						
621-121	LN2 - LHe Supply-Final Design	20	29OCT08	25NOV08		353	10,244.08						
621-131	LN2 - LHe Supply-Procure Hardware & Materials	65	01OCT09*	13JAN10		293	62,764.56						
621-141	LN2 - LHe Supply-Fabricate & Assembly	35	14JAN10	03MAR10		293	17,052.00						
621-151	LN2 - LHe Supply-Title III	100	01OCT09	03MAR10		293	7,529.72						
622 - LN2 Coil Cooling Supply													
622-101	LN2 Coil Cooling Supply-Prelim Design	20	01OCT08*	28OCT08		352	9,750.40						
622-121	LN2 Coil Cooling Supply-Final Design	20	29OCT08	25NOV08		353	9,750.40						
622-131	LN2 Coil Cooling Supply-Procure Hardware	65	16JUL09*	15OCT09		332	20,482.68						
622-141	LN2 Coil Cooling Supply-Assemble Skid	25	16OCT09	19NOV09		332	11,083.80						
622-151	LN2 Coil Cooling Supply-Relocate skid to NCSX TC	25	20NOV09	07JAN10		332	27,283.20						
622-161	LN2 Coil Cooling Supply-Title III	115	16JUL09	07JAN10		332	7,413.40						
623 - GN2 Cryostat Cooling System													
623-101	GN2 Cryostat Cooling Sys-Preliminary Design	30	01DEC08*	20JAN09		301	18,176.80						
623-121	GN2 Cryostat Cooling Sys-Analysis	30	01OCT08*	11NOV08		342	30,593.60						
623-141	GN2 Cryostat Cooling Sys-WBS 62/171 PDR	1	21JAN09	21JAN09		301	1,324.00						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
623-161	GN2 Cryostat Cooling Sys-Final Design	20	22JAN09	18FEB09		301	18,176.80						
623-181	GN2 Cryostat Cooling Sys-WBS 62/171 FDR	1	19FEB09	19FEB09		301	1,324.00						
623-201	GN2 Cryostat Cooling Sys-Procure Hardware	88	20FEB09	24JUN09		301	149,031.96						
623-221	GN2 Cryostat Cooling Sys-Assemble & Install	160	25JUN09	19FEB10		301	161,414.40						
623-241	GN2 Cryostat Cooling Sys-Title III	248	20FEB09	19FEB10		301	14,747.79						
623-261	WBS 62/171 Cryo systems PTP	10	04MAR10	17MAR10		293	27,332.00						
63 - Utility Systems													
Job: 6301 - Utility Systems-DUDEK													
6301-001	Vac Vent and Air sys- Prelim Dsn	20	06OCT08*	31OCT08		454	24,740.40						
6301-005	Vac Vent and Air sys- PDR	1	03NOV08*	03NOV08		454	1,324.00						
6301-009	Vac Vent and Air sys- Final dsn	10	04NOV08*	17NOV08		454	13,183.60						
6301-010	Vac Vent and Air sys- FDR	1	18NOV08*	18NOV08		454	1,324.00						
6301-013	Vac Vent and Air sys- Procure hardware and compo	60	02MAR09*	22MAY09		390	34,309.43						
6301-017	Vac Vent and Air sys- Fabricate and Install	40	26MAY09*	21JUL09		390	37,130.20						
6301-020	Vac Vent and Air sys-Test	10	22JUL09*	04AUG09		390	4,622.40						
64 - PFC/VV Heating & Cooling (Bakeout)													
Job: 6401 - PFC/VV Htng/Cooling(bakeout)- DUDEK													
6401-000	Bakeout Sys- Requirements Definition	15	05MAR09*	25MAR09		319	13,240.00						
6401-001	Bakeout Sys-Preliminary Design	30	26MAR09*	06MAY09		319	39,966.40						
6401-002	Bakeout Sys-PDR	1	07MAY09*	07MAY09		319	1,324.00						
6401-004	Bakeout Sys- EA Analysis	30	08MAY09	19JUN09		319	30,593.60						
6401-005	Bakeout Sys-Final Design	40	22JUN09*	17AUG09		319	39,966.40						
6401-009	Bakeout Sys-FDR	1	18AUG09*	18AUG09		319	1,324.00						
6401-010	Bakeout Sys-Procure Piping & Equipt	65	19AUG09*	18NOV09		319	223,523.30						
6401-013	Assemble & Install	65	19NOV09*	03MAR10		319	171,372.60						
6401-017	Bakeout Sys- ACC Review	10	04MAR10*	17MAR10		319	10,255.60						
6401-020	Bakeout Sys-PTP Testing	10	18MAR10*	31MAR10		319	17,076.40						
7 - Test Cell Preparation and Machine Assy													
73 - Platform Design & Fabrication													
Job: 7301 - Platform Design & Fab-PERRY													
711A.040	Platform nut plates	65	15AUG08	14NOV08		350	2,979.20						
712.020	Platform Parts	65	15AUG08	14NOV08		350	33,672.27						
712.030	Miscs Hardware/Material	65	15AUG08	14NOV08		350	21,650.95						
7301-100	Survey and layout locations for platform posts	10	03NOV08	14NOV08		350	25,252.80						
