

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
<b>cc 9450 - NCSX Fabrication (MIE)</b>															
<b>1 - Stellarator Core Systems</b>															
<b>12 - Vacuum Vessel Systems</b>															
<b>Job: 1204 - VV Sys Procurements (nonVVSA)-DUDEK</b>															
<b>VV Vertical Supports</b>															
124-037		PPPL Fab VV Vert. Sprts (log # M1091) (complet	197	01MAY07A	01MAY07A				0.00						
<b>VV Personnel Access Port &amp; Lateral sprts</b>															
124-110		Issue req,Bid & Award VV NB port cover	25	01OCT09*	04NOV09		81		0.00						
124-120		Award VV NB port cover	0		04NOV09*		81		0.00						
124-130		VV NB port cover Fabrication	40	05NOV09	13JAN10		81		83,786.32						
<b>VV Local I&amp;C</b>															
1204-101		Drawings Signed -Local I&C	0		01MAY07*		360		0.00						
1204-105		Issue req,Bid & Award -Local I&C	25	02MAY07	06JUN07		360		0.00						
1204-109		Award -Local I&C	0		06JUN07		360		0.00						
1204-113		Deliver -Local I&C	40	07JUN07	02AUG07		360		34,400.96						
<b>Thermal Insulation</b>															
123-040		Issue req,Bid & Award insul boots	25	26FEB08	31MAR08		76		0.00						
123-045		Award Insulation Boots	0		31MAR08*		76		0.00						
123-050		Fabricate& Deliver Insul Boots	130	01APR08	02OCT08		76		72,997.33						
122-035		Issue req,Bid & Award Port Thermal Insulation	25	27FEB08	01APR08		115		0.00						
122-041		Award Port Thermal Insulation	0		01APR08*		115		0.00						
122-051		Deliver Port Thermal Insulation	40	02APR08	28MAY08		115		32,700.00						
122-030		Issue req,Bid & Award Pourable Insulation	25	27AUG09	01OCT09		176		0.00						
122-036.9		Award Pourable Insulation	0		01OCT09*		176		0.00						
122-037		Deliver Pourable Insulation	40	02OCT09	30NOV09		176		114,560.00						
<b>Heater Tape for Port Stub</b>															
1204-121		Drawings Signed Heater Tape for port stubs	0		04SEP07*		140		0.00						
1204-125		Issue req,Bid & Award -Heater Tape for port stub	25	05SEP07	09OCT07		140		0.00						
1204-129		Award Heater Tape for port stubs	0		09OCT07		140		0.00						
1204-130		Deliver Heater Tape for port stubs	40	10OCT07	06DEC07		140		20,143.20						
<b>T/C and Heater Tape Leads</b>															
1204-145		Issue req,Bid & Award-T/C and Heater Tape Leads	25	29AUG07	03OCT07		136		0.00						
1204-149		Award T/C and Heater Tape Leads	0		03OCT07		136		0.00						
1204-153		Deliver T/C and Heater Tape Leads	40	04OCT07	28NOV07		136		36,951.00						

Run Date 03JUL07 10:43



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										FY07	FY08	FY09	FY10	FY11	
<b>Flux loop junction boxes and spacer templates</b>															
1204-173M		Material Delivery (desifn/fab in job 3101)	35	20JUN07	08AUG07		187		12,275.12		41=9.62				
<b>Job: 1250 - Vacuum Vessel Fabrication**CLOSED**</b>															
99.07W		Scrap value of Kirksite dies (minimum sale price)	22*	01MAY07A	31MAY07A				-161,694.72						
<b>13 - Conventional Coils</b>															
<b>Job: 1361 - TF Fabrication-KALISH</b>															
<b>TF Title III and Fabrication Oversight</b>															
131-033		Title III engr	348*	01MAY07	18SEP08		332		214,628.87		EA/EM =1060hr ; 35=05\$K ; 41=8 em//tb=68				
<b>TF Fabrication Contract</b>															
1361C-101		Fab, Test & Deliver Coil #1	33*	29MAY07*	13JUL07		361		27,210.00		48=27 ;				
1361C-102		Fab, Test & Deliver Coil #2	45*	01JUN07*	03AUG07		391		43,590.00		48=44 ;				
1361C-103		Fab, Test & Deliver Coil #3	65*	01JUN07*	31AUG07		379		47,210.00		48=47 ;				
1361C-104		Fab, Test & Deliver Coil #4	1	28SEP07*	28SEP07		360		47,210.00		48=47 ;				
1361C-104M	2	** DELIVER TF COILS FOR FPA #1 ASSY **	0		28SEP07		360		0.00		***** LEVEL II MILESTONE DATE DECEMBER 2007 *****				
1361C-105		Fab, Test & Deliver Coil #5	1	26OCT07*	26OCT07		422		47,210.00		48=47 ;				
1361C-106	3	Fab, Test & Deliver Coil #6	1	23NOV07*	23NOV07		402		47,210.00		48=47 ;				
1361C-107		Fab, Test & Deliver Coil #7	1	21DEC07*	21DEC07		393		47,210.00		48=47 ;				
1361C-108		Fab, Test & Deliver Coil #8	1	18JAN08*	18JAN08		380		47,210.00		48=47 ;				
1361C-109		Fab, Test & Deliver Coil #9	1	12FEB08*	12FEB08		374		47,210.00		48=47 ;				
1361C-110		Fab, Test & Deliver Coil #10	1	06MAR08*	06MAR08		357		47,210.00		48=47 ;				
1361C-111		Fab, Test & Deliver Coil #11	1	31MAR08*	31MAR08		348		47,210.00		48=47 ;				
1361C-112		Fab, Test & Deliver Coil #12	1	23APR08*	23APR08		331		47,210.00		48=47 ;				
1361C-113		Fab, Test & Deliver Coil #13	1	16MAY08*	16MAY08		418		47,210.00		48=47 ;				
1361C-114		Fab, Test & Deliver Coil #14	1	10JUN08*	10JUN08		402		47,210.00		48=47 ;				
1361C-115		Fab, Test & Deliver Coil #15	1	03JUL08*	03JUL08		385		47,220.00		48=47 ;				
1361C-116		Fab, Test & Deliver Coil #16	1	28JUL08*	28JUL08		369		47,220.00		48=47 ;				
1361C-117		Fab, Test & Deliver Coil #17	1	20AUG08*	20AUG08		352		47,220.00		48=47 ;				
1361C-118		Fab, Test & Deliver Coil #18	1	12SEP08*	12SEP08		336		47,220.00		48=47 ;				
1351-195X	3	ALL TF COILS DELIVERED	0		18SEP08		332		0.00		▽				
<b>FY07 Rebaseline Exercise</b>															
ECP53RBX03		FY07 Rebaseline exercise	22*	01MAY07A	31MAY07A				1,422.48		EA/EM =08hr ;				
99.07X		Retroactive MHX exclusion	22*	01MAY07A	31MAY07A				-38,281.20						

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										FY07	FY08	FY09	FY10	FY11	
<b>Job: 1302 - PF Design -KALISH</b>															
<b>FY07 Rebaseline Exercise</b>															
ECP53RBX02		FY07 Rebaseline exercise	22*	01MAY07A	31MAY07A				4,623.06	EA//EM =40hr ;					
1302-200		Complete PF Coil SRD	20	01AUG07*	28AUG07			15	4,267.44	EA//EM =24hr ;					
1302-205		Update PF Analysis	40	29AUG07	24OCT07			67	29,022.00	EA//EM =160hr ;					
1302-210		Update PF Coil SDD	40	25OCT07	21DEC07			67	4,458.24	EA//EM =24hr ;					
1302-211		Complete PF4 PDR Model	20	29AUG07	26SEP07			15	14,224.80	EA//EM =00hr ; EA//DM =80 ;					
1302-212		Complete PF5 PDR Model	20	27SEP07	24OCT07			15	14,797.20	EA//EM =00hr ; EA//DM =80 ;					
1302-213		Complete PF6 PDR Model	20	25OCT07	21NOV07			15	14,860.80	EA//EM =00hr ; EA//DM =80 ;					
1302-251		PDR Level Design Support Support	62	29AUG07	23NOV07			23	10,976.34	EA//EM =60hr ;					
1302-220		Prepare for PDR	10	22NOV07	07DEC07			15	16,346.88	EA//EM =52hr ; EA//DM =36 ;					
1302-225	2	PDR	2	10DEC07	11DEC07			15	2,972.16	EA//EM =16hr ;					
1302-214		Prepare,Review & Approve conductor spec	20	02JAN08*	29JAN08			32	2,972.16	EA//EM =16hr ; EA//SB =00hr ;					
1302-216		Prepare,Review & Approve coil spec	20	30JAN08	26FEB08			32	8,916.48	EA//EM =48hr ; EA//SB =00hr ;					
1302-240		Disposition PDR Chits	20	12DEC07	17JAN08			55	4,458.24	EA//EM =24hr ;					
1302-235		Detail Drawings PF4	20	12DEC07	17JAN08			15	14,860.80	EA//DM =80 ;					
1302-245		Detail Drawings PF5	20	18JAN08	14FEB08			15	14,860.80	EA//DM =80 ;					
1302-260		Detail Drawings PF6	20	15FEB08	13MAR08			15	14,860.80	EA//DM =80 ;					
1302-250		Analysis Support	60	12DEC07	13MAR08			15	13,003.20	EA//EM =70hr ;					
1302-217		Drawing Support	60	12DEC07	13MAR08			15	11,145.60	EA//EM =60hr ; EA//SB =00hr ;					
1302-218		PF Stress Analysis with leads	30	12DEC07	31JAN08			45	22,291.20	EA//EM =120hr ; EA//SB =00hr ;					
1302-265		Prepare for FDR	5	14MAR08	20MAR08			15	16,346.88	EA//EM =52hr ; EA//DM =36 ;					
1302-270	3	PF FDR	2	21MAR08	24MAR08			15	2,972.16	EA//EM =16hr ;					
1302-275		Resolve Chits	20	25MAR08	21APR08			110	14,860.80	EA//EM =80hr ;					
<b>Job: 1352 - PF Coil Procurement-KALISH</b>															
<b>PF Coil Fabrication</b>															
141-035		Bid & Award PF Coil Fabrication	45	25MAR08	27MAY08			15	35,811.60	EA//EM =160hr ; 35=05\$K ;					
141-036	2	PF Coils Awarded	0		27MAY08			15	0.00	EA//EM =48hr ;					
141-037		Bid & Award Conductor	25	22APR08	27MAY08			85	8,916.48	EA//EM =48hr ;					
141-038	3	PF Conductor Awarded	0		27MAY08*			85	0.00	41=114.4\$K ;					
141-038.1		PF Conductor Delivery	65	28MAY08	27AUG08			85	149,635.20	EA//EM =48hr ;					
141-039		Bid & Award Materials	25	27JUN08	01AUG08			58	8,916.48	41=136\$K ;					
141-040		PF Materials Awarded	0		01AUG08*			58	0.00	48=273.9\$K ;					
1352-100		Materials Delivery PF 4,5,6	45	04AUG08	06OCT08			58	178,529.66	48=320.1\$K ;					
1352-121		Design/Fab Tooling for PF 5	80	28MAY08	18SEP08			15	280,747.50	48=72\$K ;					
1352-122		Design/Fab Tooling for PF 6	80	28JUL08*	17NOV08			18	331,639.61	48=20.1 ;					
1352-120		Tooling for PF 4	55	25JUL08*	10OCT08			54	74,072.29						
1352-150		Fabricate/Divr PF 4 lower	35	13OCT08	02DEC08			54	21,125.10						

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										FY07	FY08	FY09	FY10	FY11	
1352-151		Fabricate/Dlvr PF 4 upper	45	03DEC08	12FEB09		405		21,125.10						
1352-165		Fabricate/Dlvr PF 5 Lower	45	19SEP08	20NOV08		15		73,821.95						
1352-145		Fabricate/Dlvr PF 6 Lower	45	21NOV08	04FEB09		15		86,654.95						
1352-166		Fabricate/Dlvr PF 5 Upper	35	05FEB09	25MAR09		341		74,148.05						
1352-146		Fabricate/Dlvr PF 6 Upper	35	26MAR09	13MAY09		341		86,654.95						
141-031		Title III engr WBS 132	241	28MAY08	14MAY09		846		148,348.45						
141-900		PF4 Lower Inspection & Test	5	03DEC08	09DEC08		54		3,561.30						
141-900A		PF4 Upper Inspection & Test	5	13FEB09	19FEB09		405		3,561.30						
141-901		PF5 Lower Inspection & Test	5	21NOV08	01DEC08		60		3,561.30						
141-902		PF6 Lower Inspection & Test	5	05FEB09	11FEB09		15		3,561.30						
141-905		PF5 Upper Inspection & Test	5	26MAR09	01APR09		376		3,561.30						
141-906		PF6 Upper Inspection & Test	5	14MAY09	20MAY09		341		3,561.30						
141-903		Refurbish PF 1a	20	18FEB10*	17MAR10		101		6,820.80						
141-904		Assemble PF1a and CS structure	30	18MAR10	28APR10		101		21,550.00						
<b>Job: 1353 - CS Structure Procurement-DAHLGREN</b>															
<b>CS Support Structure</b>															
1353-001		Design PF1a upper to lower interconnect bus	30	20APR09	01JUN09		101		12,342.00						
1353-002		Engr & analysis of bus	20	02JUN09	29JUN09		101		15,296.80						
1353-003		Bid & Award PF1a bus	45	30JUN09	01SEP09		101		0.00						
1353-004		Award PF1a bus	0		01SEP09*		101		0.00						
1353-005		Fab & Deliver PF1a bus	130	02SEP09	17MAR10		101		48,162.54						
163-035		Bid & Award CS Support Struct	45	30JUN09	01SEP09		101		0.00						
163-036.9		Award CS Support Structure	0		01SEP09*		101		0.00						
163-037		CS Support Structure Procurement/Fab	130	02SEP09	17MAR10		101		247,857.24						
163-015		Title III design CS sprt struc	175*	30JUN09	17MAR10		101		13,670.70						
<b>Job: 1354 - Trim Coil Design &amp; Procurement-KALISH</b>															
<b>Trim Coils</b>															
1303-101		Complete Trim Coil SRD	10	01OCT08*	14OCT08		13		1,529.68						
1303-103		Analysis	15	15OCT08*	04NOV08		13		15,296.80						
1303-105		FDR Dwg for coils and supports	20	05NOV08*	04DEC08		13		16,061.64						
1303-107		Prepare for FDR	5	05DEC08*	11DEC08		13		3,059.36						
1303-110		Trim Coil FDR	1	12DEC08*	12DEC08		13		1,529.68						
1303-112		Prepare Procurement Coil Spec	5	15DEC08*	19DEC08		28		4,589.04						
1303-114		Disposition FDR Chits	5	15DEC08*	19DEC08		28		1,529.68						
1303-116		Detail Fabrication Drawings	20	15DEC08*	20JAN09		13		12,237.44						
184-035		Bid & Award Ext Trim Coils	45	21JAN09	24MAR09		13		4,589.04						
184-036		Award External Trim Coils	0	25MAR09	24MAR09		13		0.00						
184-037		External Trim Coil & Supports Procurement	88	25MAR09	28JUL09		13		47,078.90						
1303-040		Procure materials for supports	20	22DEC08	27JAN09		121		11,574.04						
1303-041		Fabricate Supports	20	28JAN09	24FEB09		121		6,357.76						

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										FY07	FY08	FY09	FY10	FY11	
1303-042		Install supports onto coils	15	29JUL09	18AUG09		13		11,185.84						
184-015		Title III WBS 133 Rxt Trim Coils	88	25MAR09	28JUL09		13		25,285.36						
<b>Job: 1355 - WBS 13 I&amp;C Proc and Coil Assy-KALISH</b>															
<b>TF/PF Loacl I&amp;C</b>															
1355-101		Design, and Review	60	01FEB08*	24APR08		86		11,145.60						
1355-103		Prepare Installation Procedures	20	25APR08	22MAY08		86		3,715.20						
1355-105		FDR	1	23MAY08	23MAY08		86		1,486.08						
1355-107		Prep req,bid,award T/C and wire	20	27MAY08	23JUN08		86		2,229.12						
1355-109		Deliver of T/C and wire	40	24JUN08	19AUG08		86		13,080.00						
1355-111		Installation on PF4,5,6 Coils upon delivery	20	15JAN09	11FEB09		15		9,745.80						
1355-112		Installation on TF Coils upon delivery	45	01OCT08*	04DEC08		57		29,046.19						
1355-113		Installation on PF1a Coils upon delivery	3	15MAR10	17MAR10		101		1,561.87						
<b>14 - Modular Coils</b>															
<b>Job: 1404 - MCWF R&amp;D 1st Prod Casting**CLOSED**</b>															
99.07Z		Retroactive MHX exclusion	22*	01MAY07A	31MAY07A				-35,940.00						
<b>Job: 1416 - Mod Coil Type AB Fnl Dsn-WILLIAMSON</b>															
<b>Clamp hardware modifications</b>															
1416-204.1		Modify Type-B clamps for stud attachment	9	02JUL07*	13JUL07		62		7,786.00						
<b>Blanket thermal insulation</b>															
1416-304		Revise assembly models/drawings	5	01JUN07*	07JUN07		79		9,343.20						
1416-305		Review and approve insulation concept	5	08JUN07*	14JUN07		79		6,449.70						
1416-3198		Report Results & Issue Dwgs	10	15JUN07	28JUN07		79		7,651.28						
<b>Top level assy models/drawings</b>															
1416-503		Complete models/drawings of power cable connect	80	01AUG07*	21NOV07		79		19,030.68						
1416-504		Complete models/drawings of protective covers	80	01AUG07*	21NOV07		79		19,030.68						
1416-507		Update, review and approve coil asm spec	21	31OCT07*	28NOV07		137		12,940.80						
1416-508		Complete drawing rev to leads, terminal asm (ECN	21	01MAY07	30MAY07		202		12,457.60						
1416-506	3	Check and promote top-level models/drawings	80	01AUG07	21NOV07		79		12,687.12						
<b>Analysis and closeout documentation</b>															
1416-601	3	Prepare EM and structural analysis of leads	27	01OCT07*	06NOV07		65		110,106.72						
1416-602		Design memo KF structural analysis	15	07NOV07	27NOV07		65		15,528.96						
1416-603		Update, review and approve FMECA	5	28NOV07	06DEC07		65		9,705.60						
1416-604		Finalize draft documents - materials, eddy curre	5	07DEC07	13DEC07		65		6,470.40						
1416-605	3	Prepare Type-ABC closeout FDR	15	14DEC07	14JAN08		65		11,646.72						
1416-606		Resolve FDR comments	15	15JAN08	04FEB08		65		11,646.72						

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<b>Type C Design Closeout</b>															
1403-47C		Perform cool-down/warmup analysis	26	01OCT07*	05NOV07		445		7,430.40		EA/EM =40hr ;				
<b>Job: 1408 - MC Winding Supplies-CHRZANOWSKI</b>															
1408-1		Procure Batt insulation	22*	01MAY07*	31MAY07		99		10,208.00		41=08\$K ;				
1408-2		Epoxy (existing order)	187	23MAY07*	25FEB08		125		58,166.95		41=45\$K ;				
1408-3		Misc and safety supplies (\$7k/mo.)	188	23MAY07*	26FEB08		189		81,438.89		41=63\$K ;				
1408-4		Procure & Deliver Thermocouples	50	02JUL07*	11SEP07		16		22,968.00		41=18\$K ;				
1408-4.1		Procure & Deliver Strain Gages	65	03DEC07*	11MAR08		137		54,936.00		41=42\$K ;				
1408-5		Epoxy/glass for mold shell	164	23MAY07*	23JAN08		126		16,775.71		41=13\$K ;				
1408-6		VPI clean manifold contract	210	23MAY07*	27MAR08		128		12,942.86		41=10\$K ;				
1408-7		Misc tech shop support	250	23MAY07*	22MAY08		127		50,461.70		EMT/TB =640 ;				
1408-8		Cutting hardware for flange bolts	250	23MAY07*	22MAY08		1,089		3,889.44		41=3k				
<b>Job: 1411 - MCWF Fabr. S005242-HEITZENROEDER</b>															
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		48=-1.8				
MCWF-571		B6-MTM - machining/inspection	213*	31JUL06A	06JUN07		214		0.00						
MCWF-581		B6-Receive at PPPL	0		07JUN07		214		0.00						
MCWF-004		PPPL Overisght	28	01MAY07	08JUN07		1,360		7,112.40		EA/EM =40hr ;				
MCWF-301		C6-MTM - machining/inspection	276*	03APR06A	08MAY07		207		0.00						
MCWF-311		C6-Receive at PPPL	0		09MAY07		207		0.00						
<b>Job: 1451 - Mod Coil Winding-CHRZANOWSKI</b>															
<b>Station 1a/4 Casting Prep</b>															
P1-061		Receive A5, Prep& Instl Cladding	24*	19APR07A	22MAY07	2*	83		48,955.65		EM/TB =245hr ; EMT/TB =124 ; EM2/TB =245 ;				
P3-061		Receive B5, Prep& Instl Cladding	27	16JUL07*	21AUG07	1.5	75		48,878.96		EM/TB =244hr ; EMT/TB =124 ; EM2/TB =245 ;				
P1-151		Receive A6, Prep& Instl Cladding	27	19SEP07*	25OCT07	1.5	56		50,420.72		EM/TB =244hr ; EMT/TB =124 ; EM2/TB =245 ;				
P2-031		Receive C6, Prep& Instl Cladding	27	15NOV07*	03JAN08	1.5	75		51,069.88		EM/TB =244hr ; EMT/TB =124 ; EM2/TB =245 ;				
P3-151		Receive B6, Prep& Instl Cladding	27	31JAN08*	07MAR08	1.5	56		51,069.88		EM/TB =244hr ; EMT/TB =124 ; EM2/TB =245 ;				
<b>Station 2-Winding, Instl Chill Plates,Tubing,Bag</b>															
P2-161		Wind coil B4	41*	16APR07A	12JUN07	2	102		127,103.90		EM/TB =774hr ; EM2/TB =774 ; EMT/TB =32 ;				
P2-170		Instl Chill Plates,Tubing,Bag B4	22	13JUN07	13JUL07	2	102		63,131.60		EM/TB =392hr ; EM2/TB =392 ;				
P3-071		Wind coil B5	38	22AUG07	15OCT07	2	75		128,745.11		EM/TB =774hr ; EM2/TB =774 ; EMT/TB =32 ;				
P3-080		Instl Chill Plates,Tubing,Bag B5	22	16OCT07	14NOV07	2	75		65,946.16		EM/TB =392hr ; EM2/TB =392 ;				
P2-041		Wind coil C6	38	04JAN08	26FEB08	2	87		132,773.54		EM/TB =774hr ; EM2/TB =774 ; EMT/TB =32 ;				

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year						
										FY07	FY08	FY09	FY10	FY11		
P2-050		Instl Chl Plates,Tubing, Bag C6	22	27FEB08	27MAR08	2	87		65,946.16						EM/TB =392hr ; EM2/TB =392 ;	
<b>Station 4-Winding, Instl Chill Plates,Tubing,Bag</b>																
P2-080		Instl Chill Plates,Tubing,Bag B3	28*	01APR07A	09MAY07	2	92		63,131.60						EM/TB =392hr ; EM2/TB =392 ;	
P2-131		Wind coil A5	38	23MAY07	17JUL07	2	83		127,103.90						EM/TB =774hr ; EM2/TB =774 ; EMT/TB =32 ;	
P2-140		Instl Chl Plates,Tubing, Bag A5	44	18JUL07	18SEP07	1	83		63,131.60						EM/TB =392hr ; EM2/TB =392 ;	
P1-161		Wind coil A6	38	26OCT07	20DEC07	2	56		132,773.54						EM/TB =774hr ; EM2/TB =774 ; EMT/TB =32 ;	
P1-170		Instl Chill Plates,Tubing,Bag A6	22	21DEC07	30JAN08	2	56		65,946.16						EM/TB =392hr ; EM2/TB =392 ;	
P3-161		Wind coil B6	38	10MAR08	30APR08	2	56		132,773.54						EM/TB =774hr ; EM2/TB =774 ; EMT/TB =32 ;	
P3-170		Instl Chill Plates,Tubing,Bag B6	22	01MAY08	02JUN08	2	56		65,946.16						EM/TB =392hr ; EM2/TB =392 ;	
<b>Station 5-VPI</b>																
P2-081V		VPI (Station 5) B3	11	10MAY07	24MAY07	2	164		45,759.76						EM/TB =276hr ; EM2/TB =277 ; EMT/TB =16 ;	
P3-081V		VPI (Station 5) B4	11	16JUL07	30JUL07	2	202		45,759.76						EM/TB =276hr ; EM2/TB =277 ; EMT/TB =16 ;	
P1-081V		VPI (Station 5) A5	11	19SEP07*	03OCT07	2	194		46,316.56						EM/TB =276hr ; EM2/TB =277 ; EMT/TB =16 ;	
P2-171V		VPI (Station 5) B5	11	15NOV07	03DEC07	2	167		47,801.36						EM/TB =276hr ; EM2/TB =277 ; EMT/TB =16 ;	
P1-171V		VPI (Station 5) A6	11	01FEB08*	15FEB08	2	134		47,801.36						EM/TB =276hr ; EM2/TB =277 ; EMT/TB =16 ;	
P2-051V		VPI (Station 5) C6	11	28MAR08	11APR08	2	87		47,801.36						EM/TB =276hr ; EM2/TB =277 ; EMT/TB =16 ;	
P3-171V	2	VPI (Station 5) B6	11	03JUN08	17JUN08	2	56		47,801.36						EM/TB =276hr ; EM2/TB =277 ; EMT/TB =16 ;	
<b>Station 1 Post VPI</b>																
P3-141C		Final Clamps & Warm Test (Station1) A4	15	06JUL07*	26JUL07	1	121		24,913.84						EM/TB =140hr ; EM2/TB =139 ; EMT/TB =32 ;	
P2-081C		Final Clamps & Warm Test (Station1) B3	15	27JUL07	16AUG07	1	121		24,913.84						EM/TB =140hr ; EM2/TB =139 ; EMT/TB =32 ;	
P3-081C		Final Clamps & Warm Test (Station1) B4	15	17AUG07	07SEP07	1	189		24,913.84						EM/TB =140hr ; EM2/TB =139 ; EMT/TB =32 ;	
P1-081C		Final Clamps & Warm Test (Station1) A5	15	02NOV07*	22NOV07	1	173		26,027.60						EM/TB =140hr ; EM2/TB =139 ; EMT/TB =32 ;	
P3-171C		Final Clamps & Warm Test (Station1) B5	15	04DEC07	02JAN08	1	167		26,027.60						EM/TB =140hr ; EM2/TB =139 ; EMT/TB =32 ;	
P1-171C		Final Clamps & Warm Test (Station1) A6	15	18FEB08	07MAR08	1	134		26,027.60						EM/TB =140hr ; EM2/TB =139 ; EMT/TB =32 ;	
P2-051C		Final Clamps & Warm Test (Station1) C6	15	14APR08	02MAY08	1	87		26,027.60						EM/TB =140hr ; EM2/TB =139 ; EMT/TB =32 ;	
P2-171C		Final Clamps & Warm Test (Station1) B6	15	18JUN08	09JUL08	1	56		26,027.60						EM/TB =140hr ; EM2/TB =139 ; EMT/TB =32 ;	
<b>LOE Oversight &amp; Supervision</b>																
145XSPRV-1		Winding Engineering oversight and supervision	298*	01MAY07	09JUL08			1,057	535,291.51						Chrzanowski=120hrs/mo.;Meighan=120 hrs/mo.	
145XSPRV-2		Winding Engineering oversight and supervision	250*	01MAY07	30APR08			1,105	153,206.93						Raftopolous=70hrs/mo.	
145XSPRV-3		Winding Engineering oversight and supervision	337*	01MAY07	03SEP08			1,018	177,664.60						Languish=70 hrs/mo.	
<b>Job: 1459 - Mod Coil Fabr.Punch List-CHRZANOWSKI</b>																
<b>Punchlist Tech shop/RESA</b>																
PLTS-B2		Grinding -B2	18*	25JUN07*	19JUL07	1	44		16,028.21						EM/TB =209hr ;	
PLTS-A2		Grinding -A2	5	03JUL07*	10JUL07	1	49		3,757.81						EM/TB =49hr ;	