7301-102	Machine platform trial assembly & fitup	20	17NOV08*	16DEC08		350	119,740.80						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost						
								FY07	FY08	FY09	FY10	FY11	FY12
74 - Machine Assembly Planning and Oversight													
Job: 7401 - TC Prep & Mach Assy Planning-PERRY													
714.020	LOE Prior to assy starting	356	01OCT07*	10MAR09		926	32,389.94	EM/EM =120hr ; EE/SM =90hr ;					
714.025	Update Final Assembly Plan	45	27MAR09	29MAY09		240	26,480.00	EM/EM =160hr ;					
7502-001	Test Cell 110/208voutlets GPP SCOPE TO COMPLETE	65	27FEB09	29MAY09		240	0.00	Perry 1.0 fte Langella 1.0 fte					
714.030	LOE Start of assy through thru completion	342*	01JUN09	12OCT10		220	762,146.17	2nd shift supervision 1.0 fte					
714.031	Additional supervision for 2nd shift	268	02OCT09	12OCT10	2	513	295,670.24						
75 - Test Cell and Basement Assembly Operations													
Job: 7501 - Construction Support Crew-PERRY													
7501-10	Fabricate/Assemble assembly structure	20	15MAY09	12JUN09	1	240	239,444.80	EM/EM =96hr ; EM/TB =960hr ; EM/SM =240hr ; 41=80Sk ;					
7501-11	Exercise assy struct w/FPA-1 before start	40	07JUL09	31AUG09	1	240	135,915.20	EM/EM =80hr ; EM/TB =640hr ; EM/SM =320hr ; EM/TB =320hr ;					
7501-06	Construction Support Crew for 2nd shift	265	29SEP09	04OCT10	2	519	463,647.82	Tool Crib Control em/tb Crane Operator & supp Forklift Operator & supp					
7501-05	Construction Support Crew during machine assy	356*	01JUN09	12OCT10		230	748,698.17	Tool Crib Control em/tb Crane Operator & supp Forklift Operator & supp					
Job: 7503 - Machine Assembly (station 6)-PERRY													
7503-010	Begin Assembly Activities	0	01JUN09*		X	240	0.00	EA/EM =60hr ; EM/TB =480hr ; EM/SM =120hr ;					
7503-020	Install Permanent support base and columns	10	01JUN09	12JUN09	1	240	67,371.00	EM/EM =72hr ; EM/SM =180hr ; EM/TB =720hr ;					
7503-015	Install Temp Assembly Structure	15	15JUN09	06JUL09	1	240	95,763.60	EM/SM =16hr ; EM/TB =32hr ;					
7503-060	Install Lower PF 4,5&6 into prelim position	1	07JUL09	07JUL09	1	269	4,814.40	EA/EM =40hr ; EM/TB =320hr ; EM/SM =80hr ; EM/TB =80hr ;					
7503-070	Install 3 Spool Pieces on fixt & test movement	10	08JUL09	21JUL09	1	269	51,510.80	EA/EM =20hr ; EM/TB =160hr ; EM/SM =40hr ; EM/TB =40hr ;					
7503-080	FPA-1 Installed on sleds (installed by job 1815)	0		21JUL09	1	269	0.00	41=36Sk ; EA/EM =20hr ; EM/EM =29hr ; EM/SM =72hr ; EM/TB =288hr ;					
7503-110	FPA-2 Installed on sleds (installed by job 1815)	0		31AUG09	1	240	0.00	EA/EM =20hr ; EM/EM =29hr ; EM/SM =72hr ; EM/TB =288hr ;					
7503-150	FPA-3 Installed on sleds (installed by job 1815)	0		28SEP09	1	221	0.00	EA/EM =20hr ; EM/EM =29hr ; EM/SM =72hr ; EM/TB =288hr ;					
7503-120	Test movement of FPA's incl position checks.	3	29SEP09	01OCT09	2	228	26,046.99	EM/TB =48hr ; EM/SM =48hr ; EM/TB =192hr ;					
7503-400	Install inboard and outboard shims	3	02OCT09	06OCT09	2	228	95,147.05	EM/SM =16hr ; EM/TB =64hr ;					
7503-402	Move all FPA's together, chk fitup,tack shims	3	07OCT09	09OCT09	2	228	43,595.05	EM/SM =48hr ; EM/TB =192hr ;					
7503-404	Weld inboard shims on mating flanges	3	12OCT09	14OCT09	2	228	43,595.05						
7503-406	Install TF coils at ends of each FPA	3	15OCT09	19OCT09	2	228	27,211.20						
7503-410	Install spacer supports and spacers	1	20OCT09	20OCT09	2	228	7,706.24						
7503-412	Move FPA's & spacers together/chk fitup	3	21OCT09	23OCT09	2	228	23,118.72						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost							
								FY07	FY08	FY09	FY10	FY11	FY12	
7503-414	Remove Spacers & Machine spacers to fit	2	26OCT09	27OCT09	2	228	5,456.64							EM/TB =64hr ;
7503-415	Re-install spacers	1	28OCT09	28OCT09	2	228	7,706.24							EM/SM =16hr ; EM/TB =64hr ;