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year				
										FY07	FY08	FY09	FY10	FY11
PLTS-B1		Grinding -B1	5	11JUL07*	17JUL07	1	49		3,757.81					
PLTS-A1		Grinding -A1	18	30JUL07*	22AUG07	1	41		6,825.41					
PLTS-C1		Grinding & Drill Holes -C1	20	23AUG07	20SEP07	1	61		18,405.60					
PLTS-C2		Grinding & Drill Holes -C2	20	21SEP07	18OCT07	1	61		18,980.16					
PLTS-C3		Grinding & Drill Holes -C3	20	19OCT07	15NOV07	1	61		19,226.40					
PLTS-C4		Grinding & Drill Holes -C4	20	16NOV07	17DEC07	1	61		19,226.40					
PLTS-A3		Grinding -A3	5	18DEC07	02JAN08	1	75		3,925.39					
PLTS-B3		Grinding -B3	5	03JAN08	09JAN08	1	87		3,925.39					
PLTS-A4		Grinding -A4	5	10JAN08	16JAN08	1	99		3,925.39					
PLTS-B4		Grinding -B4	5	17JAN08	23JAN08	1	105		3,925.39					
PLTS-C5		Grinding & Drill Holes -C5	20	24JAN08	20FEB08	1	105		19,226.40					
PLTS-A5		Grinding -A5	5	21FEB08	27FEB08	1	118		3,925.39					
PLTS-B5		Grinding -B5	5	28FEB08	05MAR08	1	127		3,925.39					
PLTS-A6		Grinding -A6	5	10MAR08	14MAR08	1	134		3,925.39					
PLTS-B6		Grinding -B6	5	10JUL08	16JUL08	1	56		3,925.39					
PLTS-C6		Grinding & Drill Holes -C6	20	17JUL08	13AUG08	1	56		19,226.40					
<b>Punchlist- Coil Technicians</b>														
PLCT-B2		Insul,measure,TC other punch list-B2	7	15AUG07*	23AUG07	2	26		15,798.14					
PLCT-A2		Insul,measure,TC, other punch list-A2	7	10SEP07	18SEP07	2	16		15,798.14					
PLCT-B1		Insul,measure,TC, other punch list-B1	7	19SEP07	27SEP07	2	16		15,798.14					
PLCT-A1		Insul,measure,TC, other punch list-A1	9	28SEP07	10OCT07	2	16		20,331.15					
PLCT-C1		Insul,measure,TC, other punch list-C1	18	11OCT07	05NOV07	1	53		20,748.49					
PLCT-C2		Insul,measure,TC, other punch list-C2	9	06NOV07	16NOV07	2	53		20,428.05					
PLCT-C3		Insul,measure,TC, other punch list-C3	18	19NOV07	14DEC07	1	62		20,748.49					
PLCT-C4		Insul,measure,TC, other punch list-C4	19	18DEC07	22JAN08	1	61		22,110.36					
PLCT-A3		Insul,measure,TC, other punch list-A3	17	23JAN08	14FEB08	1	61		19,306.51					
PLCT-B3		Insul,measure,TC, other punch list-B3	14	15FEB08	05MAR08	1	64		16,502.66					
PLCT-A4		Insul,measure,TC, other punch list-A4	17	06MAR08	28MAR08	1	64		19,306.51					
PLCT-B4		Insul,measure,TC, other punch list-B4	14	31MAR08	17APR08	1	64		16,502.66					
PLCT-C5		Insul,measure,TC, other punch list-C5	18	18APR08	13MAY08	1	64		20,428.05					
PLCT-A5		Insul,measure,TC, other punch list-A5	14	14MAY08	03JUN08	1	64		16,502.66					
PLCT-B5		Insul,measure,TC, other punch list-B5	14	04JUN08	23JUN08	1	64		16,502.66					
PLCT-A6		Insul,measure,TC,SG other punch list-A6	14	24JUN08	14JUL08	1	64		16,502.66					
PLCT-B6		Insul,measure,TC,SG other punch list-B6	14	17JUL08	05AUG08	1	62		16,502.66					
PLCT-C6	2	Insul,measure,TC,SG other punch list-C6	14	14AUG08	03SEP08	1	56		16,422.55					
<b>Job: 1421 - Mod Coil Interface Design-WILLIAMSON</b>														
<b>Outboard Interface</b>														
IH4-020		Prepare outboard shim dwgs and release	45	01MAY07	03JUL07		33		9,343.20					
INTRF-045	3	FDR prep outboard shims	10	05JUL07	18JUL07		33		6,228.80					
INTRF-046		FDR outboard shims	0		18JUL07		33		0.00					



Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
INTRF-047		Resolve chit's and issue outboard shim drawings	6	19JUL07	26JUL07		36		9,343.20	ornlem=60					
<b>Outboard Interface-Bolted Joint Tests-Tension</b>															
1421-3067		Procure 2 studs f/joint test.Use existing part	61*	01MAY07	26JUL07		0		6,188.48	EM//EM =08hr ; 41=01\$K ; EM//TB =48hr ;					
1421-3075		Setup test fixture &perform JHA & pre-job brief	2	27JUL07*	30JUL07		7		2,458.40	EM//EM =08hr ; EM//TB =16hr ;					
1421-3077		Meas joint deflect vs preload & loss of preload	3	31JUL07	02AUG07		7		5,534.64	EM//EM =24hr ; EM//TB =24hr ;					
1421-3079		Measure joint deflec & preload v. temp @80K	3	03AUG07	07AUG07		7		5,534.64	EM//EM =24hr ; EM//TB =24hr ;					
1421-3084		Measure joint deflection&preload v. cooldown cyc	3	08AUG07	10AUG07		7		5,534.64	EM//EM =24hr ; EM//TB =24hr ;					
1421-3087		Perform pullout tests for tapped holes	3	13AUG07	15AUG07		7		5,534.64	EM//EM =24hr ; EM//TB =24hr ;					
1421-3081		Meas joint deflect & preload v. time (days) at	20	16AUG07	13SEP07		7		36,897.60	EM//EM =160hr ; EM//TB =160hr ;					
1421-3090		Document&conduct review of test results	5	14SEP07	20SEP07		7		6,156.80	EM//EM =40hr ;					
<b>Outboard Interface-Bolted Joint Tests-Shear</b>															
1421-3112B		Procure/fab parts for test&initial assembly	60*	01MAY07	25JUL07		1		18,916.80	41=10\$K ; em//em=40					
1421-3115B		Assemble & test	31	27JUL07	10SEP07		0		57,499.40	ORNLLEM =320hr ; EM//TB=100					
1421-3119B		Document test results	15	11SEP07	01OCT07		0		12,489.81	ORNLLEM =80hr ;					
<b>Outboard Interface-Friction</b>															
1429-3026		COF cyclic testing	14*	01MAY07	18MAY07		14		29,970.00	may pppl cost =29.972k					
<b>Inboard Interface-Design</b>															
IH1-001		Coil to coil scoping analysis	62	01MAY07	27JUL07		21		116,974.40	ORNLLEM =520hr ; ornlem&s=36					
1421-3125		Determine geometry&location of high COF shims&pl	40	01MAY07	26JUN07		3		12,457.60	ornlem =80hr ;					
1421-3127		Structural analyses to performance rqmts for bol	20	27JUN07	25JUL07		18		37,372.80	ORNLLEM =240hr ;					
1421-3131		PDR prep for requirements, design,&development	5	26JUL07	01AUG07		18		6,228.80	ORNLLEM =40hr ;					
1421-3132		PDR to review requirements, design,&development	0		01AUG07		18		0.00	▼					
<b>Inboard Interface-AB/BC/AA</b>															
INTRF-049		prepare winding form mods for weld clamp bolts	50	13JUN07*	22AUG07		3		46,716.00	ornlem=300					
INTRF-050		Complete Shim fabrication drawings (ORNL)	40	27JUN07*	22AUG07		3		37,372.80	ornlem=240					
INTRF-051		Release info for procurement of shim material	64*	01MAY07	31JUL07		18		3,737.28	ornlem=24					
INTRF-054	3	FDR prep AB/BC/AA inboard shims	5	28AUG07	04SEP07		0		6,156.80	em//em=40					
INTRF-055		FDR AB/BC/AA inboard shims	0		04SEP07		0		0.00	▼					
<b>Inboard Interface-CC</b>															
IH1-000		ESTABLISH CONCEPT	36	01JUN07*	23JUL07		64		105,889.60	ORNLLEM =680hr ;					
IH1-0000		PEER REVIEW OF JOINT CONCEPT	8	24JUL07	02AUG07		64		12,457.60	ORNLLEM =80hr ;					
1421-3143		Add bolt holes to C winding form dwg CC interfac	11	03AUG07*	17AUG07		64		21,800.80	ORNLLEM =140hr ;					
1421-3143X		Release dwg for add'l holes in C coil	0		17AUG07		64		0.00	▼					
1421-3145		Bolt reach & access study (mockup)	6	01OCT07*	08OCT07		449		32,352.00	ORNLLEM =200hr ;					
1421-3140		Prep C-C shim drawings and release	14	09OCT07	26OCT07		449		58,233.60	ORNLLEM =360hr ;					
1421-3142		FDR Prep for C-C shims	42	29OCT07	07JAN08		449		6,470.40	ORNLLEM =40hr ;					
1421-3144	3	FDR C-C Shims	0		07JAN08		449		0.00	▼					

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted						
										FY07	FY08	FY09	FY10	FY11	
<b>Welded Joint Tests-Procedure</b>															
INTRF-035		PPPL Determine shim material	23	01MAY07	01JUN07		7		7,112.40						
INTRF-001		PPPL buy SS plate for weld trials	10	04JUN07	15JUN07		7		40,787.36						
INTRF-005		Weld distortion trials at PPPL on SS plate	21	18JUN07	17JUL07		7		6,156.80						
INTRF-025		ORNL build plywood mockup of flange	20	14MAY07*	11JUN07		22		51,800.80						
INTRF-030		ORNL verify weld access	7	12JUN07	20JUN07		22		45,228.80						
INTRF-010		Develop Weld Geometry Procedure	5	13JUL07	19JUL07		7		7,112.40						
<b>Welded Joint Tests-Tests</b>															
INTRF-015		Weld trials on two MCWF's at PPPL	15	20JUL07	09AUG07		7		59,603.60						
INTRF-020		Document results and update weld procedure	10	10AUG07	23AUG07		7		21,337.20						
<b>Overall MC Interface</b>															
INTRF-040		ANalysis of tensile loads (ORNL)	75	01MAY07	15AUG07		13		49,830.40						
1421-3134		Issue interface dwgs for comment	75	01MAY07	15AUG07		0		46,716.00						
1421-3135		FDR Prep	13	16AUG07	04SEP07		0		6,228.80						
1421-3136	2	Conduct BC,AB,AA,Interface FDR incl job 1416	0		04SEP07		0		0.00						
1421-3138		Resolve issues, release assembly spec&drawings	5	05SEP07	11SEP07		0		37,372.80						
<b>Job: 1431 - Mod. Coil Interface Hardware-DUDEK</b>															
<b>Bladders</b>															
1421-3022		Receive first 5 Bladders	10	02JUL07*	16JUL07		45		0.00						
1421-3023		Test Bladders	10	17JUL07	30JUL07		45		0.00						
1421-3024		Prep Req, Bid,& Award Bladders	10	31JUL07	13AUG07		45		0.00						
1421-3025		Deliver bladders	5	14AUG07	20AUG07		45		16,396.60						
1421-3028		Bladders available for FPA	0		20AUG07		45		0.00						
<b>Bushings</b>															
1421-3105		Prep Req, Bid,& Award Bushings	15	01MAY07	21MAY07		59		0.00						
1421-3106		Deliver Bushings Material	29	22MAY07	02JUL07		59		10,271.80						
1421-3107		PPPL Machine bushings Bushings	248	01AUG07*	29JUL08		39		44,051.62						
1421-3108		Bushings available for first coil-to-coil fitup	0	29AUG07			39		0.00						
1421-3109		All Bushings delivered	0		29JUL08		105		0.00						
<b>Shims-Outboard</b>															
1429-3059		Requisition,Bid,Award Shim Stock (out & inboard)	15	01AUG07	21AUG07		18		0.00						
1429-3060		Deliver Shim Stock	10	22AUG07	05SEP07		18		77,274.56						
1429-3062		PPPL Cut, Grind, debur Outboard Shims	130	06SEP07	18MAR08		18		19,262.52						

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	FY					
										FY07	FY08	FY09	FY10	FY11	
1429-3065		Prep Req, Bid, Award Alumina Application	15	27JUL07	16AUG07		36		0.00						
1429-3066		Apply Alumina to OutboardShims	130	13SEP07	25MAR08		18		42,152.99						
1429-3069		Outboard Shims Available for 1st 3 pack MC assy	0	20SEP07			18		0.00						
S21-5.04X	2	Shims required for 1st 3 pack MC assy	0	31OCT07			0		0.00						
1429-3070		Outboard Shims Available for 2nd 3 pack MC assy	0	18OCT07			83		0.00						
1429-3071		Outboard Shims Available for 3rd 3 pack MC assy	0	03DEC07			90		0.00						
1429-3072		Outboard Shims Available for 4th 3 pack MC assy	0	23JAN08			113		0.00						
1429-3073		Outboard Shims Available for 5th 3 pack MC assy	0	20FEB08			159		0.00						
1429-3074		Outboard Shims Available for 6th 3 pack MC assy	0	26MAR08			187		0.00						
<b>Shims-Inboard</b>															
1429-3062X		PPPL cut, grind and debur Inboard Shims	130	12SEP07	24MAR08		54		19,286.01						
1429-3069X		Inboard Shims Available for 1st 3 pack MC assy	0	19SEP07			54		0.00						
1429-3070X		Inboard Shims Available for 2nd 3 pack MC assy	0	17OCT07			84		0.00						
1429-3071X		Inboard Shims Available for 3rd 3 pack MC assy	0	28NOV07			109		0.00						
1429-3072X		Inboard Shims Available for 4th 3 pack MC assy	0	22JAN08			132		0.00						
1429-3073X		Inboard Shims Available for 5th 3 pack MC assy	0	19FEB08			167		0.00						
1429-3074X		Inboard Shims Available for 6th 3 pack MC assy	0	25MAR08			194		0.00						
<b>Shims- C-C Joint</b>															
1429-3062C		PPPL Cut, Grind, debur Outboard Shims	10	01OCT09*	14OCT09		12		8,170.84						
1429-3066C		Apply Alumina to OutboardShims	40	08OCT09	04DEC09		12		9,308.00						
1429-3075X		Shims Req'd for C-C joint	0	07DEC09			12		0.00						
<b>Studs,Washers,Nuts</b>															
1421-3060		Deliver Stud Kit (PE007330) (for 1st 3 pack only	57*	01MAY07A	20JUL07		66		98,992.08						
1421-3061		Stud kit available for 1st 3 pack MC assy	0		20JUL07		66		0.00						
1421-3062		Re-order balance of stud kits	65	19JUL07	18OCT07		78		408,475.32						
1421-3063		Stud kits available for balance of MC assy	0		18OCT07		78		0.00						
1421-3065		Deliver Superbolts (PE007332)	22*	01MAY07A	31MAY07		101		157,905.00						
1421-3070		Order Add'l stud kits for c-c joint&weld clmp	15	01OCT07*	19OCT07		181		0.00						
1421-3072		Deliver Add'l stud kits for c-c joint&weld clmp	30	22OCT07	04DEC07		181		59,827.92						
1421-3080		Purchase G-11 shims and machine for C-C inboard	65	01OCT07*	10JAN08		497		5,728.80						
1421-3066		Super bolts available for FPA	0		31MAY07		101		0.00						
<b>Misc Tech Shop Support</b>															
1421-4000		Misc Tech Shop support through FPA sta 3	250*	01OCT07*	30SEP08		999		76,905.60						
<b>15 - Coil Structures</b>															
<b>Job: 1501 - Coil Structures Design-DAHLGREN</b>															
1501-521		Complete Preliminary Stress analysis	11	04JUN07*	18JUN07		171		12,446.70						

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year				
										FY07	FY08	FY09	FY10	FY11
1501-522		Prelim CAD models & Dwgs	30	04JUN07*	16JUL07		149		28,449.60	ea//dm=160				
1501-525		PDR Prep	3	17JUL07	19JUL07		149		3,556.20	EA//EM =10hr ; EA//DM =10 ;				
1501-525P	3	PDR	1	20JUL07*	20JUL07		149		1,422.48	EA//EM =04hr ; EA//DM =04 ;				
1501-533		Detail CAD Drawings,BOM	40	23JUL07	17SEP07		149		60,455.40	■ EA//EM =20hr ; EA//DM =320 ;				
1501-533F		Integrated Stress Analysis	40	23JUL07	17SEP07		149		42,674.40	■ EA//EM =240hr ;				
1501-537		FDR Prep	3	18SEP07	20SEP07		149		2,667.15	EA//EM =10hr ; EA//DM =05 ;				
1501-541	3	FDR Coil Structures	1	21SEP07	21SEP07		149		1,422.48	EA//EM =04hr ; EA//DM =04 ;				
1501-545		Resolve Chits	20	24SEP07	19OCT07		149		7,350.90	■ EA//EM =20hr ; EA//DM =20 ;				
1501-549		Update C.S.Support Design	10	24SEP07	05OCT07		154		10,907.10	EA//EM =20hr ; EA//DM =40 ;				
1501-550		Peer Review Updated C.S.Design	3	08OCT07	10OCT07		154		1,486.08	EA//EM =04hr ; EA//DM =04 ;				
1501-554		Resolve Chits from peer review	2	11OCT07	12OCT07		154		7,430.40	EA//EM =08hr ; EA//DM =08 ;				
1501-558		Prepare requisition for Coil Structure & CSS h/w	10	22OCT07	02NOV07		149		743.04	EA//EM =04hr ;				
1501-562		Prepare Specs for Coil Structure & CSS h/w	10	15OCT07	26OCT07		154		1,857.60	EA//EM =10hr ;				
ECP53RBX09		FY07 Rebaseline exercise	22*	01MAY07*	31MAY07		1,333		7,112.40	■ ORNLEM =40hr ;				

**Job: 1550 - Coil Struct. Procurement -DAHLGREN**

Activity ID	MILE-stones	Activity Description	Duration	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year				
										FY07	FY08	FY09	FY10	FY11
1501-245		Prep Spec,Solicit Bids, and Evaluate Bids	30	05MAY08	16JUN08		28		0.00					
162-036.9	2	Award Coil Support Structure	0		16JUN08*		28		0.00					
162-037	2	Fabricate TF/MCWF mounting Components	260	17JUN08	01JUL09		28		328,830.26	■ 41=239.73				
162-038		Fabricate PF Mounting components	260	17JUN08	01JUL09		28		268,267.82	■ 48=257.06				
162-039		Fabricate Final TF Assy components Components	260	17JUN08	01JUL09		28		83,133.18	■ 48=79.657				
162-040		Fabricate Machine/base support interface	260	17JUN08	01JUL09		28		92,713.42	■ 48=88.84k ;				
162-050		Prep req, bid and award G11/Teflon parts	20	16JUN08*	14JUL08		69		0.00	■				
162-051		Deliver G11/Teflon parts	90	15JUL08	18NOV08		69		155,701.41	■ 48=150.42\$K ;				
162-052		Prep req, bid and award Inconel hardware	20	16JUN08*	14JUL08		69		0.00	■				
162-053		Deliver Inconel hardware	90	15JUL08	18NOV08		69		107,848.23	■ 48=104.19\$K ;				
162-055		Prep req, bid and award Belleville Washers	20	16JUN08*	14JUL08		69		0.00	■				
162-057		Deliver Belleville Washers	90	15JUL08	18NOV08		69		25,106.83	■ 41=18.695\$K ;				
162-031		Title III engr WBS 151	260	17JUN08*	01JUL09		813		14,151.47	■ EA//EM =75hr ;				

**16 - Coil Services**

**Job: 1601 - Coil Services Design-GORANSON**

FY07 Rebaseline Exercise										Fiscal Year				
										FY07	FY08	FY09	FY10	FY11
ECP53RBX08		FY07 Rebaseline exercise	22*	01MAY07*	31MAY07		1,333		6,228.80	■ ORNLEM =40hr ;				
161 - LN2 Distribution														
191-001		Title I design WBS 161 LN2 manifolds&piping	65	02JAN08*	01APR08		99		84,115.20	■ ORNLEM =520hr ;				
191-002	3	PDR WBS 161 LN2 manifolds&piping	1	02APR08	02APR08		99		1,294.08	ORNLEM =08hr ;				
191-011		Title II design WBS 161 LN2 manifolds&piping	65	03APR08	03JUL08		99		84,115.20	■ ORNLEM =520hr ;				
191-012		FDR WBS 161 LN2 manifolds&piping	1	07JUL08	07JUL08		99		1,294.08	ORNLEM =08hr ;				
191-037		Prep Req,Bid,Award-manifolds,hoses,valves etc	25	08JUL08	11AUG08		99		0.00	■				

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
191-038		Fab and deliver-manifold assy,hoses,valves etc	90	12AUG08*	18DEC08		99		140,101.51						
191-031		Title III engr WBS 161	118	08JUL08	23DEC08		941		27,796.89						
<b>162 - Electrical Leads</b>															
132-001		Title I design WBS 162 Coil leads	155	02JUN08*	19JAN09		49		152,991.50						
132-002		PDR WBS 162 Coil leads	1	20JAN09	20JAN09		49		1,387.28						
132-011		Title II design WBS 162 Coil leads	155	21JAN09	27AUG09		150		158,843.56						
132-012		FDR WBS 162 Coil leads	1	28AUG09	28AUG09		150		1,387.28						
132-015		Title III design WBS 162 Coil leads	99	31AUG09	29JAN10		222		19,579.88						
132-037		Prep Req,Bid,Award Lead hardware and cables	25	31AUG09	05OCT09		150		0.00						
132-038		Deliver Lead hardware and cables	65	06OCT09	18JAN10		150		114,187.68						
132-047		Prep Req,Bid,Award Material for transition box	25	31AUG09	05OCT09		216		0.00						
132-048		Deliver Material for Transition Boxes	40	06OCT09	02DEC09		216		9,909.44						
132-049		Assemble Transition boxes (6)	40	03DEC09	08FEB10		216		20,462.40						
<b>163 - Coil Protection System</b>															
163.001		Design Coil protection(input to WBS 4 & 5)	65	01OCT08*	12JAN09		80		38,150.20						
<b>17 - Cryostat and Base Support Structure</b>															
<b>Job: 1702 - Base Support Struct Design-DAHLGREN</b>															
<b>1702 - Base Support Structure</b>															
1702-510		Base support structure prel. design & analysis	40	01OCT07*	23NOV07		65		74,675.52						
1702-515	3	Conduct PDR	1	26NOV07	26NOV07		65		743.04						
1702-520		Final design. Assy dwgs, fab dwgs, BOMs,specs/SO	40	27NOV07	01FEB08		65		74,675.52						
1702-525	2	FDR	1	04FEB08	04FEB08		65		743.04						
1702-530		Resolve chits, issue dwgs for fab,Issue requisit	20	05FEB08	03MAR08		65		12,631.68						
<b>Job: 1752 - Base Support Proc-DAHLGREN</b>															
<b>172 - Base Support Structure</b>															
161-036.8	3	Bid and award base support materials	25	15MAY08*	19JUN08		13		0.00						
161-036.9	3	Deliver base support materials	65	20JUN08	22SEP08		13		51,587.52						
161-037		PPPL assemble structure	35	23SEP08*	10NOV08		13		29,786.74						
161-038		Title III	261	04MAR08*	19MAR09		886		8,277.26						
<b>Job: 1701 - Cryostat Design-GETTLEFINGER</b>															
<b>1701 - Cryostat Design</b>															
1701-100		Cryostat- Conceptual Design	65	01OCT08*	12JAN09		55		15,888.00						
1701-101		Cryostat- Preliminary Design	70	21JAN09	28APR09		49		73,446.84						
1701-102		Cryostat- Stress analysis	43	27FEB09*	28APR09		49		38,242.00						
1701-103		Cryostat- Joint R&D	10	15APR09*	28APR09		49		3,298.40						
1701-121		Cryostat- PDR	1	29APR09	29APR09		49		1,324.00						
1701-131		Cryostat- Final Design	70	30APR09	07AUG09		49		73,446.84						
1701-141		Cryostat- FDR	1	10AUG09	10AUG09		49		1,324.00						