7503-160	Position all FPA's / Spool Pieces @ MC Interface	3	29OCT09	02NOV09	2	228	31,956.24							EA/EM =24hr ; EM/TB =192hr ; EM/SM =48hr ; EM/TB =48hr ;
7503-090	Install local Platforms around FPA-1	2	03NOV09	04NOV09	2	250	15,412.48							EM/TB =128hr ; EM/SM =32hr ;
7503-130	Install local Platforms around FPA-2	2	05NOV09	06NOV09	2	250	15,412.48							EM/TB =128hr ; EM/SM =32hr ;
7503-190	Install local Platforms around FPA-3	2	09NOV09	10NOV09	2	250	15,412.48							EM/TB =128hr ; EM/SM =32hr ;
7503-415.5	MC Interface: meas holes/mark bushings f/drilling	2	03NOV09	04NOV09	2	228	11,559.36							EM/SM =24hr ; EM/TB =96hr ;
7503-415.6	drill eccentric custom holes in bushings	2	05NOV09	06NOV09	2	228	116,095.36							EM/SM =24hr ; EM/TB =96hr ; 41=73\$K ;
7503-415.7	Measure vsl gaps to determ spool piece dimension	9	09NOV09	19NOV09	2	228	81,495.36							EA/EM =288hr ; EM/TB =288hr ;
7503-415.8	Side 1 Machining spool pieces (complete 1side)	45	29SEP09	02DEC09	1	221	66,420.56							41=45\$K ; EM/EM =12hr ;
7503-415.9	Side 2 machining of spool pieces & position	45	03DEC09	15FEB10	1	221	66,493.56							41=45\$K ; EM/EM =12hr ;
7503-416	Bolt MC flanges	9	05JAN10	15JAN10	2	221	39,640.85							EM/EM =29hr ; EM/SM =72hr ; EM/TB =288hr ;
7503-418	Raise permanent supports to take machine loads	8	18JAN10	27JAN10	2	221	114,363.36							EM/TB =180hr ; EM/EM =72hr ; EM/SM =180hr ; EM/TB =720hr ;
7503-419	Remove temporary assy structure	1	28JAN10	28JAN10	2	221	11,559.36							EM/SM =24hr ; EM/TB =96hr ;
7503-419.1	Install/Level FPA's and spool piece supports	15	29JAN10	18FEB10	2	221	159,781.20							EA/EM =120hr ; EM/TB =240hr ; EM/SM =240hr ; EM/TB =960hr ;
7503-419.2	FPA Metrology checks to assure alignment	3	19FEB10	23FEB10	2	221	14,729.20							EA/EM =40hr ; EM/TB =40hr ; EM/TB =40hr ;
7503-420	Mate-up and Weld spacers onto vvsA	15	24FEB10	16MAR10	2	221	171,865.20							EM/TB =180hr ; EM/SM =240hr ; EM/TB =1,440hr ;
7503-422	Weld all six port 4's in place	15	17MAR10	06APR10	2	221	91,810.80							EM/TB =60hr ; EM/SM =180hr ; EM/TB =720hr ;
7503-422.1	Install E-Beam mapping & diag equipt	5	07APR10	13APR10	2	221	45,376.40							EM/EM =40hr ; EM/SM =80hr ; EM/TB =320hr ;
7503-240	Install Vacuum pumping system	3	12APR10	14APR10	2	220	19,265.60							EM/SM =40hr ; EM/TB =160hr ;
7503-250	Begin Vac Vsl Pumpdown	0	15APR10		2	220	0.00							***** PUMP DOWN OF VACUUM VESSEL DOE LEVEL 2 MILESTONE *****
7503-260	PTP Pumpdown & leak check VV	8	15APR10	26APR10	2	220	57,796.80							EM/SM =120hr ; EM/TB =480hr ;
7503-424	Install TF alingment & traction ring	4	27APR10	30APR10	2	220	40,467.27							EA/EM =13hr ; EM/TB =67hr ; EM/SM =67hr ; EM/TB =267hr ;
7503-426	Pull TF coil radially inward. Verify nose fit up	5	03MAY10	07MAY10	2	220	40,467.27							EA/EM =13hr ; EM/TB =67hr ; EM/SM =67hr ; EM/TB =267hr ;
7503-428	Lock TF coils at four support locations	4	10MAY10	13MAY10	2	220	40,467.27							EA/EM =13hr ; EM/TB =67hr ; EM/SM =67hr ; EM/TB =267hr ;
7503-430	Install MC structure insulation boots	5	14MAY10	20MAY10	2	220	38,531.20							EM/SM =80hr ; EM/TB =320hr ;
7503-431	Seal gaps MC shims,cooling tubes, for insul pour	10	21MAY10	04JUN10	2	220	77,062.40							EM/SM =160hr ; EM/TB =640hr ;
7503-432	Fill MC/VVSA annulus with pourable aerogel insul	1	07JUN10	07JUN10	2	220	7,706.24							EM/SM =16hr ; EM/TB =64hr ;
7503-433	Install 2 trim coils	2	08JUN10	09JUN10	2	226	18,575.84							EA/EM =16hr ; EM/SM =32hr ; EM/TB =128hr ;
7503-433.1	Install LN2 manifolds	5	08JUN10	14JUN10	2	236	38,531.20							EM/SM =80hr ; EM/TB =320hr ;
7503-434	Instl in-cryostat cabling for elect pwr to coils	8	08JUN10	17JUN10	2	220	52,172.80							EM/SM =80hr ; EM/TB =480hr ;
7503-436	Connect cabling, and I&C to MC & TF Coils	8	18JUN10	29JUN10	2	220	52,172.80							EM/SM =80hr ; EM/TB =480hr ;

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
7503-439	Complete mag diag & machine I&C	5	30JUN10	07JUL10	2	220	49,779.20						
7503-438	Align guide mechanism for solenoid installation	1	08JUL10	08JUL10	2	220	7,562.76						
7503-444	Install solenoid support structure	1	09JUL10	09JUL10	1	220	6,913.33						
7503-440	Install solenoid assembly	1	12JUL10	12JUL10	1	220	6,913.33						
7503-442	Connect cabling, LN2 and I&C to solenoid assy	1	13JUL10	13JUL10	1	220	3,853.12						
7503-446	Install PF4L	1	14JUL10	14JUL10	1	220	3,853.12						
7503-448	Connect cabling, LN2 and I&C to PF4L	1	15JUL10	15JUL10	1	220	3,853.12						
7503-450	Adjust spring compression in solenoid sprt struc	1	16JUL10	16JUL10	1	220	3,853.12						
7503-451	Raise lower PF 5&6 coils into final position	3	19JUL10	21JUL10	2	220	27,863.76						
7503-452	Instl Upper PF 4, 5 & 6	3	22JUL10	26JUL10	2	220	27,863.76						
7503-330	Begin Cryostat Installation	0	27JUL10		X	220	0.00						
7503-454	Install cryostat base, vapor barrier port boots	5	27JUL10	02AUG10	2	220	38,531.20						
7503-456	Install elec pwr, LN2, & instr feedthrus	3	03AUG10	05AUG10	2	220	19,265.60						
7503-458	Integrated Electrical testing	5	06AUG10	12AUG10	2	220	52,221.60						
7503-460	Instl transition box,cabling,&connect to pwr sup	5	13AUG10	19AUG10	2	254	38,531.20						
7503-462	LN2 connections from coils to manifolds	5	13AUG10	19AUG10	2	228	38,531.20						
7503-464	Connect coil & VV instrumentation	5	13AUG10	19AUG10	2	220	38,531.20						
7503-466	Connect 150C bakeout	3	20AUG10	24AUG10	2	220	19,265.60						
7503-470	Install cryostat cooling syst & instrumentation	10	01SEP10	15SEP10	2	220	154,124.80						
7503-471	Install cryostat upper section, VB & port boots	5	16SEP10	22SEP10	2	220	38,531.20						
7503-472	Install midplane cryostat sections & port boots	8	23SEP10	04OCT10	2	220	58,288.20						
7503-473	Install cryostat circulation duct	3	05OCT10	07OCT10	2	220	19,920.80						
730.8200	PTP and Cool down	3	08OCT10	12OCT10	2	220	68,103.20						