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
<b>Job: 1751 - Cryostat Procurement-GETTLEFINGER</b>															
1751-151		Cryostat- Procure Materials and Supplies	65	01OCT09*	13JAN10		122		174,575.12						
1751-161		Cryostat- Fabricate Components	65	14JAN10	14APR10		122		88,670.40						
1751-171		Cryostat- Title III	90	01OCT09	17FEB10		660		61,606.80						
<b>18 - Field Period Assembly</b>															
<b>Job: 1803/1805- FPA Tooling/Constr-BROWN/DUDEK</b>															
<b>Station 2-Modular Coil Sub- Assembly</b>															
1803-2.1		Assembly sequence plan drafted	28	01MAY07	08JUN07		65		0.00						
1803-2.2		Procure 2 20degree wedge fixt (for total of 6)	90	04SEP07*	18JAN08		80		0.00						
<b>Station 3-Modular Coil to VVSA Assembly</b>															
1803-3.2		Finalize drawings for internal review and outsid	3	25JUN07	27JUN07		111		0.00						
1803-3.3		Analyze single point lift	10	28JUN07	12JUL07		111		9,957.36						
1803-3.4	3	Stage 3 support FDR	1	13JUL07*	13JUL07		111		0.00						
1803-3.5		Flange bolt/VV support access platform	8	02JUL07*	12JUL07		112		13,773.60						
1803-3.6		Revise drawings per FDR input and release for Fa	2	16JUL07	17JUL07		111		5,509.44						
1803-3.7		Transportation study (move between test cells)	2	18JUL07	19JUL07		173		4,591.20						
1803-3.8		Generate laser trace drawing for each screen	20	16JUL07	10AUG07		157		9,182.40						
1803-3.9		Assembly sequence plan and Installation procedur	18	01JUN07*	26JUN07		168		7,112.40						
R1802-305		Metrology plan	20	01JUN07*	28JUN07		187		0.00						
1803-3.10		VV/MC clearance report (for VVSA1, 2 and 3)	21	27JUN07	26JUL07		168		12,802.32						
1803-3.11		Procure materials and fixture	88	18JUL07*	19NOV07		111		60,445.47						
<b>Station 5-Final Field Period Assembly</b>															
1803-5.1		Complete FP support models	50	01AUG07*	10OCT07		127		27,744.19						
1803-5.5		Design followup & prelim analysis	20	01AUG07*	28AUG07		187		10,668.60						
1803-5.2		Complete platform models	15	11OCT07	31OCT07		127		9,592.80						
1803-5.3		PDR	0		07NOV07		127		0.00						
R1802-503		Sequence plan	20	02MAY07*	30MAY07		240		0.00						
1803-5.4		Structural Analysis	10	08NOV07*	21NOV07		127		11,145.60						
1803-5.6	3	FDR	0		21NOV07		127		0.00						
1803-5.7		Complete dwg package and release for Fa	20	22NOV07	21DEC07		127		14,389.20						
1803-5.8		Complete models and dwgs for test cell metrology	9	02JAN08	14JAN08		163		19,185.60						
1803-5.9		Procure materials and fixture (2 stations)	65	02JAN08	01APR08		127		94,071.36						
<b>6.00-Final Machine Assembly</b>															
1803-6.1		Complete Stage 6 support models	50	03DEC07*	19FEB08		69		28,778.40						
1803-6.2		Complete platform models	30	20FEB08	01APR08		69		9,592.80						
1803-6.3		Structural Analysis	30	03DEC07*	22JAN08		119		22,291.20						
1803-6.4		PDR	0		01APR08		69		0.00						

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
1803-6.5		Complete drawing package	40	02APR08	28MAY08		69		19,185.60						
1803-6.6	3	FDR	0		04JUN08		69		0.00						
1803-6.7		Revise drawings per FDR input and release for Fa	5	05JUN08	11JUN08		69		0.00						
1803-6.9		Design followup and prelim analysis	82	03DEC07*	03APR08		112		22,291.20						
1803-6.8		Procure materials and fixture	65	02SEP08*	03DEC08		13		111,484.70						
<b>Job: 1806 - FP Assembly specs and drawings-COLE</b>															
<b>1.00-VV Prep Station</b>															
1803-609	3	Detail dwgs-spool piece	50	22AUG08	31OCT08		288		17,008.28						
<b>Station 2-Modular Coil Sub- Assembly</b>															
1803-201	3	Station 2 Assembly Specification	65	11JUN07*	11SEP07		0		12,457.60						
1803-205	3	Station 2 Assembly Drawings	65	11JUN07*	11SEP07		14		13,200.00						
<b>Station 3-Modular Coil to VVSA Assembly</b>															
1803-301		Station 3 Assembly Specification	60	24AUG07*	16NOV07		88		38,218.40						
1803-305		Station 3 Assembly Drawings	80	02AUG07*	22NOV07		84		13,287.36						
<b>Station 5-Final Field Period Assembly</b>															
1803-501		Station 5 Assembly Specification	90	03DEC07*	15APR08		97		32,352.00						
1803-505		Station 5 Assembly Drawings	90	03DEC07*	15APR08		97		20,068.80						
1803-509		Field period Assy Dwgs	90	03DEC07*	15APR08		97		40,137.60						
1803-611		Detail dwgs-welding ports	90	03DEC07*	15APR08		97		20,068.80						
<b>6.00-Final Machine Assembly</b>															
1803-601	2	Station 6 Assembly Specification	120	15APR08*	02OCT08		30		71,259.83						
1803-605	2	Station 6 Assembly Drawings	120	15APR08*	02OCT08		30		53,549.76						
1803-613		Detail dwgs-man access port	120	15APR08*	02OCT08		30		6,693.72						
1803-010		Models,design reviews, meetings,reporting,	430	01MAY07*	23JAN09		925		176,478.50						
<b>Job: 1802 - FP Assy Oversight&amp;Support-VIOLA</b>															
<b>Oversight and Supervision</b>															
1802MAY		May cost incr	20	01MAY07*	29MAY07		1,335		15,000.00						
1802ORNLO2		ORNL Title III field period assy station 2	326*	24OCT07	19FEB09		4		152,828.16						
1802ORNLO3		ORNL Title III field period assy station 3	318*	03MAR08	08JUN09		0		117,143.02						
1802ORNLO5		ORNL Title III field period assy station 5	260*	30OCT08	13NOV09		0		122,171.24						
R1802-001		Metrology Engr Super FY07	106*	01MAY07*	28SEP07		1,249		64,011.60						
R1802-003		Metrology Engr Super FY08	250*	01OCT07*	30SEP08		999		160,310.88						
R1802-004		Metrology Engr Super FY09	281*	01OCT08*	13NOV09		718		194,695.10						
R1802-004S		Metrology Engr Super FY09 (2n shft supr .5 fte	203*	30JAN09*	13NOV09	2	718		134,631.52						
R1802-005		FPA Management FY07	106*	01MAY07*	28SEP07		1,249		117,941.68						

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
R1802-007		FPA Management FY08	250*	01OCT07*	30SEP08		999		277,523.54						
R1802-008		FPA Management FY09	281*	01OCT08*	13NOV09		718		322,131.05						
R1802-013		HP Coverage in the TFTR TC LOE FY07	106*	01MAY07*	28SEP07		1,249		60,432.68						
R1802-015		HP Coverage in the TFTR TC LOE FY08	250*	01OCT07*	30SEP08		999		149,857.40						
R1802-016		HP Coverage in the TFTR TC LOE FY09	169*	01OCT08*	08JUN09		830		104,271.28						
R1810-098		Station 3 complete	0		08JUN09		830		0.00						
<b>Station 2 procedures,JHA,ACC,Training,Prep</b>															
R1802-207		Procedures written & approved	14	12SEP07	01OCT07		0		0.00						
R1802-209		JHA completed	6	02OCT07	09OCT07		0		0.00						
R1802-211		Training needs identified & released	6	10OCT07	17OCT07		0		0.00						
R1802-213		ACC review completed	2	18OCT07	19OCT07		0		0.00						
R1802-215		Pre-job brief completed	1	22OCT07	22OCT07		0		0.00						
R1802-217		Station 2 operational	1	23OCT07	23OCT07		0		0.00						
<b>Station 3 procedures,JHA,ACC,Training,Prep</b>															
R1802-307		Procedures written & approved	10	15JAN08	28JAN08		56		0.00						
R1802-309		JHA completed	6	29JAN08	05FEB08		56		0.00						
R1802-311		Training needs identified & released	6	06FEB08	13FEB08		56		0.00						
R1802-313		ACC review completed	6	14FEB08	21FEB08		56		0.00						
R1802-315		Pre-job brief completed	6	22FEB08	29FEB08		56		0.00						
<b>Station 5 procedures,JHA,ACC,Training,Prep</b>															
R1802-507		Procedures written & approved	14	16APR08	05MAY08		97		0.00						
R1802-509		JHA completed	6	06MAY08	13MAY08		97		0.00						
R1802-519		Fixtures installed	6	14MAY08	21MAY08		97		0.00						
R1802-511		Training needs identified & released	6	22MAY08	30MAY08		97		0.00						
R1802-513		ACC review completed	7	02JUN08	10JUN08		97		0.00						
R1802-515		Pre-job brief completed	7	11JUN08	19JUN08		97		0.00						
<b>Job:1810-Field Period Assy -Station 1,2,3 VIOLA</b>															
<b>General Assy Support</b>															
R1801-004S		LOE Crane support, fixt setup (2nd shift 1.2 fte	203*	30JAN09*	13NOV09	2	718		139,343.95						
R1810-001		LOE Crane support, fixture setupfor FY07	106*	01MAY07*	28SEP07		1,249		66,183.47						
R1810-003		LOE Crane support, fixture setupfor FY08	250*	01OCT07*	30SEP08		999		165,923.83						
R1810-004		LOE Crane support, fixture setupfor FY09	281*	01OCT08*	13NOV09		718		192,599.92						
R1810-005		LOE Field Supervision for FY07	106*	01MAY07*	28SEP07		1,249		98,014.08						
R1810-007		LOE Field Supervision for FY08	250*	01OCT07*	30SEP08		999		245,765.14						
R1810-008		LOE Field Supervision for FY09	281*	01OCT08*	13NOV09		718		285,266.98						
R1810-008S		LOE Field Supervision for 2nd shift 1.0 fte	203*	30JAN09*	13NOV09	2	718		206,388.38						
R1810-009		LOE Metrology sprt FY07 1.5 fte EM & 1.0 fte TB	106*	01MAY07*	28SEP07		1,249		201,895.70						
R1810-011		LOE Metrology sprt FY08 1.5 fte EM & 1.0 fte TB	250*	01OCT07*	30SEP08		999		771,108.00						
R1810-012		LOE Metrology sprt FY09 1.5 fte EM & 1.0 fte TB	281*	01OCT08*	13NOV09		718		433,249.15						



Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
R1810-013		Misc M&S FY07	106*	01MAY07*	28SEP07		1,249		19,140.00						
R1810-015		Misc M&S FY08	250*	01OCT07*	30SEP08		999		47,088.00						
R1810-016		Misc M&S FY09	281*	01OCT08*	13NOV09		718		57,664.57						
R1810-099		Station 5 complete	0		13NOV09		718		0.00						
<b>Station 1-VV Prep (hard surface components) FP#1</b>															
R1810-1105		Instl cooling lines & Weld cooling/htg risers	31	01MAY07*	13JUN07	1	340		50,099.80						
R1810-1107		Verify Instl of H/C lines,headers,manifolds	5	14JUN07	20JUN07	1	340		7,669.00						
R1810-1108		Perform final acceptance testing (H/C flow test)	5	20JUL07	26JUL07	1	320		7,669.00						
R1810-1115		Purchase pump	20	21JUN07*	19JUL07	1	320		5,104.00						
R1810-1109		Loop termination & verification	18	23AUG07	18SEP07	1	187		27,608.40						
R1810-1112		Trim seal plates	2	01OCT07*	02OCT07	1	275		3,204.40						
R1810-1110		Install Final Internal&Ext monuments & meas	4	09JAN08	14JAN08	1	116		6,408.80						
R1810-1111		Final Scan	4	15JAN08	18JAN08	1	116		6,408.80						
R1810-1114		Install heater tape on all removable ports	20	21JAN08	15FEB08	1	116		16,022.00						
R1810-1113		Prepare & transfer completed VV to holding area	2	18FEB08	19FEB08	1	116		3,204.40						
<b>Station 1- VV Prep (hrd surf cmpntsFP#2</b>															
R1810-1203		Misc Hardware	170	01JUN07*	08FEB08		1,163		2,584.38						
R1810-1209		Install cooling/htg lines to vac vsl	15	01MAY07	21MAY07	1	237		23,007.00						
R1810-1211		Weld cooling/htg risers	16	22MAY07	13JUN07	1	237		27,092.80						
R1810-1213		Verify Instl of H/C lines,headers,manifolds	5	14JUN07	20JUN07	1	390		7,669.00						
R1810-1208		Perform final acceptance testing (H/C flow test)	5	21JUN07	27JUN07	1	390		12,773.00						
R1810-1212		Trim seal plates	2	26OCT07*	29OCT07	1	258		3,204.40						
R1810-1215		Loop termination & verification	18	26NOV07	21DEC07	1	239		28,839.60						
R1810-1216		Install Final Internal&Ext monuments & meas	4	02JAN08	07JAN08	1	239		6,408.80						
R1810-1217		Final Scan	4	08JAN08	11JAN08	1	239		6,408.80						
R1810-1214		Install heater tape on all removable ports	20	14JAN08	08FEB08	1	239		16,022.00						
R1810-1219		Prepare& transfer completed VV to holding area	2	11FEB08	12FEB08	1	239		3,204.40						
<b>Station 1- VV Prep (hrd surf cmpntsFP#3</b>															
R1810-1303		Misc Hardware	139	15MAY07*	28NOV07		1,206		2,571.80						
R1810-1304		Layout diag & coolant paths on vessel	12	01MAY07	16MAY07	1	450		18,405.60						
R1810-1305		Install heater tape on vertical ports	7	17MAY07	25MAY07	1	450		10,736.60						
R1810-1307		Verify installation of heater tapes	1	02JUL07*	02JUL07	1	442		1,533.80						
R1810-1309		Attach studs forcoolant lines	3	03JUL07	06JUL07	1	442		4,601.40						
R1810-1300		Install Templates	3	25JUN07*	27JUN07	1	227		4,601.40						
R1810-1311		Wind magnetic diagnostic sensors	14	11JUL07*	30JUL07	1	219		21,473.20						
R1810-1313		Install precision magnetic diagnostic sensors	3	31JUL07	02AUG07	1	219		4,601.40						
R1810-1315		Verify installation magnetic diagnostic sensors	4	03AUG07	08AUG07	1	219		6,135.20						
R1810-1317		Install local I&C (incl thermocouples)	5	09AUG07	15AUG07	1	356		7,669.00						
R1810-1319		Verify installation of local I&C	2	16AUG07	17AUG07	1	356		3,067.60						

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year						
										FY07	FY08	FY09	FY10	FY11		
R1810-1321		Install cooling/htg lines to vac vsl	10	20AUG07	31AUG07	1	356		23,007.00							
R1810-1323		Weld cooling/htg risers	10	04SEP07	17SEP07	1	356		24,540.80							
R1810-1325		Verify Instl of H/C lines,headers,manifolds	5	18SEP07	24SEP07	1	356		7,669.00							
R1810-1308		Perform final acceptance testing (H/C flow test)	5	25SEP07	01OCT07	1	356		7,737.40							
R1810-1312		Trim seal plates	2	30OCT07	31OCT07	1	360		3,204.40							
R1810-1327		Loop termination & verification	18	02JAN08	25JAN08	1	299		28,839.60							
R1810-1328		Install Final Internal&Ext monuments & meas	4	28JAN08	31JAN08	1	299		6,408.80							
R1810-1329	3	Final Scan	4	01FEB08	06FEB08	1	299		6,408.80							
R1810-1314		Install heater tape on all removable ports	20	15FEB08*	13MAR08	1	273		16,022.00							
R1810-1331		Prepare & transfer completed VV to holding area	2	14MAR08	17MAR08	1	273		3,204.40							
<b>Station 1-Spool pieces (3) (spacers)</b>																
R1810-1S03		Attachdiagnostics, studs and coolant lines	17	03NOV08*	25NOV08	1	288		28,036.40							
R1810-1S04		Install Final Internal&Ext monuments & meas	2	26NOV08	01DEC08	1	288		3,298.40							
<b>Station 2 Trials &amp; Development</b>																
R1810-2003		Trial tensioning test on prototype with UT	3	09JUL07*	11JUL07	1	43		6,895.60							
R1810-2005		Trial bushing and shim test on prototype	12	16JUL07*	31JUL07	1	29		20,957.60							
R1810-2009		Perform trial x-y-z alignments on A1-A2.	7	02JUL07*	11JUL07	1	15		13,288.60							
R1810-2010		Perform developmental trials on A1-A2.	30	12JUL07*	22AUG07	1	15		48,566.00							
R1810-2011		Alignment mechanisms, metro equipt &positioning	26	23AUG07	28SEP07	1	15		60,242.80							
R1810-2013		Procure alignment mechanisms, fiducials, lifting	40	02AUG07*	27SEP07	1	17		62,576.00							
R1810-2015		Develop procedures for torquing bolts	4	09JUL07*	12JUL07	1	31		6,135.20							
R1810-2050		Weld trials f/nose welding (in job 1421	15*	20JUL07	09AUG07	1	7		89,320.00							
R1810-2051		Bushing test A-B	7	09JUL07*	17JUL07	1	27		8,589.28							
R1810-2052		Bushing test B-C	7	18JUL07	26JUL07	1	27		8,589.28							
R1810-2017		Determine fiducial types&locations	11	13JUL07*	27JUL07	1	31		19,423.80							
R1810-2001		Misc Hardware and hardware rework (1/2 fte loe)	260	01MAY07	14MAY08	1	1,095		88,516.60							
<b>Setup</b>																
R1810-2023		Install FIRST Holding 20 deg fixture	4	09JUL07*	12JUL07	1	70		8,687.20							
R1810-2025		Install SECOND Holding 20 deg fixture	3	01AUG07*	03AUG07	1	45		7,153.40							
R1810-2027		Install THIRD Holding 20 deg fixture	6	06AUG07*	13AUG07	1	45		11,754.80							
R1810-2029		Install LAST Holding 20 deg fixture	3	14AUG07*	16AUG07	1	45		7,153.40							
R1810-2004		Receive Drawings & Hardware (shims & Bolts)	7	12SEP07	20SEP07	1	163		10,736.60							
R1810-2006		Surface grind set of metal shims for qualifcat	4	04SEP07*	07SEP07	1	32		18,405.60							
R1810-207		Compress alumina shims and sort	6	20SEP07*	27SEP07	1	18		9,202.80							
R1810-209		Perform metrology setup & checks	22	10SEP07*	09OCT07	1	10		7,777.82							
R1810-2021		Tools&tooling available for FPA operations	2	01OCT07	02OCT07	1	15		9,744.40							
R1810-2002		Test out Equip & Procedures	7	02OCT07	10OCT07	1	9		11,215.40							
R1810-2108		HARDWARE,DRAWINGS,& PROCURES AVAILABLE STATION 2	0		23OCT07	1	0		0.00							

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
<b>Pre-Measuring and fitup checks</b>															
<b>Pre measurement of MCHP A1,B1,C1 flanges</b>															
S21-1.01		Verify mating MC's A1,B1,C1	4	20JUL07*	25JUL07	1	1		6,135.20		EM//TB =80hr ;				
S21-1.02		Epoxy paint all close fitting interfacing surfac	3	26JUL07	30JUL07	1	1		4,601.40		EM//TB =60hr ;				
S21-2.01		Set A1 on pre-measured fixt, "B" side down	1	31JUL07	31JUL07	1	1		1,533.80		EM//TB =20hr ;				
S21-2.02		Align to the conical seats locking into of 8	2	01AUG07	02AUG07	1	1		0.00		ZMET =40 ;				
S21-2.03		Estab global coord sys on mc geometry. Meas monu	7	03AUG07	13AUG07	1	1		0.00		ZMET =140 ;				
S21-2.04		Meas tooling ball monuments on winding form.	1	14AUG07	14AUG07	1	1		0.00		ZMET =20 ;				
S21-2.05		Scan the "A" flange of the Type-A1 coil.	1	15AUG07	15AUG07	1	1		0.00		ZMET =20 ;				
S21-2.07		Remove A1 coil from stand	1	16AUG07	16AUG07	1	1		1,533.80		EM//TB =20hr ;				
S21-2.08		Measure B1 "A" flange	14	17AUG07	06SEP07	1	1		3,067.60		EM//TB =40hr ; ZMET =220 ;				
S21-2.11		Measure C1 "A" flange	13	07SEP07	25SEP07	1	1		3,067.60		EM//TB =40hr ; ZMET =220 ;				
S21-2.14		Measure Type A1-A2 "A" flange	13	26SEP07	12OCT07	1	1		3,172.83		EM//TB =40hr ; ZMET =220 ;				
S21-3.02		Grind shims first article fassy process qu	4	15OCT07	18OCT07	1	1		6,408.80		EM//TB =80hr ;				
S21-4.02		Perform metrology set-up and checks	2	19OCT07	22OCT07	1	1		0.00		ZMET =40 ;				
S21-3.03		Ready For Preassembly A1B1C1	0		22OCT07	1	1		0.00		▼				
<b>Pre measurement of MCHP A2,B2,C2 flanges</b>															
S22-2.08		Measure B2 "A" flange	14	01NOV07	20NOV07	1	4		3,204.40		EM//TB =40hr ; ZMET =220 ;				
S22-2.11		Measure C2 "A" flange	13	21NOV07	11DEC07	1	4		3,204.40		EM//TB =40hr ; ZMET =220 ;				
S22-2.14		Measure Type A1-A2 "A" flange	13	12DEC07	08JAN08	1	4		3,204.40		EM//TB =40hr ; ZMET =220 ;				
S22-1.01		Verify mating MC's of MCHP will come together	4	23OCT07	26OCT07		4		6,408.80		EM//TB =80hr ;				
S22-1.02		Epoxy paint all close fitting interfacing surfac	3	29OCT07	31OCT07		4		4,806.60		EM//TB =60hr ;				
S22-3.02		Compress alumina shims sort by thickness	4	09JAN08	14JAN08		4		6,408.80		EM//TB =80hr ;				
S22-4.02		Perform metrology set-up and checks	2	15JAN08	16JAN08		4		0.00		ZMET =40 ;				
S22-4.03		Ready For Preassembly A2B2C2	0		16JAN08		4		0.00		▼				
<b>Pre measurement of MCHP A3,B3,C3 flanges</b>															
S23-1.01		Verify mating MC's of MCHP will come together	4	17JAN08	22JAN08		4		6,408.80		EM//TB =80hr ;				
S23-1.02		Epoxy paint all close fitting interfacing surfac	3	23JAN08	25JAN08		4		4,806.60		EM//TB =60hr ;				
S23-2.01		Set the A3 coil on fixture, A side flange down	1	28JAN08	28JAN08		4		1,602.20		EM//TB =20hr ;				
S23-2.02		Align to the conical seats locking into min of 8	2	29JAN08	30JAN08		4		0.00		ZMET =40 ;				
S23-2.03		Measure monuments on fixture and walls.	7	31JAN08	08FEB08		4		0.00		ZMET =140 ;				
S23-2.04		Measure tooling ball monuments	1	11FEB08	11FEB08		4		0.00		ZMET =20 ;				
S23-2.05		Scan the B flange of A3	1	12FEB08	12FEB08		4		0.00		ZMET =20 ;				
S23-2.07		Remove A3 move to holding area.	1	13FEB08	13FEB08		4		1,602.20		EM//TB =20hr ;				
S23-2.08		Measure B3 "A" flange	14	14FEB08	04MAR08		4		3,204.40		EM//TB =40hr ; ZMET =220 ;				
S23-2.11		Measure C3 "A" flange	13	05MAR08	21MAR08		4		3,204.40		EM//TB =40hr ; ZMET =220 ;				
S23-2.14		Measure Type A3-A4 "A" flange	13	24MAR08	09APR08		4		3,204.40		EM//TB =40hr ; ZMET =220 ;				
S23-3.02		Compress alumina shims sort by thickness	4	10APR08	15APR08		4		4,806.60		EM//TB =60hr ;				
S23-4.02		Perform metrology set-up and checks	2	16APR08	17APR08		4		0.00		ZMET =40 ;				
S23-4.03		Ready For Preassembly A3B3C3	0	18APR08	17APR08		4		0.00						
<b>Pre measurement of MCHP A4,B4,C4 flanges</b>															
S24-2.08		Measure B2 "A" flange	14	29APR08	16MAY08	1	4		3,204.40		EM//TB =40hr ; ZMET =220 ;				

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year									
										FY07	FY08	FY09	FY10	FY11					
S24-2.11		Measure C2 "A" flange	13	19MAY08	05JUN08	1	4		3,204.40										EM//TB =40hr ; ZMET =220 ;
S24-2.14		Measure Type A1-A2 "A" flange	13	06JUN08	24JUN08	1	4		3,204.40										EM//TB =40hr ; ZMET =220 ;
S24-1.01		Verify mating MC's of MCHP will come together	4	18APR08	23APR08		4		6,408.80										EM//TB =80hr ;
S24-1.02		Epoxy paint all close fitting interfacing surfac	3	24APR08	28APR08		4		4,806.60										EM//TB =60hr ;
S24-3.02		Compress alumina shims sort by thickness	4	25JUN08	30JUN08		4		6,408.80										EM//TB =80hr ;
S24-4.02		Perform metrology set-up and checks	2	01JUL08	02JUL08		4		0.00										ZMET =40 ;
S24-4.03		Ready For Preassembly A4B4C4	0	03JUL08	02JUL08		4		0.00										
Pre measurement of MCHP A5,B5,C5 flanges																			
S25-2.08		Measure B5 "A" flange	14	01AUG08	20AUG08		4		3,204.40										EM//TB =40hr ; ZMET =220 ;
S25-2.11		Measure C5 "A" flange	13	21AUG08	09SEP08		4		3,204.40										EM//TB =40hr ; ZMET =220 ;
S25-2.14		Measure Type A5-A6 "A" flange	13	10SEP08	26SEP08		4		3,204.40										EM//TB =40hr ; ZMET =220 ;
S25-1.01		Verify mating MC's of MCHP will come together	4	03JUL08	09JUL08		4		6,408.80										EM//TB =80hr ;
S25-1.02		Epoxy paint all close fitting interfacing surfac	3	10JUL08	14JUL08		4		4,806.60										EM//TB =60hr ;
S25-2.01		Set the A5 coil on fixture, A side flange down	1	15JUL08	15JUL08		4		1,602.20										EM//TB =20hr ;
S25-2.02		Align to the conical seats locking into min of 8	2	16JUL08	17JUL08		4		0.00										ZMET =40 ;
S25-2.03		Measure monuments on fixture and walls.	7	18JUL08	28JUL08		4		0.00										ZMET =140 ;
S25-2.04		Measure tooling ball monuments	1	29JUL08	29JUL08		4		0.00										ZMET =20 ;
S25-2.05		Scan the B flange of A5	1	30JUL08	30JUL08		4		0.00										ZMET =20 ;
S25-2.07		Remove A5 move to holding area.	1	31JUL08	31JUL08		4		1,602.20										EM//TB =20hr ;
S25-3.02		Compress alumina shims sort by thickness	4	29SEP08	02OCT08		4		4,877.10										EM//TB =60hr ;
S25-4.02		Perform metrology set-up and checks	2	03OCT08	06OCT08		4		0.00										ZMET =40 ;
S25-4.03		Ready For Preassembly A5B5C5	0	07OCT08	06OCT08		4		0.00										
Pre measurement of MCHP A6,B6,C6 flanges																			
S26-2.08		Measure B2 "A" flange	14	16OCT08	04NOV08	1	4		3,298.40										EM//TB =40hr ; ZMET =220 ;
S26-2.11		Measure C2 "A" flange	13	05NOV08	21NOV08	1	4		3,298.40										EM//TB =40hr ; ZMET =220 ;
S26-2.14		Measure Type A1-A2 "A" flange	13	24NOV08	12DEC08	1	4		3,298.40										EM//TB =40hr ; ZMET =220 ;
S26-1.01		Verify mating MC's of MCHP will come together	4	07OCT08	10OCT08		4		6,596.80										EM//TB =80hr ;
S26-1.02		Epoxy paint all close fitting interfacing surfac	3	13OCT08	15OCT08		4		4,947.60										EM//TB =60hr ;
S26-3.02		Compress alumina shims sort by thickness	4	15DEC08	18DEC08		4		6,596.80										EM//TB =80hr ;
S26-4.02		Perform metrology set-up and checks	2	19DEC08	22DEC08		4		0.00										ZMET =40 ;
S26-4.03		Ready For Preassembly A6B6C6	0	23DEC08	22DEC08		4		0.00										
<b>Station 2-MC Sub Assy A1-B1-C1</b>																			
Pre-assemble A1-A2																			
S21-5.00		BEGIN A-A Pre-assembly	0		23OCT07	1	0		0.00										▼
S21-5.01		Place A2 "B" side down. Obtain fiducials	2	24OCT07	25OCT07	1	0		3,204.40										EM//TB =40hr ;
S21-5.02		Align to the conical seats locking into 8.	1	26OCT07	26OCT07	1	0		0.00										zmer=20
S21-5.03		Meas monuments on fixture & walls.	2	29OCT07	30OCT07	1	0		0.00										zmet=40
S21-5.04		Place shims on coil identical to A1-A2 fit up	1	31OCT07	31OCT07	1	0		801.10										EM//TB =10hr ;
S21-5.05		Install dial indicators on the MC to see deflec	1	01NOV07	01NOV07	1	0		3,204.40										EM//TB =40hr ;
S21-5.06		Lower mating A1 modular coil into position.	1	02NOV07	02NOV07	1	0		1,602.20										EM//TB =20hr ;
S21-5.07		Meas monuments bottom coil. Jack to .002"	1	05NOV07	05NOV07	1	0		1,602.20										EM//TB =20hr ;
S21-5.08		Using 3 points, position as was done inA1A2 fit	1	06NOV07	06NOV07	1	0		1,602.20										EM//TB =20hr ;

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year						
										FY07	FY08	FY09	FY10	FY11		
S21-5.09		Torque to 50%	2	07NOV07	08NOV07	1	0		3,204.40		EM//TB =40hr ;					
S21-5.1		Make "wiggle" test Tighten bolt and recheck.	1	09NOV07	09NOV07	1	0		1,602.20		EM//TB =20hr ;					
S21-5.11		Meas tooling balls both coils.	5	12NOV07	16NOV07	1	0		0.00		ZMET =100 ;					
S21-5.12		Adjust shims locally. Re-torque all studs to 50%	3	19NOV07	21NOV07	1	0		4,806.60		EM//TB =60hr ;					
S21-5.14		Install A-A locator bushings	2	22NOV07	23NOV07	1	0		3,204.40		EM//TB =40hr ;					
S21-5.15		Remove studs,nuts,shims. Identify shim locations	1	26NOV07	26NOV07	1	0		1,602.20		EM//TB =20hr ;					
<b>A-B Assembly</b>																
S21-6.01		Place Type A "A" side down. Obtain fiducials	2	27NOV07	28NOV07	1	0		3,204.40		EM//TB =40hr ;					
S21-6.02		Align to the conical seats locking into 8.	1	03DEC07	03DEC07	1	0		0.00		ZMET =20 ;					
S21-6.03		Meas monuments on fixture & walls.	2	04DEC07	05DEC07	1	0		0.00		ZMET =40 ;					
S21-6.04		Place the an initial set shims on coil	2	06DEC07	07DEC07	1	0		3,204.40		EM//TB =40hr ;					
S21-6.041		Stuff shim bag w/fiberglass & place on wing	1	10DEC07	10DEC07	1	0		400.55		EM//TB =05hr ;					
S21-6.05		Lower the Type-B coil onto the Type-A coil.	1	11DEC07	11DEC07	1	0		1,602.20		EM//TB =20hr ;					
S21-6.06		Measure monuments on A coil. Jack to .002"	1	12DEC07	12DEC07	1	0		1,602.20		EM//TB =20hr ;					
S21-6.061		instl dial indicators for x-y positioning	1	13DEC07	13DEC07	1	0		1,602.20		EM//TB =20hr ;					
S21-6.07		Perform the X-Y positioning of the B coil.	1	14DEC07	14DEC07	1	0		1,602.20		EM//TB =20hr ;					
S21-6.08		Install remaining metal shims torque to 50%	2	17DEC07	18DEC07	1	0		3,204.40		EM//TB =40hr ;					
S21-6.09		Make "wiggle" test Tighten bolt and recheck.	1	19DEC07	19DEC07	1	0		1,602.20		EM//TB =20hr ;					
S21-6.1		Measure the tooling balls on both coils.	5	20DEC07	04JAN08	1	0		0.00		ZMET =100 ;					
S21-6.11		Loosen studs, adjust shims. Re-torque to 50%.	3	07JAN08	09JAN08	1	0		4,806.60		EM//TB =60hr ;					
S21-6.12		Install alumina shims. Re-torque to 50%.	1	10JAN08	10JAN08	1	0		1,602.20		EM//TB =20hr ;					
S21-6.13		Make "wiggle" test Tighten bolt and recheck.	1	11JAN08	11JAN08	1	0		1,602.20		EM//TB =20hr ;					
S21-6.14		Measuretooling balls . The max devi .007" .	5	14JAN08	18JAN08	1	0		0.00		ZMET =100 ;					
S21-6.15		Loosen studs, adjust shims. Re-torque to 50%.	3	21JAN08	23JAN08	1	0		4,806.60		EM//TB =60hr ;					
S21-6.16		Install bushings. Tighten back to 50%	10	24JAN08	06FEB08	1	0		16,022.00		EM//TB =200hr ;					
S21-6.17		Complete tightening of flange bolts to 100%.	1	07FEB08	07FEB08	1	0		1,602.20		EM//TB =20hr ;					
S21-6.18		Measuretooling balls . The max devi .007" .	2	08FEB08	11FEB08	1	0		0.00		ZMET =40 ;					
S21-6.19		Scan the "B" flange of Type-B coil	1	12FEB08	12FEB08	1	0		1,602.20		EM//TB =20hr ;					
<b>AB - C Assembly</b>																
S21-7.01		Place "A/B" assy, "A" coil dwn, on 40deg fix.	3	13FEB08	15FEB08	1	0		4,806.60		EM//TB =60hr ;					
S21-7.02		Align to the conical seats locking into a min of	1	18FEB08	18FEB08	1	0		0.00		ZMET =20 ;					
S21-7.03		Measure the monuments on the fixture & the walls	2	19FEB08	20FEB08	1	0		0.00		ZMET =40 ;					
S21-7.04		Place initial set metal shims on the coil	2	21FEB08	22FEB08	1	0		3,204.40		EM//TB =40hr ;					
S21-7.05		Lower the Type-C coil onto the Type-B coil.	1	25FEB08	25FEB08	1	0		1,602.20		EM//TB =20hr ;					
S21-7.06		Meas monuments on A coil to eval displacement.	1	26FEB08	26FEB08	1	0		0.00		ZMET =20 ;					
S21-6.062		instl dial indicators for x-y positioning	1	27FEB08	27FEB08	1	0		1,602.20		EM//TB =20hr ;					
S21-7.07		Perform the X-Y positioning of the coil.	1	28FEB08	28FEB08	1	0		1,602.20		EM//TB =20hr ;					
S21-7.08		Install remaining metal shims torque to 50%	2	29FEB08	03MAR08	1	0		3,204.40		EM//TB =40hr ;					
S21-7.09		"wiggle" test Tighten bolt and recheck.	1	04MAR08	04MAR08	1	0		1,602.20		EM//TB =20hr ;					
S21-7.1		Measure the tooling balls on all coils.	5	05MAR08	11MAR08	1	0		0.00		ZMET =100 ;					
S21-7.11		adjust shims locally. Re-torque all studs to 50%	3	12MAR08	14MAR08	1	0		4,806.60		EM//TB =60hr ;					

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year						
										FY07	FY08	FY09	FY10	FY11		
S21-7.12		Install alumina shims. Re-torque all studs to	1	17MAR08	17MAR08	1	0		1,602.20		EM/TB =20hr ;					
S21-7.13		"wiggle" test Tighten bolt and recheck.	1	18MAR08	18MAR08	1	0		1,602.20		EM/TB =20hr ;					
S21-7.14		Measure the tooling balls on all coils.	5	19MAR08	25MAR08	1	0		8,011.00		EM/TB =100hr ;					
S21-7.15		adjust shims locally. Re-torque all studs to 50	3	26MAR08	28MAR08	1	0		4,806.60		EM/TB =60hr ;					
S21-7.16		Install bushings	10	31MAR08	11APR08	1	0		16,022.00		EM/TB =200hr ;					
S21-7.17		Complete tightening of flange bolts to 100%.	1	14APR08	14APR08	1	0		1,602.20		EM/TB =20hr ;					
S21-11.01		Identify primary fiducials for positioning Sta 3	1	15APR08	15APR08	1	0		1,602.20		EM/TB =20hr ;					
S21-7.18		Final metrology meas. Scan "B" flangeType-C coil	5	16APR08	22APR08	1	0		0.00		ZMET =100 ;					
<b>Tack Weld Inboard Welded Hims</b>																
S21-8.01		Tack weld inboard shims	2	23APR08	24APR08	1	0		3,204.40		EM/TB =40hr ;					
<b>Complete Local Service &amp; interface details</b>																
S21-10.01		Install all wing support bladders	2	25APR08	28APR08	1	6		3,204.40		EM/TB =40hr ;					
S21-10.02		Make local service runs/connections	8	25APR08	06MAY08	1	0		12,817.60		EM/TB =160hr ;					
S21-10.03		Inject stycast in all shim spaces	1	25APR08	25APR08	1	7		1,602.20		EM/TB =20hr ;					
<b>Final Measurements/Transfer to Holding Area</b>																
DOE-1		Notify DOE of scheduled station 3 lifts	0		27MAR08	1	0		0.00							
DOE-2		DOE review lift procedures	30	28MAR08	08MAY08	1	0		0.00							
DOE-3		DOE approval of scheduled station 3 lifts	0		08MAY08	1	0		0.00							
S21-11.03		Measure bolt length on all tension fasteners	0	09MAY08	08MAY08	1	0		0.00		EM/TB =00hr ;					
S21-11.04		Mark part for identification	0	09MAY08	08MAY08	1	0		0.00		EM/TB =00hr ;					
S21-11.05		Install lift support beams	2	07MAY08	08MAY08	1	0		3,204.40		EM/TB =40hr ;					
S21-11.06		Remove from stand & measure weight of assy	1	09MAY08	09MAY08	1	0		1,602.20		EM/TB =20hr ;					
S21-11.07	2	Move A1-B1-C1 to holding area.	0	12MAY08	09MAY08	1	0		0.00		EM/TB =00hr ;					
<b>Station 2 MC Sub Assy A2-B2-C2</b>																
<b>A-B Assembly</b>																
S22-6.01		A2 "A" flange dwn, 20deg fixt.Obtain fiduci	1	13FEB08	13FEB08	1	4		1,602.20		EM/TB =20hr ;					
S22-6.02		Align to the conical seats locking into a min of	1	14FEB08	14FEB08	1	4		0.00		ZMET =20 ;					
S22-6.03		Measure monuments on fixture and on the walls.	2	15FEB08	18FEB08	1	4		0.00		ZMET =40 ;					
S22-6.04		Place alumina grind inboard weld shims on coil.	2	19FEB08	20FEB08	1	4		3,204.40		EM/TB =40hr ;					
S22-6.05		Lower the Type-B coil onto the Type-A coil.	1	21FEB08	21FEB08	1	4		1,602.20		EM/TB =20hr ;					
S22-6.06		Meas monuments on A coil. Jack to within .002"	1	22FEB08	22FEB08	1	4		0.00		ZMET =20 ;					
S22-6.07		Perform the X-Y positioning of the B coil.	1	25FEB08	25FEB08	1	4		0.00		zmet=20					
S22-6.08		Install studs, supernuts, torque to 50% of final	2	26FEB08	27FEB08	1	4		3,204.40		EM/TB =40hr ;					
S22-6.09		"wiggle" test Tighten bolt and recheck.	1	28FEB08	28FEB08	1	4		1,602.20		EM/TB =20hr ;					
S22-6.1		Meas tooling balls on both coils. max devi .007"	5	29FEB08	06MAR08	1	4		0.00		ZMET =100 ;					
S22-6.11		adjust shims locally. Re-torque all studs to 50%	3	07MAR08	11MAR08	1	4		4,806.60		EM/TB =60hr ;					
S22-6.12		Install bushings	10	12MAR08	25MAR08	1	4		16,022.00		EM/TB =200hr ;					
S22-6.13		Complete tightening of flange bolts to 100%.	1	26MAR08	26MAR08	1	4		1,602.20		EM/TB =20hr ;					
S22-6.14		Measure the tooling balls on both coils.	3	27MAR08	31MAR08	1	4		0.00		ZMET =60 ;					
S22-6.15		Scan the "B" flange of Type-B coil	1	01APR08	01APR08	1	4		1,602.20		EM/TB =20hr ;					
<b>AB - C Assembly</b>																
S22-7.01		"A/B" assy "A" coil dwn, 40deg fixt.Obtain fiduc	2	02APR08	03APR08	1	4		3,204.40		EM/TB =40hr ;					

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year							
										FY07	FY08	FY09	FY10	FY11			
S22-7.02		Align to the conical seats locking into min of 8	1	04APR08	04APR08	1	4		0.00			ZMET =20 ;					
S22-7.03		Measure monuments on fixture and walls.	2	07APR08	08APR08	1	4		0.00			ZMET =40 ;					
S22-7.04		Place alumin grind inboard weld shims on coil.	2	09APR08	10APR08	1	4		3,204.40			EM//TB =40hr ;					
S22-7.05		Lower the Type-C coil onto the Type-B coil.	1	11APR08	11APR08	1	4		1,602.20			EM//TB =20hr ;					
S22-7.06		Meas monuments on A coil for displacements.	1	14APR08	14APR08	1	4		0.00			ZMET =20 ;					
S22-7.07		Perform the X-Y positioning of the coil.	1	15APR08	15APR08	1	4		1,602.20			EM//TB =20hr ;					
S22-7.08		Install studs, supernuts, torque to 50% of fina	2	16APR08	17APR08	1	4		3,204.40			EM//TB =40hr ;					
S22-7.09		"wiggle" test Tighten bolt and recheck.	1	18APR08	18APR08	1	4		1,602.20			EM//TB =20hr ;					
S22-7.1		Measure the tooling balls on all coils.	5	21APR08	25APR08	1	4		0.00			ZMET =100 ;					
S22-7.11		Install bushings Replace nut and tighten to 50%	10	28APR08	09MAY08	1	4		16,022.00			EM//TB =200hr ;					
S22-7.12		Complete tightening of flange bolts to 100%.	1	12MAY08	12MAY08	1	4		1,602.20			EM//TB =20hr ;					
S22-7.13		Measure the tooling balls on both coils.	4	13MAY08	16MAY08	1	4		0.00			ZMET =80 ;					
<b>Tack Weld Inboard Welded hims</b>																	
S22-8.01		Tack weld all inboard shims to one flange	1	19MAY08	19MAY08	1	4		1,602.20			EM//TB =20hr ;					
<b>Complete Local Service &amp; interface details</b>																	
S22-10.01		Install all wing support bladders	2	20MAY08	21MAY08	1	4		3,204.40			EM//TB =40hr ;					
S22-10.02		local service connections on each MC.	8	22MAY08	03JUN08	1	4		12,817.60			EM//TB =160hr ;					
S22-10.03		Inject stycast to fill in all shim spaces	1	04JUN08	04JUN08	1	4		1,602.20			EM//TB =20hr ;					
<b>Final Measurements/Transfer to Holding Area</b>																	
S22-11.01		Install or identify three primary fiducials	1	05JUN08	05JUN08	1	4		1,602.20			EM//TB =20hr ;					
S22-11.02		Final metrology measurement of all fiducials.	5	06JUN08	12JUN08	1	4		0.00			ZMET =100 ;					
S22-11.03		Tension tester measure bolt length	1	13JUN08	13JUN08	1	4		801.10			EM//TB =10hr ;					
S22-11.04		Mark part for identification	0	16JUN08	13JUN08	1	4		0.00			EM//TB =00hr ;					
S22-11.05		Install lift support beams	2	16JUN08	17JUN08	1	4		3,204.40			EM//TB =40hr ;					
S22-11.06	3	Remove from stand Move A2-B2-C2 to holding area	2	18JUN08	19JUN08	1	4		3,204.40			EM//TB =40hr ;					
<b>Station 2-Modular Coil Subassembly-FP#2</b>																	
S23-A3B3C3		Assemble/Align Mod-Coils A3/B3/C3	140	12MAY08	26NOV08	1	0		171,696.21			EM//TB =2,125hr ; ZMET =740 ;					
S24-A4B4C4		Assemble/Align Mod-Coils A4/B4/C4	97	03JUL08	18NOV08	1	16		108,078.85			EM//TB =1335hr ; ZMET =620 ;					
<b>Station 2-Modular Coil Subassembly-FP#3</b>																	
S25-A5B5C5		Assemble/Align Mod-Coils A5/B5/C5 (under 1 shift)	86	07OCT08*	16FEB09	1	5		125,174.28			EM//TB =1518hr ; ZMET =528 ;					
S25A5B5C52		Assemble/Align Mod-Coils A5/B5/C5 (under 2 shift)	20	17FEB09*	16MAR09	2	5		50,053.22			EM//TB =607hr ; ZMET =212 ;					
S26-A6B6C6		Assemble/Align Mod-Coils A6/B6/C6	36	23DEC08*	19FEB09	1	4		56,732.48			EM//TB =688hr ; ZMET =320 ;					
S26A6B6C62		Assemble/Align Mod-Coils A6/B6/C6	24	20FEB09*	25MAR09	2	4		53,351.62			EM//TB =647hr ; ZMET =300 ;					
<b>Station 3 Setup/Preparations/General</b>																	
R1810-3102		Misc M&S	65	03APR08*	03JUL08	1	1,060		6,540.00			41=05\$K ;					
R1810-3104		Procure 3 legged actuator system	20	01OCT07*	26OCT07	1	134		56,244.00			41=43\$K ;					
R1810-3106		Load test 3 ledged actuator system	3	29OCT07	31OCT07	1	134		7,690.56			EM//TB =96hr ;					
R1810-3108		Procure ,Fabricate 3 legged actuator lift fixtur	20	01OCT07*	26OCT07	1	129		7,848.00			41=06\$K ;					
R1810-3112		Load Test 3 legged actuator lift fixtur	8	29OCT07	07NOV07	1	129		10,254.08			EM//TB =128hr ;					
R1810-3150		Fab New legs	4	01OCT07*	04OCT07	1	143		5,127.04			EM//TB =64hr ;					

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year						
										FY07	FY08	FY09	FY10	FY11		
R1810-3103		Install station 3 platforms (8 required)	4	20NOV07	23NOV07	1	111		22,052.32							
R1810-3107		Test out station 3 equipment and procedures	4	26NOV07	03DEC07	1	111		13,080.00							
R1810-3109		Begin assy of first field period assy	2	04DEC07	05DEC07	1	111		52,320.00							
<b>Station 3-Assemble Mod Coils and VVSA-FP#1</b>																
R1810-2109		Begin Station 3	0	03MAR08*		1	56		0.00							
S31-1.01		Install Station 3 site monuments	3	03MAR08	05MAR08	1	56		7,422.60							
S31-1.02		Install floor mounted tracks and VV base support	5	06MAR08	12MAR08	1	56		9,319.00							
S31-1.03		Establish the MCHP CG location.	2	13MAR08	14MAR08	1	56		3,204.40							
S31-2.01		Install MCHP support cart assemblies	4	17MAR08	20MAR08	1	56		6,408.80							
S31-2.02		Verify cart motion.	2	21MAR08	24MAR08	1	56		3,204.40							
S31-2.03		Install adjustor bar support weldment	0	25MAR08	24MAR08	1	56		0.00							
S31-2.04		Position left MCHP on the cart assembly	1	12MAY08	12MAY08	1	22		1,602.20							
S31-2.05		Secure left MCHP on support cart base.	2	13MAY08	14MAY08	1	22		3,204.40							
S31-2.06		Measure monuments on left MCHP and walls	5	15MAY08	21MAY08	1	22		0.00							
S31-2.07		Set positioning stop on the cart	1	22MAY08	22MAY08	1	22		1,602.20							
S31-3.01		Move right base support cart to its final position	1	23MAY08	23MAY08	1	22		801.10							
S31-3.02		Lift the right side MCHP and position	1	20JUN08	20JUN08	1	4		1,602.20							
S31-3.03		Temporary fasteners bring the parts together.	0	23JUN08	20JUN08	1	4		0.00							
S31-3.04		AirLoc Wedgemount leveler to take load.	0	23JUN08	20JUN08	1	4		0.00							
S31-3.05		Install temp scaffolding to install flange hw	1	23JUN08	23JUN08	1	4		1,602.20							
S31-3.06		Install bolts and shims	1	24JUN08	24JUN08	1	4		1,602.20							
S31-3.07		Tighten flange fasteners to 50%	1	25JUN08	25JUN08	1	4		1,602.20							
S31-3.08		Perform metrology measurements	5	26JUN08	02JUL08	1	4		0.00							
S31-3.09		Perform position adjust on right side MCHP	2	03JUL08	07JUL08	1	4		3,204.40							
S31-3.1		Verify position of the VV support hanger	3	08JUL08	10JUL08	1	4		0.00							
S31-3.11		Remove flange hardware and temp platforms	1	11JUL08	11JUL08	1	4		1,602.20							
S31-4.01		Measure monuments on the MCHP's & walls.	2	14JUL08	15JUL08	1	4		2,616.00							
S31-4.02		Place all of the laser screens	2	16JUL08	17JUL08	1	4		3,204.40							
S31-4.03		Determine laser alignment.	1	18JUL08	18JUL08	1	4		1,602.20							
S31-4.04		mount the milar on the screens.	1	21JUL08	21JUL08	1	4		0.00							
S31-4.05		Disengage MCHP's to move the left MCHP.	1	22JUL08	22JUL08	1	4		1,602.20							
S31-4.06		Remove both MCHP's.	2	23JUL08	24JUL08	1	4		3,204.40							
S31-5.01		Remove the adjustor bar support from left side.	0	25JUL08	24JUL08	1	4		0.00							
S31-5.02		Install VV NBI port support stand.	2	25JUL08	28JUL08	1	4		3,204.40							
S31-5.03		Install VVSA to base support	1	29JUL08	29JUL08	1	4		1,602.20							
S31-5.04		Secure the VVSA to base & NBI port sprt stand.	2	30JUL08	31JUL08	1	4		3,204.40							
S31-6.01		Install bumper protection components on the VV	1	01AUG08	01AUG08	1	4		801.10							
S31-6.02		Position AirLoc Wedgemount in lower position.	0	04AUG08	01AUG08	1	4		0.00							
S31-6.03		move the left MCHP over the VV.	2	04AUG08	05AUG08	1	4		3,204.40							
S31-6.04		Re-install the left adjustor bar.	0	06AUG08	05AUG08	1	4		0.00							