EM//SM =160hr ; EM//TB =320hr ;
EA//EM =06hr ; EM//TB =12hr ;
EM//SM =12hr ; EM//TB =43hr ;
EA//EM =05hr ; EM//TB =10hr ;
EM//SM =10hr ; EM//TB =43hr ;
EA//EM =05hr ; EM//TB =10hr ;
EM//SM =10hr ; EM//TB =43hr ;
EM//SM =08hr ; EM//TB =32hr ;
EM//SM =08hr ; EM//TB =32hr ;
EM//SM =08hr ; EM//TB =32hr ;
EM//SM =08hr ; EM//TB =32hr ;
EA//EM =24hr ; EM//SM =48hr ;
EM//TB =192hr ;
EA//EM =24hr ; EM//SM =48hr ;
EM//TB =192hr ;

BEGIN CRYOSTAT INSTALLATION
DOE LEVEL 2 MILESTONE

EM//SM =80hr ; EM//TB =320hr ;
EM//SM =40hr ; EM//TB =160hr ;
EM//EM =80hr ; EM//SM =80hr ;
EM//TB =320hr ;
EM//SM =80hr ; EM//TB =320hr ;
EM//SM =80hr ; EM//TB =320hr ;
EM//SM =80hr ; EM//TB =320hr ;
EM//SM =40hr ; EM//TB =160hr ;
EM//SM =320hr ; EM//TB =1,280hr ;
EM//SM =80hr ; EM//TB =320hr ;
EM//SM =120hr ; EM//TB =480hr ;
EM//SM =40hr ; EM//TB =160hr ;
EM//EM =80hr ; EM//SM =80hr ;
EM//TB =480hr ;

76 - Tooling Design & Fabrication

Job: 7601 - Tooling Design & Fabrication-PERRY

713.020	Lab Fab/Assy/Installation	348	01JUN09*	20OCT10		488	31,319.01
713.030	Tooling,assy fixtures,misc equipt	348	01JUN09*	20OCT10		488	85,487.93
713.040	General procurements	348	01JUN09*	20OCT10		488	64,115.95
713.050	Welding tools, materials & equipt	348	01JUN09*	20OCT10		488	113,983.91
713.060	Torque wrenches and multipliers	348	01JUN09*	20OCT10		488	120,782.82

EM//EM =80hr ; EM//SM =42hr ;
EM//TB =140hr ;
41=60\$k ;
41=45\$k ;
41=80\$k ;
41=80\$k ; EM//EM =40hr ;

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
8 - Project Oversight and Support													
81 - Project Management and Control													
Job: 8101 - Project Management & Control-NEILSON													
FY07 Rebaseline Exercise													
ECP53RBX16	FY07 Rebaseline exercise	22*	01MAY07*	31MAY07		1,333	4,526.60	R///RM3 =20hr;					
810.005	Project Management Office PPPL FY07	102*	01MAY07	24SEP07		1,253	234,323.45	R///RM3 =.75 fte rate ; FC//AM =.80 fte rate B///CB =.3 fte rate ; 35=10\$K ; 35=04\$K ;					
810.900	Project Management Office PPPL FY08	250*	01OCT07*	30SEP08		999	587,420.28	R///RM3 =.75 fte rate ; FC//AM =.80 fte rate B///CB =.3 fte rate ; 35=10\$K ; 41=10\$K ;					
810.901	Project Management Office PPPL FY09	290	01OCT08*	30NOV09		709	700,727.63	R///RM3 =.75 fte rate ; FC//AM =.80 fte rate B///CB =.3 fte rate ; 35=10\$K ; 41=10\$K ;					
810.909	Project Management Office PPPL FY10	248	02DEC09	01DEC10		206	416,401.62	R///RM3 =.5 fte ; FC//AM =.5 fte 35=06\$K ; B///CB =.25 fte 41=08\$K ;					
Job: 8102 - NCSX MIE Management ORNL-LYON													
810.104X	Project Management Office ORNL FY07	106*	01MAY07	28SEP07		1,249	60,420.00	ORNL81 =60\$;					
810.105X	Project Management Office ORNL FY08	248*	02OCT07*	29SEP08		1,000	120,000.00	ORNL81 =\$10k/mo.					
810.105Z	Project Management Office ORNL FY09	290	02OCT08*	01DEC09		708	139,200.00	ORNL81 =\$10k/mo.					
810.106X	Project Management Office ORNL FY10	248	02DEC09	01DEC10		206	75,000.00	ORNL81 =75\$;					
82 - Project Engineering													
Job: 8202 - Engr Mgmt & Sys Eng Support-REIERSEN													
FY07 Rebaseline Exercise													
ECP53RBX19	FY07 Rebaseline exercise	22*	01MAY07*	31MAY07		1,333	30,227.70	EA//EM =170hr;					
820.04X	Proj engr FY07	103*	01MAY07	25SEP07		1,252	143,956.83	EA//EM =647hr ; 35=05\$K ; EM//EM =108hr ; EE//AM =72 ;					
820.004Z	Proj engr FY08	246*	02OCT07*	25SEP08		210	397,094.02	EA//EM =1,553hr ; 35=05\$K ; EM//EM =259hr ; EE//AM =173 ; EE//EM =259hr ;					
820.004X	Proj engr FY09 (LOE)	290	02OCT08*	01DEC09		206	480,443.57	Reiersen .9 fte rate, dudek .15 fte rate Such .1 fte rate, vonhalle .15 fte rate					
820.005	Proj engr (last year of project)	248	02DEC09	01DEC10		206	318,399.50	EA//EM =1,316hr ; 35=03\$K ; EM//EM =108hr ; EE//AM =173 ; EE//EM =129hr ;					
8205FY07	Systems Engineering Support FY07	103*	01MAY07	25SEP07		1,252	51,209.28	EA//EM =288hr ;					
8205FY08	Systems Engineering Support FY08	250*	01OCT07*	30SEP08		999	128,174.40	EA//EM =690hr ;					
8205FY08X	Systems Engineering Support FY09	290	01OCT08*	30NOV09		709	153,780.02	Simmons .4 fte rate					
8205FY09	Systems Engineering Support FY10	248	02DEC09	01DEC10		206	137,205.16	EA//EM =690hr ;					
Job: 8203 - Design Integration-BROWN													
8203FY07	Design Integration FY07	106*	01MAY07	28SEP07		1,249	152,637.87	EA//EM =719hr ; EA//SB =216hr ;					
8203FY08	Design Integration FY08	249*	01OCT07*	29SEP08		1,000	382,735.14	EA//EM =1,726hr ; EA//SB =518hr ;					