EM/TB =112hr ; 41=10\$k ;  
EM/TB =80hr ; 41=10\$k ;  
EM/TB =40

41=02\$k ; EM/TB =60hr ;  
41=01\$k ; EM/TB =100hr ;  
EM/TB =40hr ;  
EM/TB =80hr ;  
EM/TB =40hr ;  
EM/TB =00hr ;  
EM/TB =20hr ;  
EM/TB =40hr ;  
EM/TB =00hr ; ZMET =100 ;  
EM/TB =20hr ;  
EM/TB =10hr ;  
EM/TB =20hr ;  
EM/TB =00hr ;  
EM/TB =00hr ;  
EM/TB =20hr ;  
EM/TB =20hr ;  
EM/TB =20hr ;  
EM/TB =00hr ; ZMET =100 ;  
EM/TB =40hr ;  
EM/TB =00hr ; ZMET =60 ;  
EM/TB =20hr ;  
EM/TB =00hr ; ZMET =40 ; 41=2k  
EM/TB =40hr ;  
EM/TB =20hr ;  
EM/TB =00hr ;  
EM/TB =20hr ;  
EM/TB =40hr ;  
EM/TB =20hr ;  
EM/TB =40hr ;  
EM/TB =10hr ;  
EM/TB =00hr ;  
EM/TB =40hr ;  
EM/TB =00hr ;



Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmpmt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
S31-6.05		Make adjustments to properly align MCHP.	2	06AUG08	07AUG08	1	4		3,204.40						
S31-6.06		Transfer load to the AirLoc Wedgemount leveler.	0	08AUG08	07AUG08	1	4		0.00						
S31-6.07		move the MCHP to the left 1/2".	0	08AUG08	07AUG08	1	4		0.00						
S31-7.01		Position AirLoc Wedgemount lowered position.	0	08AUG08	07AUG08	1	4		0.00						
S31-7.02		move the right MCHP over the VV	2	08AUG08	11AUG08	1	4		3,204.40						
S31-7.03		move the left MCHP to its final position.	1	12AUG08	12AUG08	1	4		801.10						
S31-7.04		engage the preinstalled Type-A flange bushings.	1	13AUG08	13AUG08	1	4		801.10						
S31-7.05		Temporary fasteners bring the parts together.	0	14AUG08	13AUG08	1	4		0.00						
S31-7.06		AirLoc Wedgemount leveler up to take the load.	1	14AUG08	14AUG08	1	4		801.10						
S31-7.07		Remove laser screens	0	15AUG08	14AUG08	1	4		0.00						
S31-7.08		Install temp scaffolding to install flange hw	4	15AUG08	20AUG08	1	4		6,408.80						
S31-7.09		Install bolts, alumina and inboard weld shims.	2	21AUG08	22AUG08	1	4		3,204.40						
S31-7.1		Tighten flange fasteners to 50%	1	25AUG08	25AUG08	1	4		1,602.20						
S31-7.11		"wiggle" test Tighten bolt and recheck.	1	26AUG08	26AUG08	1	4		1,602.20						
S31-7.12		Perform metrology measurements	5	27AUG08	03SEP08	1	4		0.00						
S31-7.13		Perform position adjustments right side MCHP	3	04SEP08	08SEP08	1	4		4,806.60						
S31-7.14		Remove SISCO actuator from right MCHP.	0	09SEP08	08SEP08	1	4		0.00						
S31-7.15		Pre-fit & install bushings	10	28AUG08	11SEP08	1	4		16,022.00						
S31-7.16		Tighten nuts 100%. & Measure	1	12SEP08	12SEP08	1	4		1,602.20						
S31-8.01		partially weld the inboard shim.	15	15SEP08	03OCT08	1	4		24,174.00						
S31-8.02		Final complete MC scan verify period alignment.	5	06OCT08	10OCT08	1	4		0.00						
S31-9.01		Attach VV permanent vertical supports	2	13OCT08	14OCT08	1	4		3,298.40						
S31-9.02		Attach temporary VV vertical supports	1	15OCT08	15OCT08	1	4		1,649.20						
S31-9.03		Transfer load to vertical supports.	1	16OCT08	16OCT08	1	4		1,649.20						
S31-9.04		Install VV lateral supports and align	4	17OCT08	22OCT08	1	4		6,596.80						
S31-9.05		Prepare VVSA for transport.	2	23OCT08	24OCT08	1	4		3,298.40						
S31-10.01		transfer the unit to the transfer support frame	2	27OCT08	28OCT08	1	4		6,596.80						
S31-10.02	2	Transfer Period 1 to Station 5 in NCSX TC	1	29OCT08	29OCT08	1	4		3,298.40						
<b>Station 3-Assemble Mod Coils and VVSA-FP#2</b>															
S32-1.01		Install Station 3 site monuments	3	30OCT08	03NOV08	1	4		7,741.60						
S32-1.02		Install floor mounted tracks and VV base support	5	04NOV08	10NOV08	1	4		9,643.00						
S32-1.03		Establish the MCHP CG location.	2	11NOV08	12NOV08	1	4		3,298.40						
S32-2.01		Install MCHP support cart assemblies	4	13NOV08	18NOV08	1	4		6,596.80						
S32-2.02		Verify cart motion.	2	19NOV08	20NOV08	1	4		3,298.40						
S32-2.03		Install adjustor bar support weldment	0	21NOV08	20NOV08	1	4		0.00						
S32-2.04		Position left MCHP on the cart assembly	1	01DEC08	01DEC08	1	0		1,649.20						
S32-2.05		Secure left MCHP on support cart base.	2	02DEC08	03DEC08	1	0		3,298.40						
S32-2.06		Measure monuments on left MCHP and walls	5	04DEC08	10DEC08	1	0		0.00						
S32-2.07		Set positioning stop on the cart	1	11DEC08	11DEC08	1	0		1,649.20						
S32-3.01		Move right base support cart to its final positi	1	12DEC08	12DEC08	1	0		824.60						

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year				
										FY07	FY08	FY09	FY10	FY11
S32-3.02		Lift the right side MCHP and position	1	15DEC08	15DEC08	1	0		1,649.20			LEM//TB =20hr ;		
S32-3.03		Temporary fasteners bring the parts together.	0	16DEC08	15DEC08	1	0		0.00			LEM//TB =00hr ;		
S32-3.04		AirLoc Wedgemount leveler to take load.	0	16DEC08	15DEC08	1	0		0.00			LEM//TB =00hr ;		
S32-3.05		Install temp scaffolding to install flange hw	1	16DEC08	16DEC08	1	0		1,649.20			LEM//TB =20hr ;		
S32-3.06		Install bolts and shims	1	17DEC08	17DEC08	1	0		1,649.20			LEM//TB =20hr ;		
S32-3.07		Tighten flange fasteners to 50%	1	18DEC08	18DEC08	1	0		1,649.20			LEM//TB =20hr ;		
S32-3.08		Perform metrology measurements	5	19DEC08	05JAN09	1	0		0.00			LEM//TB =00hr ; ZMET =100 ;		
S32-3.09		Perform position adjust on right side MCHP	2	06JAN09	07JAN09	1	0		3,298.40			LEM//TB =40hr ;		
S32-3.1		Verify position of the VV support hanger	3	08JAN09	12JAN09	1	0		0.00			LEM//TB =00hr ; ZMET =60 ;		
S32-3.11		Remove flange hardware and temp platforms	1	13JAN09	13JAN09	1	0		1,649.20			LEM//TB =20hr ;		
S32-4.01		EMeasure monuments on the MCHP's & walls.	2	14JAN09	15JAN09	1	0		2,794.00			LEM//TB =00hr ; ZMET =40 ; :41=2k		
S32-4.02		Place all of the laser screens	2	16JAN09	19JAN09	1	0		3,298.40			LEM//TB =40hr ;		
S32-4.03		Determine laser alignment.	1	20JAN09	20JAN09	1	0		1,649.20			LEM//TB =20hr ;		
S32-4.04		mount the milar on the screens.	1	21JAN09	21JAN09	1	0		0.00			LEM//TB =00hr ;		
S32-4.05		Disengage MCHP's to move the left MCHP.	1	22JAN09	22JAN09	1	0		1,649.20			LEM//TB =20hr ;		
S32-4.06		Remove both MCHP's.	2	23JAN09	26JAN09	1	0		3,298.40			LEM//TB =40hr ;		
S32-5.01		Remove the adjustor bar support from left side.	0	27JAN09	26JAN09	1	0		0.00			LEM//TB =00hr ;		
S32-5.02		Install VV NBI port support stand.	2	27JAN09	28JAN09	1	0		3,298.40			LEM//TB =40hr ;		
S32-5.03		Install VVSA to base support	1	29JAN09	29JAN09	1	0		1,649.20			LEM//TB =20hr ;		
S32-5.04		Secure the VVSA to base & NBI port sprt stand.	1	30JAN09	30JAN09	2	0		3,298.40			LEM//TB =40hr ;		
S32-6.01		Install bumper protection components on the VV	1	30JAN09	30JAN09	2	0		824.60			LEM//TB =10hr ;		
S32-6.02		Position AirLoc Wedgemount in lower position.	0	02FEB09	30JAN09	2	0		0.00			LEM//TB =00hr ;		
S32-6.03		move the left MCHP over the VV.	1	02FEB09	02FEB09	2	0		3,298.40			LEM//TB =40hr ;		
S32-6.04		Re-install the left adjustor bar.	0	03FEB09	02FEB09	2	0		0.00			LEM//TB =00hr ;		
S32-6.05		Make adjustments to properly align MCHP.	1	03FEB09	03FEB09	2	0		3,298.40			LEM//TB =40hr ;		
S32-6.06		Transfer load to the AirLoc Wedgemount leveler.	0	04FEB09	03FEB09	2	0		0.00			LEM//TB =00hr ;		
S32-6.07		move the MCHP to the left 1/2".	0	04FEB09	03FEB09	2	0		0.00			LEM//TB =00hr ;		
S32-7.01		Position AirLoc Wedgemount lowered position.	0	04FEB09	03FEB09	2	0		0.00			LEM//TB =00hr ;		
S32-7.02		move the right MCHP over the VV	1	04FEB09	04FEB09	2	0		3,298.40			LEM//TB =40hr ;		
S32-7.03		move the left MCHP to its final position.	1	04FEB09	04FEB09	2	0		824.60			LEM//TB =10hr ;		
S32-7.04		engage the preinstalled Type-A flange bushings.	1	04FEB09	04FEB09	2	0		824.60			LEM//TB =10hr ;		
S32-7.05		Temporary fasteners bring the parts together.	0	05FEB09	04FEB09	2	0		0.00			LEM//TB =00hr ;		
S32-7.06		AirLoc Wedgemount leveler up to take the load.	1	05FEB09	05FEB09	2	0		824.60			LEM//TB =10hr ;		
S32-7.07		Remove laser screens	0	06FEB09	05FEB09	2	0		0.00			LEM//TB =00hr ;		
S32-7.08		Install temp scaffolding to install flange hw	2	06FEB09	09FEB09	2	0		6,596.80			LEM//TB =80hr ;		
S32-7.09		Install bolts, alumina and inboard weld shims.	1	10FEB09	10FEB09	2	0		3,298.40			LEM//TB =40hr ;		
S32-7.1		Tighten flange fasteners to 50%	1	11FEB09	11FEB09	2	0		1,649.20			LEM//TB =20hr ;		
S32-7.11		"wiggle" test Tighten bolt and recheck.	1	11FEB09	11FEB09	2	0		1,649.20			LEM//TB =20hr ;		
S32-7.12		Perform metrology measurements	2	12FEB09	13FEB09	2	0		0.00			LEM//TB =00hr ; ZMET =100 ;		
S32-7.13		Perform position adjustments right side MCHP	2	16FEB09	17FEB09	2	0		4,947.60			LEM//TB =60hr ;		
S32-7.14		Remove SISSCO actuator from right MCHP.	0	18FEB09	17FEB09	2	0		0.00			LEM//TB =00hr ;		

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
S32-7.15		Pre-fit & Install bushings	5	12FEB09	18FEB09	2	0		16,492.00						
S32-7.16		Tighten nuts 100%. & Measure	1	19FEB09	19FEB09	2	0		1,649.20						
S32-8.01		partially weld the inboard shim.	4	20FEB09	25FEB09	2	0		24,738.00						
S32-8.02		Final complete MC scan verify period alignment.	2	26FEB09	27FEB09	2	0		0.00						
S32-9.01		Attach VV permanent vertical supports	1	02MAR09	02MAR09	2	0		3,298.40						
S32-9.02		Attach temporary VV vertical supports	1	03MAR09	03MAR09	2	0		1,649.20						
S32-9.03		Transfer load to vertical supports.	1	04MAR09	04MAR09	2	0		1,649.20						
S32-9.04		Install VV lateral supports and align	2	05MAR09	06MAR09	2	0		6,596.80						
S32-9.05		Prepare VVSA for transport.	1	09MAR09	09MAR09	2	0		3,298.40						
S32-10.01		transfer the unit to the transfer support frame	1	10MAR09	10MAR09	2	0		6,596.80						
S32-10.02	2	Transfer Period 2 to Station 5 in NCSX TC	1	11MAR09	11MAR09	2	0		3,298.40						
<b>Station 3-Assemble Mod Coils and VVSA-FP#3</b>															
S33-1.01		Install Station 3 site monuments	2	12MAR09	13MAR09	2	0		7,741.60						
S33-1.02		Install floor mounted tracks and VV base support	2	16MAR09	17MAR09	2	0		9,643.00						
S33-1.03		Establish the MCHP CG location.	1	18MAR09	18MAR09	2	0		3,298.40						
S33-2.01		Install MCHP support cart assemblies	2	19MAR09	20MAR09	2	0		6,596.80						
S33-2.02		Verify cart motion.	1	23MAR09	23MAR09	2	0		3,298.40						
S33-2.03		Install adjustor bar support weldment	0	24MAR09	23MAR09	2	0		0.00						
S33-2.04		Position left MCHP on the cart assembly	1	24MAR09	24MAR09	2	0		1,649.20						
S33-2.05		Secure left MCHP on support cart base.	1	25MAR09	25MAR09	2	0		3,298.40						
S33-2.06		Measure monuments on left MCHP and walls	2	26MAR09	27MAR09	2	0		0.00						
S33-2.07		Set positioning stop on the cart	1	30MAR09	30MAR09	2	0		1,649.20						
S33-3.01		Move right base support cart to its final positi	1	31MAR09	31MAR09	2	0		824.60						
S33-3.02		Lift the right side MCHP and position	1	01APR09	01APR09	2	0		2,473.80						
S33-3.03		Temporary fasteners bring the parts together.	0	02APR09	01APR09	2	0		0.00						
S33-3.04		AirLoc Wedgemount leveler to take load.	0	02APR09	01APR09	2	0		0.00						
S33-3.05		Install temp scaffolding to install flange hw	1	02APR09	02APR09	2	0		1,649.20						
S33-3.06		Install bolts and shims	1	02APR09	02APR09	2	0		1,649.20						
S33-3.07		Tighten flange fasteners to 50%	1	03APR09	03APR09	2	0		1,649.20						
S33-3.08		Perform metrology measurements	2	06APR09	07APR09	2	0		0.00						
S33-3.09		Perform position adjust on right side MCHP	1	08APR09	08APR09	2	0		3,298.40						
S33-3.1		Verify position of the VV support hanger	2	09APR09	10APR09	2	0		0.00						
S33-3.11		Remove flange hardware and temp platforms	2	09APR09	10APR09	2	0		1,649.20						
S33-4.01		EMeasure monuments on the MCHP's & walls.	1	13APR09	13APR09	2	0		2,794.00						
S33-4.02		Place all of the laser screens	1	14APR09	14APR09	2	0		3,298.40						
S33-4.03		Determine laser alignment.	1	15APR09	15APR09	2	0		1,649.20						
S33-4.04		mount the milar on the screens.	0	16APR09	15APR09	2	0		0.00						
S33-4.05		Disengage MCHP's to move the left MCHP.	1	16APR09	16APR09	2	0		1,649.20						
S33-4.06		Remove both MCHP's.	1	17APR09	17APR09	2	0		3,298.40						
S33-5.01		Remove the adjustor bar support from left side.	0	20APR09	17APR09	2	0		0.00						

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
S33-5.02		Install VV NBI port support stand.	1	20APR09	20APR09	2	0		3,298.40						EM/TB =40hr ;
S33-5.03		Install VVSA to base support	1	21APR09	21APR09	2	0		1,649.20						EM/TB =20hr ;
S33-5.04		Secure the VVSA to base & NBI port sprt stand.	1	22APR09	22APR09	2	0		3,298.40						EM/TB =40hr ;
S33-6.01		Install bumper protection components on the VV	1	23APR09	23APR09	2	0		824.60						EM/TB =100hr ;
S33-6.02		Position AirLoc Wedgemount in lower position.	0	24APR09	23APR09	2	0		0.00						EM/TB =00hr ;
S33-6.03		move the left MCHP over the VV.	1	24APR09	24APR09	2	0		4,123.00						EM/TB =50hr ;
S33-6.04		Re-install the left adjustor bar.	0	27APR09	24APR09	2	0		0.00						EM/TB =00hr ;
S33-6.05		Make adjustments to properly align MCHP.	1	27APR09	27APR09	2	0		3,298.40						EM/TB =40hr ;
S33-6.06		Transfer load to the AirLoc Wedgemount leveler.	0	28APR09	27APR09	2	0		0.00						EM/TB =00hr ;
S33-6.07		move the MCHP to the left 1/2".	0	28APR09	27APR09	2	0		0.00						EM/TB =00hr ;
S33-7.01		Position AirLoc Wedgemount lowered position.	0	28APR09	27APR09	2	0		0.00						EM/TB =00hr ;
S33-7.02		move the right MCHP over the VV	1	28APR09	28APR09	2	0		3,298.40						EM/TB =40hr ;
S33-7.03		move the left MCHP to its final position.	1	28APR09	28APR09	2	0		824.60						EM/TB =10hr ;
S33-7.04		engage the preinstalled Type-A flange bushings.	1	29APR09	29APR09	2	0		824.60						EM/TB =10hr ;
S33-7.05		Temporary fasteners bring the parts together.	0	30APR09	29APR09	2	0		0.00						EM/TB =00hr ;
S33-7.06		AirLoc Wedgemount leveler up to take the load.	1	30APR09	30APR09	2	0		824.60						EM/TB =100hr ;
S33-7.07		Remove laser screens	0	01MAY09	30APR09	2	0		0.00						EM/TB =00hr ;
S33-7.08		Install temp scaffolding to install flange hw	2	29APR09	30APR09	2	0		6,596.80						EM/TB =80hr ;
S33-7.09		Install bolts, alumina and inboard weld shims.	1	01MAY09	01MAY09	2	0		3,298.40						EM/TB =40hr ;
S33-7.1		Tighten flange fasteners to 50%	1	04MAY09	04MAY09	2	0		1,649.20						EM/TB =20hr ;
S33-7.11		"wiggle" test Tighten bolt and recheck.	1	05MAY09	05MAY09	2	0		1,649.20						EM/TB =20hr ;
S33-7.12		Perform metrology measurements	2	06MAY09	07MAY09	2	0		0.00						EM/TB =00hr ; ZMET =100 ;
S33-7.13		Perform position adjustments right side MCHP	2	08MAY09	11MAY09	2	0		4,947.60						EM/TB =60hr ;
S33-7.14		Remove SISSCO actuator from right MCHP.	0	12MAY09	11MAY09	2	0		0.00						EM/TB =00hr ;
S33-7.15		Pre-fit & Install bushing.	5	06MAY09	12MAY09	2	0		16,492.00						EM/TB =200hr ;
S33-7.16		Tighten nuts 100%. & Measure	1	13MAY09	13MAY09	2	0		1,649.20						EM/TB =20hr ;
S33-8.01		partially weld the inboard shim.	7	14MAY09	22MAY09	2	0		24,738.00						EM/TB =300hr ;
S33-8.02		Final complete MC scan verify period alignment.	3	26MAY09	28MAY09	2	0		0.00						EM/TB =00hr ; ZMET =100 ;
S33-9.01		Attach VV permanent vertical supports	1	29MAY09	29MAY09	2	0		3,298.40						EM/TB =40hr ;
S33-9.02		Attach temporary VV vertical supports	1	01JUN09	01JUN09	2	0		1,649.20						EM/TB =20hr ;
S33-9.03		Transfer load to vertical supports.	1	02JUN09	02JUN09	2	0		1,649.20						EM/TB =20hr ;
S33-9.04		Install VV lateral supports and align	1	03JUN09	03JUN09	2	0		6,596.80						EM/TB =80hr ;
S33-9.05		Prepare VVSA for transport.	1	04JUN09	04JUN09	2	0		3,298.40						EM/TB =40hr ;
S33-10.01		transfer the unit to the transfer support frame	1	05JUN09	05JUN09	2	0		6,596.80						EM/TB =80hr ;
S33-10.02	2	Transfer Period 3 to Station 5 in NCSX TC	1	08JUN09	08JUN09	2	0		3,298.40						EM/TB =40hr ;
<b>Job: 1815 - Field Period Assy -Station 5-VIOLA</b>															
<b>Setup/Preparations/General</b>															
R1810-5101		MTM NCR hardware re-purchase	25	01JUL08*	05AUG08	1	42		54,936.00						41=42\$K ;
R1810-5102		Monuments,reflectors,CCR's	10	01JUL08*	15JUL08	1	47		67,689.00						41=51.75\$K ;
R1810-5103		metrology network in NCSX TC	10	16JUL08	29JUL08	1	47		21,973.60						EM/TB =160hr ; 41=07\$K ;

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
R1810-5104		Misc for tooling	10	25AUG08*	08SEP08	1	42		0.00						
R1810-5112		Weld wire & welding supplies	25	01JUL08*	05AUG08	1	42		19,620.00						
R1810-5106		Testout Sta 5 equipt & procedures	5	06AUG08	12AUG08	1	42		12,817.60						
R1810-5107		Check 3 sled interfaces adjust holes	12	13AUG08	28AUG08	1	42		30,762.24						
R1810-5108		Fixtures installed-final metrology	6	29AUG08	08SEP08	1	42		15,381.12						
<b>Station 5- Final FP Assy -FP#1 (in NCSX TC)</b>															
R1810-5109		Begin Station 5 Operations	0		29OCT08	1	5		0.00						
S51-1.01		cut off short dome	2	30OCT08	31OCT08	1	5		3,298.40						
S51-1.02		Install insulation system around all ports.	0	03NOV08	31OCT08	1	5		0.00						
S51-1.03		Install heat tape and theomocouples on all ports	0	03NOV08	31OCT08	1	5		0.00						
S51-2.01		Install period support fixture	2	03NOV08	04NOV08	1	5		3,298.40						
S51-2.02		Install FPA on support stand.	2	05NOV08	06NOV08	1	5		3,298.40						
S51-2.03		Install external working platforms	4	07NOV08	12NOV08	1	5		6,596.80						
S51-2.04		Install internal VV working platforms	3	13NOV08	17NOV08	1	5		4,947.60						
S51-3.01		Install the domes (left and right side),	2	18NOV08	19NOV08	1	5		3,298.40						
S51-3.02		Install small dome ports remaining circ ports.	30	20NOV08	13JAN09	1	5		49,476.00						
S51-3.03		Leak check each port after it is welded.	30	15DEC08	03FEB09	1	5		49,476.00						
S51-4.01		Install boots on ports except for the two port	16	23JAN09	13FEB09	1	5		26,387.20						
S51-5.01		Install MC lead connections to MC's (in job 7503	0	16FEB09	13FEB09	1	5		0.00						
S51-5.02		Install MC coolant lines on each MC	6	16FEB09	23FEB09	2	5		19,790.40						
S51-5.03		Platforms may need to be altered	2	24FEB09	25FEB09	2	5		4,947.60						
S51-6.01		Rotate 2 TF coils over the MC on the right side	1	26FEB09	26FEB09	2	5		3,298.40						
S51-6.02		Attach the temp support at end of Type-C MC	1	27FEB09	27FEB09	2	5		1,649.20						
S51-6.03		Lower leveler pad disengage base of MC right sid	0	02MAR09	27FEB09	2	5		0.00						
S51-6.04		Install TF support brackets	1	02MAR09	02MAR09	2	5		3,298.40						
S51-6.05		Secure First TF assy	1	03MAR09	03MAR09	2	5		1,649.20						
S51-6.06		Install TF support brackets	1	04MAR09	04MAR09	2	5		3,298.40						
S51-6.07		Secure 2nd TF coil	1	05MAR09	05MAR09	2	5		1,649.20						
S51-6.08		Install machine support plates	1	06MAR09	06MAR09	2	5		4,947.60						
S51-6.09		Reinstall leveler pad	0	09MAR09	06MAR09	2	5		0.00						
S51-6.1		Installed one side of the TF support brackets	1	09MAR09	09MAR09	2	5		1,649.20						
S51-7.01		The TF installation on the left side	7	10MAR09	18MAR09	2	5		21,439.60						
S51-8.01		Perform a fit-up check of the four TF coils	2	19MAR09	20MAR09	2	5		8,246.00						
S51-9.01		Tack weld the left and right port 4's.	1	23MAR09	23MAR09	2	5		3,298.40						
S51-9.02		Install boots on both port 4's.	2	24MAR09	25MAR09	2	5		6,596.80						
S51-10.01		Install PF coil support structure	4	26MAR09	31MAR09	2	5		13,193.60						
S51-11.01		Install tMC coolant manifold	2	01APR09	02APR09	2	5		4,947.60						
S51-11.02		Connect MC coolant lines to the manifold	10	03APR09	16APR09	2	5		32,984.00						
S51-12.01		Install Rogowski coils	3	17APR09	21APR09	2	5		8,246.00						
S51-13.01		Obtain set of Period 1 align fiducial positions	2	22APR09	23APR09	2	5		0.00						

41=15\$K ;  
 EM/TB =160hr ;  
 EM/TB =384hr ;  
 EM/TB =192hr ;  
 EM/TB =40hr ;  
 EM/TB =00hr ;  
 EM/TB =00hr ;  
 EM/TB =40hr ;  
 EM/TB =40hr ;  
 EM/TB =80hr ;  
 EM/TB =60hr ;  
 EM/TB =40hr ;  
 EM/TB =600hr ;  
 EM/TB =600hr ;  
 EM/TB =320hr ;  
 EM/TB =240hr ;  
 EM/TB =60hr ;  
 EM/TB =40hr ;  
 EM/TB =20hr ;  
 EM/TB =00hr ;  
 EM/TB =40hr ;  
 EM/TB =20hr ;  
 EM/TB =40hr ;  
 EM/TB =20hr ;  
 EM/TB =60hr ;  
 EM/TB =00hr ;  
 EM/TB =20hr ;  
 EM/TB =260hr ;  
 EM/TB =100hr ;  
 EM/TB =40hr ;  
 EM/TB =80hr ;  
 EM/TB =160hr ;  
 EM/TB =60hr ;  
 EM/TB =400hr ;  
 EM/TB =100hr ;  
 EM/TB =00hr ; ZMET =100 ;

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year						
										FY07	FY08	FY09	FY10	FY11		
S51-13.02		align to tooling balls on each MCHP	1	24APR09	24APR09	2	5		0.00						EM/TB =00hr ; ZMET =20 ;	
S51-13.03		bring the VV into proper alignment	2	27APR09	28APR09	2	5		6,596.80						EM/TB =80hr ;	
S51-13.04		Install or identify three primary fiducials	1	29APR09	29APR09	2	5		3,298.40						EM/TB =40hr ;	
S51-13.05		Make a final measurement of all fiducials	2	30APR09	01MAY09	2	5		0.00						EM/TB =00hr ; ZMET =100 ;	
S51-13.11		Check Assembly (bolts, etc)	3	04MAY09	06MAY09	2	5		8,246.00						EM/TB =100hr ;	
S51-13.12		Check Diagnostics (Loops, thermocouples)	2	07MAY09	08MAY09	2	5		8,246.00						EM/TB =100hr ;	
S51-13.13		Check manifolds (pressure, flow, etc.)	3	11MAY09	13MAY09	2	5		8,246.00						EM/TB =100hr ;	
S51-13.14		Check 6 modcoils (voltage etc)	3	14MAY09	18MAY09	2	5		9,895.20						EM/TB =120hr ;	
S51-13.15		Check trim coils (voltage etc)	2	19MAY09	20MAY09	2	5		4,947.60						EM/TB =60hr ;	
S51-13.16		Check TF coils (voltage etc)	3	21MAY09	26MAY09	2	5		9,895.20						EM/TB =120hr ;	
S51-14.01		Install crane rigging to completed Period assy	1	27MAY09	27MAY09	2	5		3,298.40						EM/TB =40hr ;	
S51-14.02		Remove platforms	1	28MAY09	28MAY09	2	5		1,649.20						EM/TB =20hr ;	
S51-14.03	2	Transfer Period 1 to Station 6 in NCSX tTC.	1	29MAY09	29MAY09	2	5		3,298.40						EM/TB =40hr ;	
<b>Station 5- Final FP Assy -FP#2 (in NCSX tTC)</b>																
S52-1.01		cut off short dome	2	12MAR09	13MAR09	1	9		3,298.40						EM/TB =40hr ;	
S52-1.02		Install insulation system around all ports.	0	16MAR09	13MAR09	1	9		0.00						EM/TB =00hr ;	
S52-1.03		Install heat tape and theomocouples on all ports	0	16MAR09	13MAR09	1	9		0.00						EM/TB =00hr ;	
S52-2.01		Install period support fixture	2	16MAR09	17MAR09	1	9		3,298.40						EM/TB =40hr ;	
S52-2.02		Install FPA on support stand.	2	18MAR09	19MAR09	1	9		3,298.40						EM/TB =40hr ;	
S52-2.03		Install external working platforms	4	20MAR09	25MAR09	1	9		6,596.80						EM/TB =80hr ;	
S52-2.04		Install internal VV working platforms	3	26MAR09	30MAR09	1	9		4,947.60						EM/TB =60hr ;	
S52-3.01		Install the domes (left and right side),	2	31MAR09	01APR09	1	9		3,298.40						EM/TB =40hr ;	
S52-3.02		Install small dome ports remaining circ ports.	30	02APR09	13MAY09	1	9		49,476.00						EM/TB =600hr ;	
S52-3.03		Leak check each port after it is welded.	30	23APR09	04JUN09	1	9		49,476.00						EM/TB =600hr ;	
S52-4.01		Install boots on ports except for the two port	16	26MAY09	16JUN09	1	9		26,387.20						EM/TB =320hr ;	
S52-5.01		Install MC lead connections on each of the MC's	1	17JUN09	17JUN09	2	9		0.00						EM/TB =00hr ;	
S52-5.02		Install MC coolant lines on each MC	6	18JUN09	25JUN09	2	9		19,790.40						EM/TB =240hr ;	
S52-5.03		Platforms may need to be altered	1	26JUN09	26JUN09	2	9		4,947.60						EM/TB =60hr ;	
S52-6.01		Rotate 2 TF coils over the MC on the right side	1	29JUN09	29JUN09	2	9		3,298.40						EM/TB =40hr ;	
S52-6.02		Attach the temp support at end of Type-C MC	1	30JUN09	30JUN09	2	9		1,649.20						EM/TB =20hr ;	
S52-6.03		Lower leveler pad disengage base of MC right sid	0	01JUL09	30JUN09	2	9		0.00						EM/TB =00hr ;	
S52-6.04		Install TF support brackets	1	01JUL09	01JUL09	2	9		3,298.40						EM/TB =40hr ;	
S52-6.05		Secure First TF assy	1	02JUL09	02JUL09	2	9		1,649.20						EM/TB =20hr ;	
S52-6.06		Install TF support brackets	1	06JUL09	06JUL09	2	9		3,298.40						EM/TB =40hr ;	
S52-6.07		Secure 2nd TF coil	1	07JUL09	07JUL09	2	9		1,649.20						EM/TB =20hr ;	
S52-6.08		Install machine support plates	2	08JUL09	09JUL09	2	9		4,947.60						EM/TB =60hr ;	
S52-6.09		Reinstall leveler pad	0	10JUL09	09JUL09	2	9		0.00						EM/TB =00hr ;	
S52-6.1		Installed one side of the TF support brackets	1	10JUL09	10JUL09	2	9		1,649.20						EM/TB =20hr ;	
S52-7.01		The TF installation on the left side	6	13JUL09	20JUL09	2	9		21,439.60						EM/TB =260hr ;	
S52-8.01		Perform a fit-up check of the four TF coils	3	21JUL09	23JUL09	2	9		8,246.00						EM/TB =100hr ;	

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
S52-9.01		Tack weld the left and right port 4's.	1	24JUL09	24JUL09	2	9		3,298.40						
S52-9.02		Install boots on both port 4's.	2	27JUL09	28JUL09	2	9		6,596.80						
S52-10.01		Install PF coil support structure	4	29JUL09	03AUG09	2	9		13,193.60						
S52-11.01		Install tMC coolant manifold	2	04AUG09	05AUG09	2	9		4,947.60						
S52-11.02		Connect MC coolant lines to the manifold	10	06AUG09	19AUG09	2	9		32,984.00						
S52-12.01		Install Rogowski coils	3	20AUG09	24AUG09	2	9		8,246.00						
S21-9.01		Install trim coil and supports	3	25AUG09	27AUG09	2	9		9,895.20						
S52-13.01		Obtain set of Period 1 align fiducial positions	2	28AUG09	31AUG09	2	9		0.00	EM//TB =00hr ; ZMET =100 ;					
S52-13.02		align to tooling balls on each MCHP	1	01SEP09	01SEP09	2	9		0.00	EM//TB =00hr ; ZMET =20 ;					
S52-13.03		bring the VV into proper alignment	2	02SEP09	03SEP09	2	9		6,596.80						
S52-13.04		Install or identify three primary fiducials	1	04SEP09	04SEP09	2	9		3,298.40						
S52-13.05		Make a final measurement of all fiducials	2	08SEP09	09SEP09	2	9		0.00	EM//TB =00hr ; ZMET =100 ;					
S52-13.11		Check Assembly (bolts, etc)	3	10SEP09	14SEP09	2	9		8,246.00						
S52-13.12		Check Diagnostics (Loops, thermocouples)	2	15SEP09	16SEP09	2	9		8,246.00						
S52-13.13		Check manifolds (pressure, flow, etc.)	3	17SEP09	21SEP09	2	9		8,246.00						
S52-13.14		Check 6 modcoils (voltage etc)	3	22SEP09	24SEP09	2	9		9,895.20						
S52-13.15		Check trim coils (voltage etc)	2	25SEP09	28SEP09	2	9		4,947.60						
S52-13.16		Check TF coils (voltage etc)	2	29SEP09	30SEP09	2	9		9,895.20						
S52-14.01		Install crane rigging to completed Period assy	1	01OCT09	01OCT09	2	9		3,410.40						
S52-14.02		Remove platforms	1	02OCT09	02OCT09	2	9		1,705.20						
S52-14.03	2	Transfer Period 2 to Station 6 in NCSX tTC.	1	05OCT09	05OCT09	2	9		3,410.40						
<b>Station 5- Final FP Assy -FP#3 (in NCSX TC)</b>															
S53-1.01		cut off short dome	1	09JUN09	09JUN09	2	0		3,298.40						
S53-1.02		Install insulation system around all ports.	0	10JUN09	09JUN09	2	0		0.00						
S53-1.03		Install heat tape and theomocouples on all ports	0	10JUN09	09JUN09	2	0		0.00						
S53-2.01		Install period support fixture	1	10JUN09	10JUN09	2	0		3,298.40						
S53-2.02		Install FPA on support stand.	1	11JUN09	11JUN09	2	0		3,298.40						
S53-2.03		Install external working platforms	2	12JUN09	15JUN09	2	0		6,596.80						
S53-2.04		Install internal VV working platforms	2	16JUN09	17JUN09	2	0		4,947.60						
S53-3.01		Install the domes (left and right side),	1	18JUN09	18JUN09	2	0		3,298.40						
S53-3.02		Install small dome ports remaining circ ports.	15	19JUN09	10JUL09	2	0		49,476.00						
S53-3.03		Leak check each port after it is welded.	15	30JUN09	21JUL09	2	0		49,476.00						
S53-4.01		Install boots on ports except for the two port	8	16JUL09	27JUL09	2	0		26,387.20						
S53-5.01		Install MC lead connections on each of the MC's	1	28JUL09	28JUL09	2	0		0.00						
S53-5.02		Install MC coolant lines on each MC	6	29JUL09	05AUG09	2	0		19,790.40						
S53-5.03		Platforms may need to be altered	2	06AUG09	07AUG09	2	0		4,947.60						
S53-6.01		Rotate 2 TF coils over the MC on the right side	1	10AUG09	10AUG09	2	0		3,298.40						
S53-6.02		Attach the temp support at end of Type-C MC	1	11AUG09	11AUG09	2	0		1,649.20						
S53-6.03		Lower leveler pad disengage base of MC right sid	0	12AUG09	11AUG09	2	0		0.00						
S53-6.04		Install TF support brackets	1	12AUG09	12AUG09	2	0		3,298.40						

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year				
										FY07	FY08	FY09	FY10	FY11
S53-6.05		Secure First TF assy	1	13AUG09	13AUG09	2	0		1,649.20					EM/TB =20hr ;
S53-6.06		Install TF support brackets	1	14AUG09	14AUG09	2	0		3,298.40					EM/TB =40hr ;
S53-6.07		Secure 2nd TF coil	1	17AUG09	17AUG09	2	0		1,649.20					EM/TB =20hr ;
S53-6.08		Install machine support plates	1	18AUG09	18AUG09	2	0		4,947.60					EM/TB =60hr ;
S53-6.09		Reinstall leveler pad	0	19AUG09	18AUG09	2	0		0.00					EM/TB =00hr ;
S53-6.1		Installed one side of the TF support brackets	1	19AUG09	19AUG09	2	0		1,649.20					EM/TB =20hr ;
S53-7.01		The TF installation on the left side	6	20AUG09	27AUG09	2	0		21,439.60					EM/TB =260hr ;
S53-8.01		Perform a fit-up check of the four TF coils	3	28AUG09	01SEP09	2	0		8,246.00					EM/TB =100hr ;
S53-9.01		Tack weld the left and right port 4's.	1	02SEP09	02SEP09	2	0		3,298.40					EM/TB =40hr ;
S53-9.02		Install boots on both port 4's.	2	03SEP09	04SEP09	2	0		6,596.80					EM/TB =80hr ;
S53-10.01		Install PF coil support structure	4	08SEP09	11SEP09	2	0		13,193.60					EM/TB =160hr ;
S53-11.01		Install tMC coolant manifold	2	14SEP09	15SEP09	2	0		4,947.60					EM/TB =60hr ;
S53-11.02		Connect MC coolant lines to the manifold	10	16SEP09	29SEP09	2	0		32,984.00					EM/TB =400hr ;
S53-12.01		Install Rogowski coils	3	30SEP09	02OCT09	2	0		8,432.67					EM/TB =100hr ;
S22-9.01		Install trim coil	3	05OCT09	07OCT09	2	0		10,231.20					EM/TB =120hr ;
S53-13.01		Obtain set of Period 1 align fiducial positions	2	08OCT09	09OCT09	2	0		0.00					EM/TB =00hr ; ZMET =100 ;
S53-13.02		align to tooling balls on each MCHP	1	12OCT09	12OCT09	2	0		0.00					EM/TB =00hr ; ZMET =20 ;
S53-13.03		bring the VV into proper alignment	2	13OCT09	14OCT09	2	0		6,820.80					EM/TB =80hr ;
S53-13.04		Install or identify three primary fiducials	1	15OCT09	15OCT09	2	0		3,410.40					EM/TB =40hr ;
S53-13.05		Make a final measurement of all fiducials	3	16OCT09	20OCT09	2	0		0.00					EM/TB =00hr ; ZMET =100 ;
S53-13.11		Check Assembly (bolts, etc)	2	21OCT09	22OCT09	2	0		8,526.00					EM/TB =100hr ;
S53-13.12		Check Diagnostics (Loops, thermocouples)	3	23OCT09	27OCT09	2	0		8,526.00					EM/TB =100hr ;
S53-13.13		Check manifolds (pressure, flow, etc.)	2	28OCT09	29OCT09	2	0		8,526.00					EM/TB =100hr ;
S53-13.14		Check 6 modcoils (voltage etc)	3	30OCT09	03NOV09	2	0		10,231.20					EM/TB =120hr ;
S53-13.15		Check trim coils (voltage etc)	2	04NOV09	05NOV09	2	0		5,115.60					EM/TB =60hr ;
S53-13.16		Check TF coils (voltage etc)	3	06NOV09	10NOV09	2	0		10,231.20					EM/TB =120hr ;
S53-14.01		Install crane rigging to completed Period assy	1	11NOV09	11NOV09	2	0		3,410.40					EM/TB =40hr ;
S53-14.02		Remove platforms	1	12NOV09	12NOV09	2	0		1,705.20					EM/TB =20hr ;
S53-14.03		Transfer Period 3 to Station 6 in NCSX tTC.	1	13NOV09	13NOV09	2	0		3,410.40					EM/TB =40hr ;
R1810-5333		Last field period assembled	0		13NOV09	2	0		0.00					▼

**19 - Stellarator Core Management and Integration**

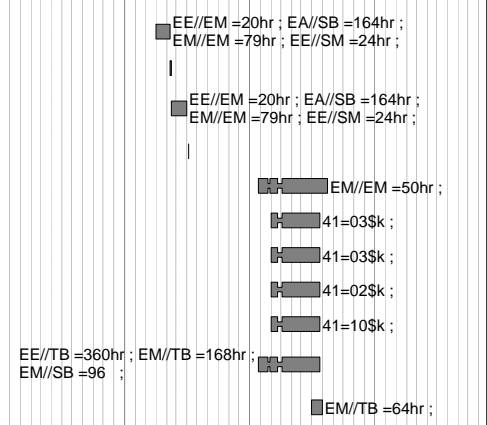
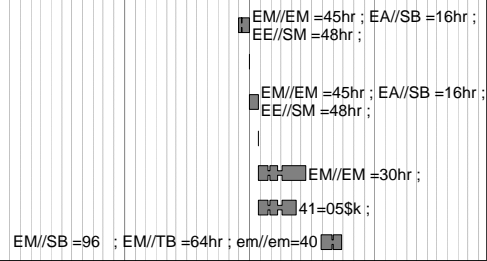
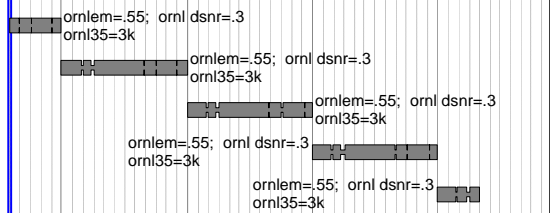
**Job: 1901 - Stellarator Core Mngt&Integr-COLE**

**191 - Stellarator Core Management & Oversight**

1901-07	WBS 191 FY07	LOE	106*	01MAY07*	28SEP07	1	1,249		77,380.44					cole=.50 fte nelson=.15 fte ; 35=05\$K ;
1901-08	WBS 191 FY08	LOE	249*	01OCT07*	29SEP08	1	1,000		208,453.58					cole=.50 fte nelson=.15 fte ; 35=06\$K ; ornl41=20.38k
1901-09	WBS 191 FY09	LOE	247*	01OCT08*	28SEP09	1	752		221,094.09					cole=.50 fte nelson=.15 fte ; 35= ornl41=20.38k
1901-10	WBS 191 FY10	SA LOE	248*	01OCT09*	30SEP10	1	502		229,029.48					cole=.50 fte nelson=.15 fte ; 35=06\$K ; ornl41=20.38k
1901-11	WBS 191 FY10	LOE	79*	01OCT10*	31JAN11	1	423		95,379.48					cole=.50 fte nelson=.15 fte ; 35=06\$K ; ornl41=20.38k



Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
<b>192 - Stellarator Core Integration &amp; Analysis</b>															
1902-07		WBS 192 FY07	106*	01MAY07*	28SEP07	1	1,249		84,180.68						
1902-08		WBS 192 FY08	249*	01OCT07*	29SEP08	1	1,000		199,924.56						
1902-09		WBS 192 FY09	247*	01OCT08*	28SEP09	1	752		210,949.08						
1902-10		WBS 192 FY10	248*	01OCT09*	30SEP10	1	502		219,015.60						
1902-11		WBS 192 FY10	79*	01OCT10*	31JAN11	1	423		74,333.10						
<b>2 - Plasma Heating, Fueling &amp; Vac Systems</b>															
<b>21 - Fueling Systems</b>															
<b>Job: 2101 - Fueling Systems-BLANCHARD</b>															
211-101		Preliminary Design	20	01SEP09*	29SEP09		55		16,457.10						
211-105		PDR	1	30SEP09	30SEP09		55		0.00						
211-109		Final Design	20	01OCT09	28OCT09		55		17,017.17						
211-113		FDR	1	29OCT09	29OCT09		55		0.00						
211-117		Title III	85	30OCT09	11MAR10		644		5,133.90						
211-121		Procure Material and Supplies	65	30OCT09	11FEB10		55		7,160.00						
211-125		Fabricate/Install/Test	40	28APR10	23JUN10		2		23,684.56						
<b>22 - Torus Vacuum Pumping Systems</b>															
<b>Job: 2201 - Vacuum Pumping Systems-BLANCHARD</b>															
220-101		Preliminary Design	30	02JAN09*	12FEB09		210		40,404.42						
220-105		PDR	1	13FEB09	13FEB09		210		0.00						
220-109		Final Design	35	16FEB09	03APR09		210		40,404.42						
220-113		FDR	1	06APR09	06APR09		210		0.00						
220-114		Title III	130	30OCT09	13MAY10		599		8,556.50						
220-117		Procure/Install AC pwr for backup sys	95	01DEC09*	22APR10		45		4,296.00						
220-121		Procure/Install TVPS/GIS Rack	95	01DEC09	22APR10		45		4,296.00						
220-125		Procure/Install Cabling	95	01DEC09	22APR10		45		2,148.00						
220-129		Procure TVPS materials	95	01DEC09	22APR10		45		14,320.00						
220-133		Assemble Fabricate (mechanical)	115	30OCT09	22APR10		45		55,543.20						
220-137		Installation/Test (mechanical)	20	02APR10*	29APR10		40		5,456.64						



Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted						
										FY07	FY08	FY09	FY10	FY11	
<b>3 - Diagnostics</b>															
<b>31 - Magnetic Diagnostics</b>															
<b>Job: 3101 - Magnetic Diagnostics-STRATTON</b>															
<b>Modular Coil C-wound Loops</b>															
3101-229		Fabricate(12) MC Protective boxes (completed)	43	01MAY07A	01MAY07A				0.00						
<b>Rogowski Coils</b>															
3101-316		CONCEP DESIGN ROWGOWSKI COIL	30	01MAY07*	12JUN07		188		9,235.20		EM//EM =60hr ;				
3101-317		PRELIM DESIGN ROWGOWSKI COIL incl prototype	30	13JUN07*	25JUL07		188		17,010.28		em//em=80;em//sm=242;em//tb=20;41=0.1k				
3101-318		PDR - ROWGOWSKI COIL	0		25JUL07*		188		0.00		▼				
3101-325		FINAL DESIGN ROWGOSKI COIL	30	26JUL07*	06SEP07		188		21,876.56		EM//EM =126hr ;em//sm=16;ea//sb=4				
3101-340		subcontract winding 3 mandrels	30	26JUL07*	06SEP07		188		19,140.00		41=15k				
3101-326	3	FDR - ROWGOSKI COIL	0		06SEP07		188		0.00		▼				
3101-329		FAB ROWGOWSKI COILS incl clamps	45	07SEP07	08NOV07		188		21,998.43		41=4.5\$K ; EM//EM =15hr ; EM//SM =32hr ; EM//TB =122hr ;				
3101-330		Title III	45	07SEP07	08NOV07		188		9,500.84		EM//EM =60				
<b>TF and PF Co-wound Loops</b>															
3101-425		Design Protective boxes for PF	20	01OCT07*	26OCT07		242		24,881.50		EA//SB =60hr ; EM//EM =110hr ;				
3101-426		Purchase SS Sheet	15	29OCT07*	16NOV07		242		1,218.07		EM//TB =1; 41=0.87k				
3101-452		Form Protective boxes	20	19NOV07	18DEC07		242		13,475.22		em//sm=102				
3101-454		Weld end plates of PF protective boxes	10	19DEC07	10JAN08		242		1,441.98		em//tb=18				
3101-427		Purchase Heat Shrink tubing	15	04SEP07*	24SEP07		286		3,012.14		EM//TB =6; 41=2.0k				
3101-428		Purchase aad'l CoAxial cable	40	04SEP07*	29OCT07		261		5,974.57		EM//TB =2hr ; 41=4.5\$K ;				
3101-450		Prototype PF Loops	10	30OCT07*	12NOV07		261		1,585.32		em//sm=12				
3101-458		FabTF,PF & solenoid co-wound loops	40	13NOV07	18JAN08		261		17,174.30		em//sm=130				
3101-456		Title III	70	29OCT07	14FEB08		242		5,788.44		em//em=36				
<b>T/C and Heater Tape Leads</b>															
1204-140		Design T/C and Heater Tape Leads	20	01AUG07*	28AUG07		116		20,933.12		EM//EM =136				
1204-140.2		Design Drafting T/C and Heater Tape Leads	20	01AUG07*	28AUG07		126		3,443.40		ea//sb=30				
1204-140.1		Peer Review T/C and Heater Tape Leads	5	08AUG07	14AUG07		126		4,617.60		EM//EM =30				
1204-141		Drawings Signed T/C and Heater Tape Leads	0		28AUG07		116		0.00		▼				
1204-146		Procurement support T/C and Heater Tape Leads	20	29AUG07	26SEP07		116		6,156.80		EM//EM =40				
1204-147		Field/Fab support (title III) T/C&Heater Tape	65	27SEP07	08JAN08		116		4,014.47		EM//EM =25				
1204-148		Machine 12 2.75 cf blanks	20	29AUG07	26SEP07		181		4,552.92		em//sm=36				
1204-150		Rubber seal	20	29AUG07	26SEP07		181		0.00						
1204-151		Machine 6 commercial aluminum boxes	20	29AUG07	26SEP07		181		4,552.92		em//sm=36				
<b>Flux loop junction boxes and spacer templates</b>															
1204-160		Design Protective Boxes	10	01MAY07	14MAY07		187		3,386.24		EM//EM =22				
1204-165		Issue req,Bid & Award- Flux Loop Junction Boxes	25	15MAY07	19JUN07		187		0.00						