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year										
								FY07	FY08	FY09	FY10	FY11	FY12					
8203FY08X	Design Integration FY09	290	01OCT08*	30NOV09		709	459,255.18									EA/EM =1.0 fte rate ; EA/SB = .3 fte rate		
8203FY09	Design Integration FY10	248	02DEC09	01DEC10		206	409,699.65									EA/EM =1,726hr ; EA/SB =518hr ;		
Job: 8204 - Systems Analysis-BROOKS																		
8204FY07	Systems Analysis FY07	106*	01MAY07	28SEP07		1,249	235,953.87									EA/EM =647hr ; EA/EM =680hr ;		
8204FY08	Systems Analysis FY08	249*	01OCT07*	29SEP08		1,000	448,796.16									EA/EM =1,553hr ; EA/EM =863hr ;		
8204FY08X	Systems Analysis FY09	290	01OCT08*	30NOV09		709	541,015.96									EA/EM Brooks .9fte rate EA/EM Fan .5 fte rate		
8204FY09	Systems Analysis FY10	248	02DEC09	01DEC10		206	480,416.92									EA/EM =1,553hr ; EA/EM =863hr ;		
Job: 8205 - Dimensional Control Coordin-REIERSEN																		
METFY07R1	Metrology for FP & machine assy FY07	106*	01MAY07	28SEP07		1,249	130,050.23									EA/EM =731hr ;		
METFY08R	Metrology for FP & machine assy FY08	247*	03OCT07*	29SEP08		1,000	224,583.84									EA/EM =1,209hr ;		
METFY08RX	Metrology for FP & machine assy FY09	290	03OCT08*	02DEC09		577	272,521.66									EA/EM =.70 fte rate		
METFY09	Metrology for FP & machine assy FY10	130	03DEC09*	15JUN10		577	125,684.25									EA/EM =144hr ;		
Job: 8210 - FY07 Rebaseling tasks																		
FY07 Rebaseline Exercise																		
ECP53RBX23	FY07 Rebaseline exercise	22*	01MAY07*	31MAY07		1,333	19,701.76									EM/EM =128hr ;		
ECP53RBX24	FY07 Rebaseline exercise	22*	01MAY07*	31MAY07		1,333	16,082.08									EC/EM =112hr ;		
ECP53RBX25	FY07 Rebaseline exercise	22*	01MAY07*	31MAY07		1,333	3,654.20									EE/EM =22hr ;		
Job: 8215 Plant Design																		
FY07 Rebaseline Exercise																		
8210-07	Plant Design FY07	106*	01MAY07*	28SEP07		1,249	24,296.28									EM/EM =40hr ; EA/SB =136hr ; EM/SM =20hr ;		
8210-08	Plant Design FY08	250*	01OCT07*	30SEP08		999	33,874.08									EM/EM =96hr ; EA/SB =48hr ; EM/SM =96hr ;		
8210-08X	Plant Design FY09	290	01OCT08*	30NOV09		709	40,215.96									EM/EM =.055fte rate ; EA/SB =.03 fte rate EM/SM =.055 fte rate		
8210-09	Plant Design FY10	248	02DEC09	01DEC10		206	36,259.45									EM/EM =96hr ; EA/SB =48hr ; EM/SM =96hr ;		
85 - Integrated Systems Testing																		
Job: 8501 - Integrated Systems Testing-GENTILE																		
Startup Documentation																		
8501-105	ESHD-5008 Environ, Safety, and Health Manual	0	01MAY07A	01MAY07A			0.00									EM/EM =00hr ; EM/SM =00hr ;		
8501-109	ESH-014 NEPA Review System	0	01MAY07A	01MAY07A			0.00									EM/EM =00hr ; EM/SM =00hr ;		
8501-113	ESH-016 Cntrl Haz Energy Sources Lockout Tagout	0	01MAY07A	01MAY07A			0.00									EM/EM =00hr ; EM/SM =00hr ;		
8501-117	ENG-030 PPPL Tech Procd for Exper Facilities	0	01MAY07A	01MAY07A			0.00									EM/EM =00hr ; EM/SM =00hr ;		
8501-121	ENG-032 PPPL Work Planning Procedure	0	01MAY07A	01MAY07A			0.00									EM/EM =00hr ; EM/SM =00hr ;		
8501-125	ENG-033 PPPL Engineering Design Verification	0	01MAY07A	01MAY07A			0.00									EM/EM =00hr ; EM/SM =00hr ;		
8501-101	SAD NCSX Safety Assessment Document (SAD)	45	03NOV08*	15JAN09		365	48,236.80									EM/EM =160hr ; EM/SM =160hr ;		
8501-129	NCSX-XX, Administrative Control of Procedures	30	24NOV08	15JAN09		353	24,118.40									EM/EM =80hr ; EM/SM =80hr ;		
8501-133	OP-AD-39, Conduct of Operations	10	16JAN09	29JAN09		353	6,029.60									EM/EM =20hr ; EM/SM =20hr ;		
8501-137	OP-AD-56, Cntrl Equip & Syst Status (chain of c	10	23JAN09	05FEB09		353	6,029.60									EM/EM =20hr ; EM/SM =20hr ;		