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year				
										FY07	FY08	FY09	FY10	FY11
1204-170		Autocad dwgs of field runs/tag#/ports assignmt	10	01AUG07*	14AUG07		193		17,239.04					
1204-161		Fab Protective Boxes	10	09AUG07	22AUG07		187		5,727.88					
1204-171		Prep Dwgs of spacer loops	10	01AUG07*	14AUG07		593		6,886.80					
1204-172		Title III	96	15MAY07	28SEP07		1,249		18,470.40					
1204-173		Purchase material for boxes&spacers (in job 1204	35	20JUN07	08AUG07		187		6,237.64					
<b>Voltage Loops &amp; Protective Boxes</b>														
3101-800		Design Routing and Boxes	20	01OCT07*	26OCT07		239		9,794.54					
3101-802		Fab 3 protective Boxes	10	29OCT07	09NOV07		249		1,118.28					
3101-804		Purchase 900ft cable	20	29OCT07*	23NOV07		239		2,414.38					
3101-806		Title III	20	29OCT07	23NOV07		239		964.74					
<b>36 - Edge and Divertor Diagnostics</b>														
<b>Job: 3601 - Edge Divertor Diagnostics-STRATTON</b>														
361-001		Design Visible Camera sys	40	01OCT09*	25NOV09		51		17,054.80					
361-015		Procure flange>window and material	65	30NOV09	10MAR10		51		5,012.00					
361-016		fabricate and assemble Visible tv camera sys	20	11MAR10	07APR10		51		8,828.96					
<b>38 - Electron Beam (EB) Mapping</b>														
<b>Job: 3801 - Electron Beam Mapping-STRATTON</b>														
380-010		E-beam mapping- Prelim Design	40	02MAR09*	24APR09		114		44,761.80					
380-015		E-beam mapping-PDR	1	27APR09	27APR09		114		0.00					
380-100		E-beam mapping-Final Design	40	28APR09*	23JUN09		114		56,544.80					
380-110		E-beam mapping-FDR	1	24JUN09	24JUN09		114		0.00					
380-115		E-beam mapping-Procure Rack	65	01OCT09*	13JAN10		46		47,369.60					
380-120		E-beam mapping-Procure Ports	65	01OCT09	13JAN10		46		5,728.00					
380-130		E-beam mapping-Procure Data Acquisition	65	01OCT09*	13JAN10		46		14,320.00					
380-135	2	E-beam mapping- Assemble	65	14JAN10*	14APR10		46		94,239.24					
<b>39 - Diagnostics Integration</b>														
<b>Job: 3901 - Diagnostics sys Integration-STRATTON</b>														
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					

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
<b>4 - Electrical Power Systems</b>															
<b>41 - AC Power</b>															
<b>Job: 4101 - AC Power-RAMAKRISHNAN</b>															
<b>411 - Auxiliary AC Power Systems</b>															
4101-100.1		Prepare Preliminary One line diagram	173	01OCT08*	12JUN09		37		1,390.80						
411-1-100		Ex-Test cell AC pwr-Reactiv.&new instl	210	02JAN09*	27OCT09		114		12,652.35						
411-2-2		Grounding-Dsn	65	02JAN09*	02APR09		87		32,604.96						
411-2-4		Grounding-Procure	107	18AUG09*	28JAN10		70		14,218.60						
411-2-6		Grounding-Install	43	29JAN10*	30MAR10		70		46,659.48						
411-2-8		Grounding-Commission	29	31MAR10*	10MAY10		70		16,166.80						
411-3-2		Test Cell AC Power Distr-Dsn**GPP**	90	02JAN09*	07MAY09		104		0.00						
411-3-4		TC AC Pwr Distr-Procure(pnl&xfrmrs)**GPP**	65	08MAY09	10AUG09		104		0.00						
411-3-6		Test Cell AC Power Distr-Install**GPP**	65	11AUG09	10NOV09		104		0.00						
411-3-8		Test Cell AC Power Distr-Commission**GPP**	45	11NOV09*	26JAN10		104		0.00						
<b>412 - Experimental AC Power Systems</b>															
412-1-2		C-site Pulsed AC Power Distr-Dsn	65	02MAR09*	01JUN09		46		4,832.00						
412-1-4		C-site Pulsed AC Power Distr-Procure	94*	18AUG09	11JAN10		37		7,102.29						
412-1-6		C-site Pulsed AC Power Distr-Install	40	12JAN10	08MAR10		37		11,553.36						
412-1-8		C-site Pulsed AC Power Distr-Commission	78	09MAR10	25JUN10		37		11,384.00						
4101ACPWR		Prior ac pwr work reclassified as gpp	356	01MAY07A	31MAY07A				-104,100.00						
<b>43 - DC Systems</b>															
<b>Job: 4301 - DC Systems-RAMAKRISHNAN</b>															
<b>431 - C-Site DC Systems</b>															
431-200		Condition/spare parts inventory	20	01OCT08*	28OCT08		387		2,308.00						
431-210		Organize & verify documentation	20	29OCT08*	25NOV08		387		4,531.16						
431-215		Document status	10	26NOV08*	11DEC08		387		2,857.28						
431-225		Reactivate DF & PEI units	15	12DEC08*	12JAN09		387		22,697.68						
431-230		Duummy Load test of DF & PEI units	15	13JAN09*	02FEB09		387		11,490.04						
431-240		Simulate each of 6 pwr loops in PSCAD	90	01OCT08*	16FEB09		260		18,572.32						
431-250		c-site dc sys DGS dsn documentation	90	01OCT08*	16FEB09		260		61,765.20						
431-261		Redo power loop design	90	01OCT08*	16FEB09		260		52,479.04						
431-265		Fabricate bus components	20	29JUL09*	25AUG09		146		86,139.48						
431-275		Power cabling & Installation	97	02NOV09*	30MAR10		99		317,964.40						

EA/SB =06hr ; EE/EM =02hr ; EE/SM =02hr ;

41=05\$K ; EA/SB =05hr ; EE/EM =08hr ; EE/SM =13hr ; EE/TB =21hr ;

EA/SB =160hr ; EE/EM =72hr ;

41=10\$K ;

41=18\$K ; EE/EM =28hr ; EA/SB =56hr ; EE/TB =112hr ; EE/EM =24hr ; EA/SB =40hr ; EE/TB =80hr ;

EA/SB =16hr ; EE/EM =16hr ;

41=05\$K ;

EE/EM =08hr ; EE/SM =16hr ; EE/TB =80hr ; EA/SB =08hr ; EE/EM =24hr ; EE/SM =24hr ; EE/TB =40hr ;

EE/EM =08hr ; EE/SM =06hr ;

EA/SB =10hr ; EE/EM =16hr ; EE/SM =03hr ;

EE/EM =16hr ;

EE/EM =40hr ; EE/SM =08hr ; EE/TB =40hr ; 41=08\$K ; EE/SM =08hr ; 41=01\$K ;

EE/EM =104hr ;

EA/SB =240hr ; EE/EM =180hr ;

EA/SB =240hr ; EE/EM =128hr ;

EE/EM =16hr ; EE/SM =40hr ; EE/TB =120hr ; 41=45\$K ; EA/SB =40hr ;

41=140\$K ; EE/EM =40hr ; EE/SM =240hr ; EE/TB =520hr ; EA/SB =240hr ;

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year						
										FY07	FY08	FY09	FY10	FY11		
431-276		Maint of C-site rectifiers	501	01OCT07*	02OCT09		216		22,026.38						41=05\$K ; EE/TB =120hr ; EE//SM =40hr ;	
<b>44 - Control and protection Systems</b>																
<b>Job: 4401 - Control &amp; Protection-RAMAKRISHNAN</b>																
<b>441 - Electrical Interlocks</b>																
441-095		Design Interlock sys	65	01JUN09*	31AUG09		241		30,948.00						EA/SB =40hr ; EE//EM =80hr ; EE//SM =80hr ;	
441-097		Install Interlock sys	40	01SEP09	27OCT09		241		26,431.48						EE//EM =80hr ;	
441-100		PLC Specification	20	02MAR09*	27MAR09		75		12,493.28						EE//EM =24hr ; EE//SM =56hr ;	
441-105		Prep Block diagrams	20	30MAR09	24APR09		75		16,010.72						EE//EM =24hr ; EE//SM =80hr ;	
441-110		PLC CWD's & Cabling	40	27APR09*	22JUN09		75		63,679.68						EE//EM =16hr ; EE//SM =240hr ; EE//TB =320hr ;	
441-115		deliver PLC	130	23JUN09	06JAN10		75		98,920.77						41=70\$K ;	
441-120		Program PLC Logic	45	07JAN10	10MAR10		75		48,189.60						EE//EM =64hr ; ee/sm=240	
441-125		Program Control pages	40	11MAR10	05MAY10		75		30,509.20						EC//EM =40hr ; EE//EM =32hr ; EE//SM =120hr ;	
441-130		Pre-commissioning tests	20	06MAY10	03JUN10		75		27,004.00						41=01\$K ; EE//EM =40hr ; EE//SM =120hr ;	
441-135		Install I/O Cabling control & protection	90	25FEB10	01JUL10		75		127,497.20						41=38\$K ; EA/SB =160hr ; EE//EM =40hr ; EE//SM =80hr ; EE//TB =400hr ;	
<b>442 - Kirk Key Interlocks</b>																
442-1-2		Kirk Keys-Dsn	40	01OCT09*	25NOV09		45		23,657.60						EA/SB =80hr ; EE//EM =40hr ; EE//SM =40hr ;	
442-1-4		Kirk Keys-Procure	65	30NOV09	10MAR10		45		19,434.40						41=10\$K ; EE//EM =08hr ; EE//SM =24hr ;	
442-1-6		Kirk Keys-Install	90	01APR10*	06AUG10		30		34,702.00						41=15\$K ; EE//EM =16hr ; EE//SM =24hr ; EE//TB =80hr ;	
442-1-8		Kirk Keys-Commission	20	09AUG10	03SEP10		30		7,643.00						EE//EM =16hr ; EE//SM =20hr ; EE//TB =20hr ;	
<b>443 - Real Time Control Systems</b>																
443-1-2		Develop Control Algorithms-Dsn	65	01OCT09*	13JAN10		195		14,772.00						EE//EM =80hr ;	
<b>444 - Instrument Systems</b>																
444-2-2		DC Potential Transducers (DCPTs)-Dsn	40	01OCT09*	25NOV09		100		9,536.40						EA/SB =40hr ; EE//EM =24hr ;	
444-2-4		DC Potential Transducers (DCPTs)-Procure	65	30NOV09	10MAR10		100		10,633.92						41=06\$K ; EA/SB =16hr ;	
444-2-6		DC Potential Transducers (DCPTs)-Install	40	11MAR10	05MAY10		100		21,894.32						EE//EM =16hr ; EE//SM =24hr ; EE//TB =160hr ; EA/SB =16hr ;	
444-2-8		DC Potential Transducers (DCPTs)-Commission	15	06MAY10	26MAY10		100		13,041.60						EE//EM =24hr ; EE//SM =24hr ; EE//TB =60hr ;	
444-3-2		DC Shunts-Dsn	20	01OCT09*	28OCT09		240		8,515.44						EA/SB =32hr ; EE//EM =24hr ;	
444-4-2		Signal Conditioning & Cabling-Dsn	130	01JUL09*	14JAN10		54		90,210.87						EA/SB =24hr ; EE//EM =480hr ;	
444-4-4		Signal Conditioning & Cabling-Procure	65	15JAN10	15APR10		54		20,138.40						41=12\$K ; EE//EM =16hr ;	
444-4-6		Signal Conditioning & Cabling-Install	65	16APR10	19JUL10		54		27,638.00						EE//EM =24hr ; EE//TB =280hr ;	
444-4-8		Signal Conditioning & Cabling-Commission	10	20JUL10	02AUG10		54		18,240.40						EE//EM =48hr ; EE//SM =40hr ; EE//TB =40hr ;	
<b>445 - Coil Protection Systems</b>																
445-1-2		Ground Fault Protection-Dsn	65	02FEB09*	01MAY09		66		35,854.56						EA/SB =40hr ; EE//EM =160hr ; EE//SM =16hr ;	
445-1-4		Ground Fault Protection-Procure	65	18AUG09*	17NOV09		81		28,383.62						41=18\$K ; EE//EM =16hr ;	

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Budget					
										FY07	FY08	FY09	FY10	FY11	
445-1-6		Ground Fault Protection-Install	75	18NOV09*	16MAR10		81		25,626.96						EE//EM =40hr ; EE//SM =48hr ; EE//TB =120hr ; EA//SB =08hr ;
445-1-8		Ground Fault Protection-Commission	70	17MAR10	23JUN10		81		10,720.96						EE//EM =24hr ; EE//SM =24hr ; EE//TB =32hr ;
445-2-105		Overload Protect-Write spec and approve	20	03AUG09*	28AUG09		102		14,286.40						EE//EM =80hr ;
445-2-110		Overload Protect-Design	40	31AUG09*	26OCT09		112		26,177.60						EA//SB =32hr ; EE//EM =96hr ; EE//SM =32hr ;
445-2-115		Overload Protect-Fabr 4 chassis	65	27OCT09*	08FEB10		132		27,049.20						EE//EM =48hr ; EE//SM =120hr ;
445-2-120		Overload Protect-Test 4 units	10	09FEB10	22FEB10		132		10,758.40						EE//EM =32hr ; EE//SM =32hr ;
445-2-125		Overload Protect-Install & Rack wiring	20	23FEB10	22MAR10		132		20,532.55						EE//EM =48hr ; EE//SM =77hr ;
445-2-130		Overload Protect-Write & perform ISTEP	15	23MAR10	12APR10		132		10,758.40						EE//EM =32hr ; EE//SM =32hr ;
445-2-135		Overload Protect-Documentation	180	31AUG09*	24MAY10		102		11,077.36						EA//SB =64hr ; EE//EM =16hr ;
445-2-140		Overload Protection&cabling design,procure instl	130	27OCT09*	10MAY10		112		61,328.23						41=13\$K ; EA//SB =80hr ; EE//EM =96hr ; EE//SM =45hr ; EE//TB =96hr ;

### 45 - Power System Design and Integration

#### Job: 4501 - Power Sys Dsn & Integr-RAMAKRISHNAN

##### 451 - System Design & Interfaces

451-0-2		Develop SRD	15	01OCT08*	21OCT08		146		7,143.20						EE//EM =40hr ;
451-3-2		Dwgs,asbuilts -Elect Dsn	245	08OCT08*	01OCT09		259		96,653.42						EA//SB =320hr ; EE//EM =320hr ;
451-2-2		PDR Prep Power system -Dsn	40	22OCT08	18DEC08		146		32,941.44						EA//SB =128hr ; EE//EM =96hr ;
451-2-3	2	PDR Power system -Dsn	0		18DEC08		146		0.00						
451-6-2	2	Final design C-Site -Cabling	149	19DEC08	28JUL09		146		29,096.80						EA//SB =120hr ; EE//EM =80hr ;
451-2-2.1		Final Design C-Site	149	19DEC08	28JUL09		146		29,096.80						EA//SB =120hr ; EE//EM =80hr ;
451-1-2		Calculations-Dsn	149	22OCT08*	01JUN09		186		8,130.56						EA//SB =08hr ; EE//EM =40hr ;
451-202.2		FDR C-Site	0		28JUL09		146		0.00						EA//SB =40hr ; EE//EM =40hr ;
451-4-2		Final Dsn AC auxiliaries & grounding-Dsn	45	15JUN09	17AUG09		37		12,080.00						
451-402.1		FDR AC auxiliaries & grounding-Dsn	0		17AUG09		37		0.00						

##### 452 - Electrical Systems Support

452-1-2		Diagnostics AC Power Distr-Dsn	40	02MAR09*	24APR09		170		34,033.60						EA//SB =160hr ; EE//EM =80hr ;
452-1-4		Diagnostics AC Power Distr-Procure	40	27APR09	22JUN09		170		2,384.36						41=01\$K ; EA//SB =08hr ;
452-1-6		Diagnostics AC Power Distr-Install	130	23JUN09	06JAN10		170		78,393.29						EE//EM =24hr ; EE//SM =80hr ; EE//TB =640hr ; EA//SB =80hr ;
452-1-8		Diagnostics AC Power Distr-Commission	30	07JAN10	17FEB10		170		29,816.40						EE//EM =24hr ; EE//SM =80hr ; EE//TB =160hr ;
452-2-2		Diagnostics sensor cabling-Dsn	43	01MAY09*	01JUL09		205		24,033.12						EA//SB =160hr ; EE//EM =24hr ;
452-2-4		Diagnostics sensor cabling-Procure	65	02JUL09	02OCT09		205		2,796.15						41=02\$K ;
452-2-6		Diagnostics sensor cabling-Install	43	05OCT09	04DEC09		205		21,064.80						EE//EM =16hr ; EE//SM =32hr ; EE//TB =160hr ;
452-2-8		Diagnostics sensor cabling-Commission	10	07DEC09	18DEC09		205		6,554.16						EE//EM =08hr ; EE//SM =16hr ; EE//TB =32hr ;

##### 453 - System Testing (PTP's)

453-1-2		New Procedures	90	01JUL09*	05NOV09		134		24,269.34						EA//SB =160hr ; EE//EM =24hr ;
453-1-3		Preop Testing-Procure test equipt	65	03AUG09*	02NOV09		217		28,187.69						41=20\$K ;
453-1-4		TF Coil Test	20	21SEP10*	18OCT10		0		19,276.93						41=01\$K ; EA//SB =08hr ; EE//EM =32hr ; EE//SM =40hr ; EE//TB =54hr ;

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year				
										FY07	FY08	FY09	FY10	FY11
453-1-5		PF Coil Test	20	21SEP10*	18OCT10		0		19,276.93					
453-1-6		Trim Coil Coil Test	20	21SEP10*	18OCT10		0		18,550.13					
453-1-8		Testing PTPs, ISTPs	100	27MAY10*	18OCT10		0		159,346.02					

41=01\$K; EA/SB =08hr ;  
 EE//EM =32hr ; EE//SM =40hr ;  
 EE//TB =54hr ;  
 41=01\$K; EA/SB =08hr ;  
 EE//EM =32hr ; EE//SM =40hr ;  
 EE//TB =54hr ;  
 41=10\$K; EE//EM =240hr ;  
 EE//SM =320hr ; EE//TB =376hr ;  
 EA/SB =160hr ;

## 5 - Central I&C Systems

### 51 - Network and Fiber Infrastructure

#### Job: 5101 - Network and Fiber Infrastruct-SICHTA

R51-10		Preliminary Design	30	01JUL09*	12AUG09		93		4,652.70
R51-11		PDR	0		12AUG09		93		0.00
R51-20		Final Design	60	13AUG09	05NOV09		93		4,721.21
R51-21		FDR	0		05NOV09		93		0.00
R51-30		Procurement	60	06NOV09	11FEB10		93		53,416.80
R51-50		Installation	60	12FEB10	06MAY10		93		83,587.00
R51-60		Test	14	07MAY10	26MAY10		93		4,766.40

EC//EM =30hr ;  
 EC//EM =30hr ;  
 EC//EM =20hr ; 37=04 ;  
 43=10 ; 41=29.8\$K ;  
 EC//EM =60hr ; EC//TB =20 ;  
 EA/SB =240hr ; EM//TB =490hr ;  
 EC//EM =20hr ; EC//TB =20 ;

### 52 - Central Instrumentation & Control

#### Job: 5201 - I&C Systems-SICHTA

R52-10		Preliminary Design	30	02MAR09*	10APR09		49		6,203.60
R52-11		PDR	0		10APR09		49		0.00
R52-20		Final Design	60	13APR09	07JUL09		49		6,203.60
R52-21		FDR	0		07JUL09		49		0.00
R52-30		Procurement	30	08JUL09	18AUG09		49		33,899.80
R52-40		EPICS Programming - Base	10	19AUG09	01SEP09		49		12,407.20
R52-50		EPICS Programming - VDCT db editor	30	02SEP09	14OCT09		229		6,273.87
R52-60		IOC Programming - MDSplus data & events	30	02SEP09	14OCT09		229		18,821.60
R52-70		OPC - EPICS/PLC Interface	90	02SEP09	20JAN10		49		28,002.44
R52-80		Appl. Programming-T/C	30	21JAN10	03MAR10		49		12,828.80
R52-90		Programming - misc.	90	04MAR10	09JUL10		49		16,036.00
R52-100		Installation	60	15APR10	09JUL10		49		49,987.20
R52-110		Test	14	12JUL10	29JUL10		49		6,414.40

EC//EM =40hr ;  
 EC//EM =40hr ;  
 EC//EM =20hr ; 37=03 ;  
 43=17 ; 41=18\$K ;  
 EC//EM =80hr ;  
 EC//EM =40hr ;  
 EC//EM =120hr ;  
 EC//EM =160hr ; 43=02 ;  
 35=02\$K ;  
 EC//EM =80hr ;  
 EC//EM =100hr ;  
 EC//EM =40hr ; EC//TB =100 ;  
 EA/SB =120hr ; EM//TB =240hr ;  
 EC//EM =40hr ;

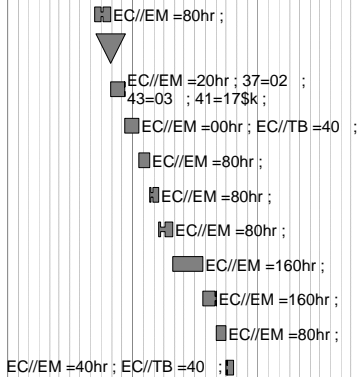
### 53 - Data Acquisition & Facility Computing

#### Job: 5301 - Data Acquisition-SICHTA

R53-10		Preliminary Design	30	01MAY09*	12JUN09		55		6,203.60
R53-11		PDR	0		12JUN09		55		0.00

EC//EM =40hr ;

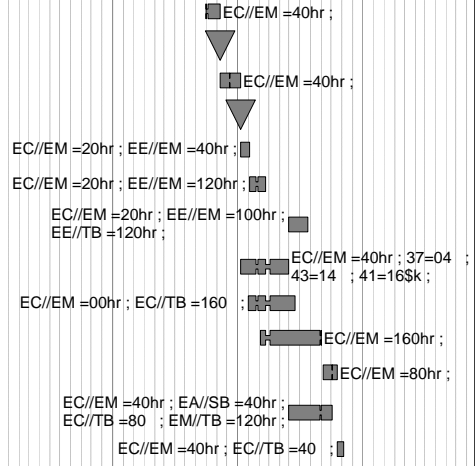
Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	FY07					FY08					FY09					FY10					FY11				
R53-20		Final Design	30	15JUN09	27JUL09		55		12,407.20																									
R53-21		FDR	0		27JUL09		55		0.00																									
R53-30		Procurement	30	28JUL09	08SEP09		55		30,618.80																									
R53-40		Installation	30	09SEP09	20OCT09		55		3,063.79																									
R53-50		MDSplus Installation	20	21OCT09	17NOV09		55		12,828.80																									
R53-60		MDSplus Programming - Tree Design	20	18NOV09	17DEC09		55		12,828.80																									
R53-70		MDSplus Programming - Shot Sync	20	18DEC09	26JAN10		55		12,828.80																									
R53-110		Programming - Misc.	60	27JAN10	20APR10		55		25,657.60																									
R53-80		MDSplus Programming - Dispatcher	30	21APR10	02JUN10		55		25,657.60																									
R53-90		MDSplus Programming - Acquisition	20	03JUN10	30JUN10		55		12,828.80																									
R53-120		Test	14	01JUL10	21JUL10		55		9,532.80																									



### 54 - Facility Timing & Synchronization

#### Job: 5401 - Facility Timing & Synchron.-SICHTA

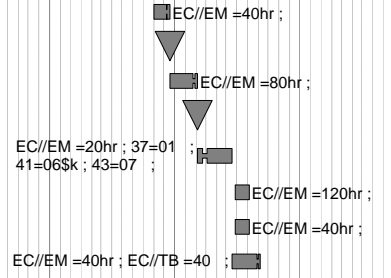
R54-10		Preliminary System Design	30	01JUL09*	12AUG09		43		6,203.60																				
R54-11		PDR	0		12AUG09		43		0.00																				
R54-20		Final SystemDesign	40	13AUG09	08OCT09		43		6,235.22																				
R54-21		FDR	0		08OCT09		143		0.00																				
R54-30		Preliminary Design - Clock Dist.	20	09OCT09	05NOV09		143		10,593.20																				
R54-40		Final Design - Clock Dist.	30	06NOV09	21DEC09		143		25,365.20																				
R54-50		Test - Clock Dist.	40	26FEB10	22APR10		103		31,617.80																				
R54-60		Procurement	90	09OCT09	25FEB10		53		36,862.40																				
R54-70		UNT - Timing & Seq Emulation (FPGA Pgm)	90	02NOV09*	19MAR10		127		12,473.60																				
R54-80		UNT - Device Driver Prog (EPICS/MDSplus)	120	08DEC09	04JUN10		43		25,657.60																				
R54-90		Central Clock (EPICS) Programming	30	07JUN10	19JUL10		43		12,828.80																				
R54-100		Installation	90	26FEB10	02JUL10		53		27,987.20																				
R54-110		Test	14	20JUL10	06AUG10		43		9,532.80																				