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
8501-141	OP-AD-24, Cntrl Workplace Cleanliness D-Site Exp	10	30JAN09	12FEB09		353	6,029.60						
8501-145	OP-AD-31, D- Site Fire Watch Requirements	10	06FEB09	19FEB09		353	6,029.60						
8501-149	OP-AD-03, Experimental Proposals for NCSX	10	13FEB09	26FEB09		353	6,029.60						
8501-153	OP-AD-117 Operation of the NCSX Access System	10	20FEB09	05MAR09		353	6,029.60						
8501-157	NCSX-OP-XX, Prep of Exper Areas for Machine Ops	30	27FEB09	09APR09		353	18,088.80						
8501-161	NCSX-OP-XX, Operation of the NCSX TVPS	30	20MAR09	30APR09		353	18,088.80						
8501-165	NCSX-OP-XX, Testing NCSX HIS Safe for Access	30	10APR09	21MAY09		353	18,088.80						
8501-169	NCSX-OP-XX, Testing the NCSX Emergency Stop Syst	30	01MAY09	12JUN09		353	18,088.80						
8501-173	NCSX-OP-XX, NCSX Training Matrix	30	22MAY09	06JUL09		353	18,088.80						
8501-177	NCSX-OP-XX, NCSX Ops Guide -Startup and Shutdown	30	15JUN09	27JUL09		353	18,088.80						
8501-181	NCSX-OP-XX, HPP Daily Operations	20	14JUL09	10AUG09		353	12,059.20						
8501-185	NCSX-OP-XX, ACP & PDP Trip Control Settings	20	28JUL09	24AUG09		353	12,059.20						
8501-189	NCSX-OP-G-XX Preparation for NCSX pumpdown	30	11AUG09	22SEP09		353	18,088.80						
8501-193	NCSX-OP-XX Helium H/C System Operations Procedur	30	01SEP09	13OCT09		353	18,273.30						
8501-197	NCSX-OP-G-XX Daily Hi-Pot Test Vacuum Vessel	30	23SEP09	03NOV09		353	18,580.80						
8501-201	ISTP-NCSX-01 Coil EnergizationTests	40	14OCT09	10DEC09		353	24,938.40						
8501-205	OP-ECS-245 FCPC Daily Startup/Shutdown Procedure	20	25NOV09	05JAN10		353	12,469.20						
8501-209	NCSX-XX Leak Checking of NCSX	20	11DEC09	19JAN10		353	12,469.20						
920.000	Startup Personnel	88*	28JUL10	01DEC10	1	206	411,629.90						
8501-102	Punch list & CSIS & HIS PTP's complete,	5	28JUL10	03AUG10	1	220	0.00						
8501-103	PTP's complete for ECS,HCS,vac pmpg	5	04AUG10	10AUG10	1	220	0.00						
8501-104	ACC review and ORA	5	11AUG10	17AUG10	1	220	0.00						
8501-301	Configure for Startup ISTP	5	18AUG10	24AUG10	1	220	0.00						
8501-305	Coil Testing at room temp	5	25AUG10	31AUG10	1	220	0.00						
730.1250	PSO Operational Readiness Assessment	0		17AUG10	1	220	0.00						
8501-106	Coil testing @ cryo temp, Pump-down VV	5	13OCT10	19OCT10	1	220	0.00						
8501-107	Combined field testing, Make 1st Plasma	5	20OCT10	26OCT10	1	220	0.00						
8501-108	Vent VV, Config for & instl e-beam mapping	5	27OCT10	02NOV10	1	220	0.00						
8501-306	E-beam mapping	5	03NOV10	09NOV10	1	220	0.00						
8501-110	NCSX Startup Complete	0		01DEC10	1	206	0.00						
730.9000	CD-4	0		28SEP11*	1	0	0.00						

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EM//EM =40hr ; EM//SM =40hr ;
EM//EM =40hr ; EM//SM =40hr ;

EM//EM =340hr ; EA//EM =100hr ;
EM//SB =680 ; EM//TB =300hr ;
EE//EM =300hr ; EE//SM =300hr ;
EC//EM =300hr ; R//RM2 =400hr ;

COMPLETE OPERATIO
DOE LEVEL 2 MILESTO

COMPLETE CD-4
DOE LEVEL 1 MILESTONE

	Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Budgeted Cost	FY07	FY08	FY09	FY10	FY11	FY12
Allocations														
99 - PPPL Allocations														
Job: 8998 - Allocations-STRYKOWSKY														
	99.07	PPPL Allocations FY07	106*	01MAY07*	28SEP07		1,249	146,987.80						
	99.07W	Scrap value of Kirksite dies (minimum sale price)	22*	01MAY07A	31MAY07A			-120,000.00						
	99.07X	Retroactive MHX exclusion	22*	01MAY07A	31MAY07A			-232,000.00						
	99.08	PPPL Allocations FY08	249*	01OCT07*	29SEP08		1,000	384,384.00						
	99.081	PPPL Allocations FY09	247*	01OCT08*	28SEP09		752	406,232.00						
	99.09	PPPL Allocations FY10	248*	01OCT09*	30SEP10		502	430,800.00						
Contingency														
Contingency-Project														
	C08	Contingency FY08	249*	01OCT07*	29SEP08		1,000	3,800,000.00						
	C09	Contingency FY09	247*	01OCT08*	28SEP09		752	4,300,000.00						
	C10	Contingency FY10	246*	01OCT09*	28SEP10		504	3,700,000.00						
	C11	Contingency FY11	248*	01OCT10*	28SEP11		254	3,236,000.00						
Funding														
Funding'														
	F07	Funding FY07	19*	04SEP07*	28SEP07		1,249	16,771,000.00						
	F08	Funding FY08	249*	01OCT07*	29SEP08		1,000	15,900,000.00						
	F09	Funding FY09	247*	01OCT08*	28SEP09		752	18,200,000.00						
	F10	Funding FY10	246*	01OCT09*	28SEP10		504	18,900,000.00						
	F11	Funding FY11	248*	01OCT10*	28SEP11		254	19,500,000.00						
Actual Cost														
Actual Cost														
	COST FY03	FY03 Cost	197	01APR03A	30SEP03A			5,941,920.00						
	COST FY04	FY04 Cost	197	01OCT03A	30SEP04A			14,314,350.00						
	COST FY05	FY05 Cost	197	01OCT04A	30SEP05A			18,131,610.00						
	COST FY06	FY06 Cost	197	01OCT05A	29SEP06A			19,072,810.00						
	COSTFY0306	FY07 Oct through April 30	197	01OCT06A	30APR07A			9,780,830.00						
Row	Group Name													
1	ppl plan								*	14611196	17598310	14741132	3903535	
4	orn plan								*	1304709	652746	493942	14352	
									FY07	FY08	FY09	FY10	FY11	FY12

Row	Group Name					
5					
6	tot plan	*	15915905	18251056	15235075	3917887
7	..					
9	funding	*	15900000	18200000	18900000	19500000
10	...					
11	continge		3800000	4300000	3700000	3236000
		FY07	FY08	FY09	FY10	FY11
						FY12