### 55 - Real Time Plasma & Power Supply Control Sys

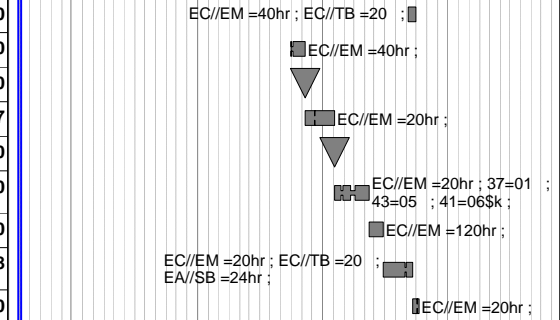
#### Job: 5501 - Real Time Control System-SICHTA

R55-10		FCPC - Preliminary Design	30	03AUG09*	14SEP09		71		6,203.60																				
R55-11		PDR	0		14SEP09		71		0.00																				
R55-20		FCPC -Final Design	60	15SEP09	09DEC09		71		12,744.48																				
R55-21		FDR	0		09DEC09		71		0.00																				
R55-30		FCPC - Procurement	60	10DEC09	15MAR10		71		13,683.20																				
R55-40		FCPC LabVIEW Programming	30	26MAR10	06MAY10		93		19,243.20																				
R55-45		FCPC PLC Integration-EPICS Prog.	30	26MAR10	06MAY10		93		6,414.40																				
R55-50		FCPC - Installation	60	16MAR10	08JUN10		71		9,532.80																				





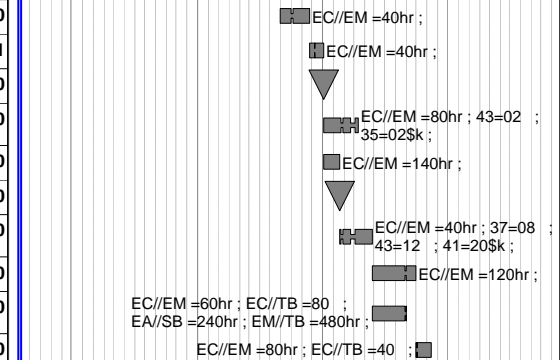
Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	FY				
										FY07	FY08	FY09	FY10	FY11
R55-60		FCPC -Test	14	09JUN10	28JUN10		71		7,973.60					
R55-70		GISRTC - Preliminary Design	30	01JUL09*	12AUG09		63		6,203.60					
R55-71		PDR	0		12AUG09		63		0.00					
R55-80		GISRTC -Final Design	60	13AUG09	05NOV09		63		3,147.47					
R55-81		FDR	0		05NOV09		63		0.00					
R55-90		GISRTC - Procurement	60	06NOV09	11FEB10		63		13,683.20					
R55-100		GISRTC LabVIEW Programming	30	12FEB10	25MAR10		63		19,243.20					
R55-110		GISRTC - Installation	60	26MAR10	18JUN10		63		7,829.28					
R55-120		GISRTC -Test	14	21JUN10	09JUL10		63		3,207.20					



**56 - Central Safety and Interlock Systems**

**Job: 5601 - Central Safety & Interlock Sys-SICHTA**

R56-10		Requirements, Codes&Standards	60	01JUN09*	24AUG09		39		6,203.60
R56-20		Preliminary Design	30	25AUG09	06OCT09		39		6,231.71
R56-21		PDR	0		06OCT09		39		0.00
R56-30		PLC Training	60	07OCT09	12JAN10		159		15,374.80
R56-35		Final Design	30	07OCT09	17NOV09		39		22,450.40
R56-36		FDR	0		17NOV09		39		0.00
R56-40		Procurement	60	18NOV09	23FEB10		39		50,126.40
R56-50		PLC Programming	90	24FEB10	30JUN10		39		19,243.20
R56-60		Installation	70	24FEB10	02JUN10		59		87,412.00
R56-70	2	Test	30	01JUL10	12AUG10		39		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		24,107.20
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



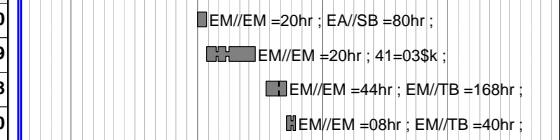
**6 - Facility Systems**

**61 - Water Systems**

**Job: 6101 - Water Systems-DUDEK**

**613 - Vacuum Pumping System**

6101-100		Design Vac Pmp water sys	20	01OCT08*	28OCT08		258		13,183.60
6101-105		Procure Hardware and materials Vac Pmp water sys	90	29OCT08	16MAR09		258		7,459.09
6101-110		Fabricate and Install Vac Pmp water sys	40	20APR09*	15JUN09		234		21,135.28
6101-115		Test Vac Pmp water sys	22	16JUN09	16JUL09		234		4,622.40



Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
<b>62 - Cryogenic Systems</b>															
<b>Job: 6201 - Cryogenic Syst-GETTELFINGER</b>															
<b>621 - LN2-LHe Supply System</b>															
621-101		LN2 - LHe Supply-Preliminary Design	20	01OCT08*	28OCT08		221		9,256.72						
621-121		LN2 - LHe Supply-Final Design	20	29OCT08	25NOV08		222		10,244.08						
621-131		LN2 - LHe Supply-Procure Hardware & Materials	65	01OCT09*	13JAN10		124		40,282.16						
621-141		LN2 - LHe Supply-Fabricate & Assembly	35	14JAN10	03MAR10		124		20,272.00						
621-151		LN2 - LHe Supply-Title III	100	01OCT09	03MAR10		124		7,529.72						
<b>622 - LN2 Coil Cooling Supply</b>															
622-101		LN2 Coil Cooling Supply-Prelim Design	20	01OCT08*	28OCT08		221		10,984.60						
622-121		LN2 Coil Cooling Supply-Final Design	20	29OCT08	25NOV08		222		10,984.60						
622-131		LN2 Coil Cooling Supply-Procure Hardware	65	12AUG09*	11NOV09		144		22,398.49						
622-141		LN2 Coil Cooling Supply-Assemble Skid	25	12NOV09	18DEC09		144		18,158.80						
622-151		LN2 Coil Cooling Supply-Relocate skid to NCSX TC	25	21DEC09	03FEB10		144		18,158.80						
622-161		LN2 Coil Cooling Supply-Title III	115	12AUG09	03FEB10		144		7,454.33						
<b>623 - GN2 Cryostat Cooling System</b>															
623-100		GN2 Cryostat Cooling Sys Development	30	05JAN09*	13FEB09		122		87,993.60						
623-101		GN2 Cryostat Cooling Sys-Preliminary Design	30	16FEB09*	27MAR09		122		18,176.80						
623-121		GN2 Cryostat Cooling Sys-Analysis	30	19MAR09*	29APR09		99		30,593.60						
623-141		GN2 Cryostat Cooling Sys-WBS 62/171 PDR	1	30APR09	30APR09		99		1,324.00						
623-161		GN2 Cryostat Cooling Sys-Final Design	20	01MAY09	29MAY09		99		16,942.60						
623-181		GN2 Cryostat Cooling Sys-WBS 62/171 FDR	1	11AUG09	11AUG09		49		1,324.00						
623-201		GN2 Cryostat Cooling Sys-Procure Hardware	88	12AUG09	16DEC09		49		144,346.32						
623-221		GN2 Cryostat Cooling Sys-Assemble & Install	122	17DEC09	17JUN10		49		156,307.20						
623-261	2	WBS 62/171 Cryo systems PTP	10	18JUN10	01JUL10		49		13,666.00						
623-262		GN2 Cryostat Cooling Supply-Title III	258	12AUG09	25AUG10		527		8,177.58						
<b>63 - Utility Systems</b>															
<b>Job: 6301 - Utility Systems-DUDEK</b>															
<b>6301 - Utility Systems-DUDEK</b>															
6301-001		Vac Vent and Air sys- Prelim Dsn	20	06OCT08*	31OCT08		285		18,479.60						
6301-005		Vac Vent and Air sys- PDR	1	03NOV08*	03NOV08		285		1,324.00						
6301-009		Vac Vent and Air sys- Final dsn	10	04NOV08*	17NOV08		285		11,859.60						
6301-010		Vac Vent and Air sys- FDR	1	18NOV08*	18NOV08		285		1,324.00						
6301-013		Vac Vent and Air sys- Procure hardware and compo	60	19NOV08	23FEB09		285		37,396.80						
6301-017		Vac Vent and Air sys- Fabricate and Install	40	01MAY09*	26JUN09		237		29,862.12						
6301-020		Vac Vent and Air sys-Test	10	29JUN09*	13JUL09		237		4,622.40						

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
<b>64 - PFC/VV Heating &amp; Cooling (Bakeout)</b>															
<b>Job: 6401 - PFC/VV Htng/Cooling(bakeout)- KALISH</b>															
6401-000		Bakeout Sys- Requirements Definition	40	06APR09*	01JUN09		93		15,296.80						
6401-001		Bakeout Sys-Preliminary Design	40	02JUN09*	28JUL09		93		43,874.32						
6401-002		Bakeout Sys-PDR	1	29JUL09*	29JUL09		93		1,529.68						
6401-004		Bakeout Sys- EA Analysis	30	30JUL09	10SEP09		93		30,593.60						
6401-005		Bakeout Sys-Final Design	40	11SEP09*	05NOV09		93		44,844.12						
6401-009		Bakeout Sys-FDR	1	06NOV09*	06NOV09		93		1,581.68						
6401-010		Bakeout Sys-Procure Piping & Equip	65	09NOV09*	19FEB10		93		236,552.08						
6401-013		Assemble & Install	65	22FEB10*	21MAY10		93		169,667.40						
6401-017		Bakeout Sys- ACC Review	10	24MAY10*	07JUN10		93		11,318.80						
6401-020		Bakeout Sys-PTP Testing	10	08JUN10*	21JUN10		93		18,139.60						
<b>7 - Test Cell Preparation and Machine Assy</b>															
<b>73 - Platform Design &amp; Fabrication</b>															
<b>Job: 7301 - Platform Design &amp; Fab-PERRY</b>															
711A.040		Platform nut plates	30	02OCT08	12NOV08		16		3,004.40						
712.020		Platform Parts	30	02OCT08	12NOV08		16		34,225.00						
712.030		Miscs Hardware/Material	40	18SEP08	12NOV08		16		22,031.60						
7301-100		Survey & layout locations for platform posts	10	30OCT08	12NOV08		16		25,252.80						
7301-102		Machine platform trial assembly & fitup	30	13NOV08*	06JAN09		16		119,740.80						
<b>74 - Machine Assembly Planning and Oversight</b>															
<b>Job: 7401 - TC Prep &amp; Mach Assy Planning-PERRY</b>															
<b>Oversight and Supervision</b>															
1802ORNLF		ORNLF Title III final machine assy	482*	26JAN09	03JAN11		0		381,381.71	ORNLEM =1670;ornldm=835 travel=12					
714.030		LOE Start of assy through thru completion	482*	26JAN09	03JAN11	LOE	0		1,024,421.59	Perry 1.0 fte Langella 1.0 fte					
714.031		Additional supervision for 2nd shift	217*	05MAR10	03JAN11	2	0		260,116.73	2nd shift supervision 1.0 fte					
7401ACPWR		Prior ac pwr work reclassified as gpp	356	01MAY07A	31MAY07A				-308,300.00						
714.020		LOE Prior to assy starting	356	01OCT07*	10MAR09		926		32,389.94						
714.025		Update Final Assembly Plan	45	03OCT08*	08DEC08		30		26,480.00						
7502-001		Test Cell 110/208voutlets GPP SCOPE TO COMPLETE	65	15AUG08*	14NOV08		44		0.00						

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
<b>75 - Test Cell and Basement Assembly Operations</b>															
<b>Job: 7501 - Construction Support Crew-PERRY</b>															
<b>General Assy Support</b>															
7501-06		Construction Support Crew for 2nd shift	217*	05MAR10	03JAN11	2	0		445,558.64	Tool Crib Control em/tb= (.75 fte) Crane Operator & support em/tb= (1.0 fte) ██████████ Forklift Operator & support em/tb= (1.0 fte)					
7501-05		Construction Support Crew during machine assy	504*	26JAN09	03JAN11		0		960,961.90	██████████ ██████████ Tool Crib C Crane Ope Forklift Op					
<b>Job: 7503 - Machine Assembly (station 6)-PERRY</b>															
7501-10		Fabricate/Assemble assembly structure	30	04DEC08	23JAN09	1	13		239,444.80	EM//EM =96hr ; EM//TB =960hr ; EM//SM =240hr ; 41=80\$K ;					
7501-10.1		Fab struct to go between assy sleds&FPA's	20	04DEC08	09JAN09	1	23		239,444.80	41=80; EM//EM=96 EM//SM=240EM//TB=960					
7501-10.2		Assemble 3 FPA support stands	15	12NOV08*	04DEC08	1	12		63,842.40	EM//EM=48 EM//SM=120 EM//TB=480					
7501-10.3		Assemble 3 VV spool piece support stands	10	05DEC08	18DEC08	1	12		42,561.60	EM//EM=32 EM//SM=80 EM//TB=320					
7501-10.4	2	Assemble machine base structure	10	19DEC08	12JAN09	1	12		42,561.60	EM//EM= 32 EM//SM=80 EM//TB=320					
7501-10.5		Assemble 3 FPA installation carts	10	13JAN09	26JAN09	1	12		42,561.60	EM//EM=32 EM//SM= 80 EM//TB=320					
7501-10.6		Fab 3 laser support poles	30	20NOV08*	13JAN09	1	70		73,108.80	41=24; EM//TB=480					
7501-10.7		Fab 3 concrete blocks for testing assy struct	12	14JAN09	29JAN09	1	70		44,288.32	41=18 ;EM//EM=20 EM//TB=192					
7503-010		Begin Assembly Activities	0	26JAN09*		1	3		0.00	▼					
7503-020		Install Permanent support base and columns	10	26JAN09	06FEB09	1	3		67,371.00	EA//EM =60hr ; EM//TB =480hr ; EM//SM =120hr ;					
7503-015		Install Temp Assembly Structure	15	09FEB09	27FEB09	1	3		95,763.60	EM//EM =72hr ; EM//SM =180hr ; EM//TB =720hr ;					
7503-060		Install Lower PF 4,5&6 into prelim position	1	02MAR09	02MAR09	1	3		4,814.40	EM//SM =16hr ; EM//TB =32hr ;					
7503-070		Install 3 Spool Pieces on fixt & test movement	10	03MAR09	16MAR09	1	3		51,510.80	EA//EM =40hr ; EM//TB =320hr ; EM//SM =80hr ; EM//TB =80hr ;					
7501-10.9		Install test cell metrology site monuments & chk	20	17MAR09	13APR09	1	3		85,123.20	Metrr=640;EM//EM=64 EM//TB=160					
7501-10.10		Test TC floor deflections with concrete block	15	14APR09	04MAY09	1	3		73,737.60	Metrr=120;EM//EM=48 EM//SM=120 EM					
7501-10.8		Exercise assy struc with concrete blocks & metro	20	05MAY09	02JUN09	2	3		109,528.00	EM//EM=80EM//SM=320 EM//TB=640					
7503-080A		FPA-1 Installation and assembly test	20	03JUN09	30JUN09	1	3		135,915.20	Metrr=320;EM//EM=80EM//SM=320 E					
7503-080		FPA-1 Installed on sleds	0		30JUN09	1	3		0.00	▼					
7501-11		Exercise assy struc w/FPA-1 before start of assy	40	01JUL09	26AUG09	1	3		135,915.20	EM//EM =80hr ; EM//TB =640hr ; EM//SM =320hr ; EM//TB =320hr ;					
7503-415.7		Measure vsl gaps to determ spool piece dimension	18	27AUG09	22SEP09	1	3		78,816.96	EA//EM =288hr ; mtrology =288hr ;					
7503-415.0		Spool piece installation test	20	23SEP09	20OCT09	1	3		139,146.96	41=45\$K ; EM//EM =12hr ;					
7503-416.1		Machine Flange A & B of Spool Piece 1	30	21OCT09	03DEC09	1	3		44,329.04	41=30\$K ; EM//EM =8hr ;					
7503-416.2		Machine Flange A & B of Spool Piece 2	30	04DEC09	26JAN10	1	3		44,329.04	41=30\$K ; EM//EM =8hr ;					
7503-416.3		Machine Flange A & B of Spool Piece 3	30	27JAN10	09MAR10	1	3		44,329.04	41=30\$K ; EM//EM =8hr ;					
7503-110A		FPA-2 Installation and assembly test	20	06OCT09	02NOV09	1	9		140,532.00	Metrr=320;EM//EM=80EM//SM-					
7503-110		FPA-2 Installed on sleds	0		02NOV09	1	9		0.00	▼					
7503-150A		FPA-3 Installation and assembly test	20	16NOV09	15DEC09	1	0		140,532.00	Metrr=320;EM//EM=80EM//S					
7503-150	2	FPA-3 Installed on sleds	0		15DEC09	1	0		0.00	▼					
7503-120		Test movement of FPA's incl position checks.	5	16DEC09	22DEC09	1	0		26,630.20	EA//EM =20hr ; EM//TB =160hr ; EM//SM =40hr ; EM//TB =40hr ;					

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
7503-400		Install inboard and outboard shims	6	04JAN10	11JAN10	1	0		95,147.05						41=36\$K ; EA//EM =20hr ; EM//EM =29hr ; EM//SM =72hr ; EM//TB =288hr ;
7503-402		Move all FPA's together, chk fitup,tack shims	6	12JAN10	19JAN10	1	0		46,323.37						EA//EM =20hr ; EM//EM =29hr ; EM//SM =72hr ; EM//TB =288hr ; metrology=32
7503-404		Weld inboard shims on mating flanges	6	20JAN10	27JAN10	1	0		43,595.05						EA//EM =20hr ; EM//EM =29hr ; EM//SM =72hr ; EM//TB =288hr ;
7503-406		Install TF coils at ends of each FPA	6	28JAN10	04FEB10	1	0		27,211.20						EM//TB =48hr ; EM//SM =48hr ; EM//TB =192hr ;
7503-410		Install spacer supports and spacers	2	05FEB10	08FEB10	1	0		7,706.24						EM//SM =16hr ; EM//TB =64hr ;
7503-412	2	Move FPA's & spacers together/chk fitup	6	09FEB10	16FEB10	1	0		25,847.04						EM//SM =48hr ; EM//TB =192hr ;
7503-414		Remove Spacers & Machine spacers to fit	4	17FEB10	22FEB10	1	0		5,456.64						EM//TB =64hr ;
7503-415		Re-install spacers	2	23FEB10	24FEB10	1	0		7,706.24						EM//SM =16hr ; EM//TB =64hr ;
7503-160		Position all FPA's / Spool Pieces @ MC Interface	6	25FEB10	04MAR10	1	0		31,956.24						EA//EM =24hr ; EM//TB =192hr ; EM//SM =48hr ; EM//TB =48hr ;
7503-090		Install local Platforms around FPA-1	2	05MAR10	08MAR10	2	0		15,412.48						EM//TB =128hr ; EM//SM =32hr ;
7503-130		Install local Platforms around FPA-2	2	09MAR10	10MAR10	2	0		15,412.48						EM//TB =128hr ; EM//SM =32hr ;
7503-190		Install local Platforms around FPA-3	2	11MAR10	12MAR10	2	0		15,412.48						EM//TB =128hr ; EM//SM =32hr ;
7503-415.5		MC Interface: meas holes/mark bushings f/drilling	3	05MAR10	09MAR10	1	0		11,559.36						EM//SM =24hr ; EM//TB =96hr ;
7503-415.6		drill eccentric custom holes in bushings	3	10MAR10	12MAR10	1	0		20,151.36						EM//SM =24hr ; EM//TB =96hr ; 41=6\$K ;
7503-416		Position Spool pieces and Bolt MC flanges	9	15MAR10	25MAR10	2	0		39,640.85						EM//EM =29hr ; EM//SM =72hr ; EM//TB =288hr ;
7503-417		Retorque all super nuts after 30 days	6	26APR10	03MAY10	2	0		79,281.70						EM//EM =29hr ; EM//SM =72hr ; EM//TB =288hr ;
7503-418		Raise permanent supports to take machine loads	8	26MAR10	06APR10	2	3		114,363.36						EM//TB =180hr ; EM//EM =72hr ; EM//SM =180hr ; EM//TB =720hr ;
7503-419		Remove temporary assy structure	1	07APR10	07APR10	2	3		11,559.36						EM//SM =24hr ; EM//TB =96hr ;
7503-419.1		Install/Level FPA's and spool piece supports	15	08APR10	28APR10	2	3		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	04MAY10	06MAY10	2	0		14,729.20						EA//EM =40hr ; EM//TB =40hr ; EM//TB =40hr ;
7503-420		Mate-up and Weld spacers onto vvsa	15	07MAY10	27MAY10	2	0		171,865.20						EM//TB =180hr ; EM//SM =240hr ; EM//TB =1,440hr ;
7503-422		Weld all six port 4's in place	15	28MAY10	18JUN10	2	0		91,810.80						EM//TB =60hr ; EM//SM =180hr ; EM//TB =720hr ;
7503-422.1		Install E-Beam mapping & diag equipt	5	21JUN10	25JUN10	2	0		45,376.40						EM//EM =40hr ; EM//SM =80hr ; EM//TB =320hr ;
7503-240		Install Vacuum pumping system	3	21JUN10	23JUN10	2	2		19,265.60						EM//SM =40hr ; EM//TB =160hr ;
7503-250	2	Begin Vac Vsl Pumpdown	0	28JUN10		2	0		0.00						***** PUMP DOWN OF VACUUM VESSEL DOE LEVEL 2 MILESTONE *****
7503-260		PTP Pumpdown & leak check VV	8	28JUN10	08JUL10	2	0		57,796.80						EM//SM =120hr ; EM//TB =480hr ;
7503-424		Install TF alignment & traction ring	4	09JUL10	14JUL10	2	0		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	15JUL10	21JUL10	2	0		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	22JUL10	27JUL10	2	0		40,467.27						EA//EM =13hr ; EM//TB =67hr ; EM//SM =67hr ; EM//TB =267hr ;
7503-430		Install MC structure insulation boots port 4's	5	28JUL10	03AUG10	2	0		38,531.20						EM//SM =80hr ; EM//TB =320hr ;
7503-431		Seal gaps MC shims,cooling tubes, for insul pour	10	04AUG10	17AUG10	2	0		77,062.40						EM//SM =160hr ; EM//TB =640hr ;
7503-432		Fill MCVVSA annulus with pourable aerogel insul	1	18AUG10	18AUG10	2	0		7,706.24						EM//SM =16hr ; EM//TB =64hr ;
7503-433.1		Install LN2 manifolds	5	19AUG10	25AUG10	2	16		38,531.20						EM//SM =80hr ; EM//TB =320hr ;
7503-434		Instl in-cryostat cabling for elect pwr to coils	8	19AUG10	30AUG10	2	0		52,172.80						EM//SM =80hr ; EM//TB =480hr ;

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmplt	Proposed Budgeted	Fiscal Year				
										FY07	FY08	FY09	FY10	FY11
7503-436		Connect cabling, and I&C to MC & TF Coils	8	31AUG10	10SEP10	2	0		52,172.80					
7503-439		Complete mag diag & machine I&C	5	13SEP10	17SEP10	2	0		49,779.20					
7503-438		Align guide mechanism for solenoid installation	1	20SEP10	20SEP10	2	0		7,562.76					
7503-444		Install solenoid support structure	1	21SEP10	21SEP10	2	0		6,913.33					
7503-440		Install solenoid assembly	1	22SEP10	22SEP10	2	0		6,913.33					
7503-442		Connect cabling, LN2 and I&C to solenoid assy	1	23SEP10	23SEP10	2	0		3,853.12					
7503-446		Install PF4L	1	24SEP10	24SEP10	2	0		3,853.12					
7503-448		Connect cabling, LN2 and I&C to PF4L	1	27SEP10	27SEP10	2	0		3,853.12					
7503-450		Adjust spring compression in solenoid sprt struc	1	28SEP10	28SEP10	2	0		3,853.12					
7503-451		Raise lower PF 5&6 coils into final position	3	29SEP10	01OCT10	2	0		28,179.60					
7503-452		Instl Upper PF 4, 5 & 6	3	04OCT10	06OCT10	2	0		28,811.28					
7503-330	2	Begin Cryostat Installation	0	07OCT10		2	0		0.00					
7503-454		Install cryostat base, vapor barrier port boots	5	07OCT10	13OCT10	2	0		39,841.60					
7503-456		Install elec pwr, LN2, & instr feedthrus	3	14OCT10	18OCT10	2	0		19,920.80					
7503-458	2	Integrated Electrical testing	5	19OCT10	25OCT10	2	0		53,997.60					
7503-460		Instl transition box, cabling, & connect to pwr sup	5	26OCT10	01NOV10	2	34		39,841.60					
7503-462		LN2 connections from coils to manifolds	5	26OCT10	01NOV10	2	8		39,841.60					
7503-464		Connect coil & VV instrumentation	5	26OCT10	01NOV10	2	0		39,841.60					
7503-466		Connect 150C bakeout	3	02NOV10	04NOV10	2	0		19,920.80					
7503-470		Install cryostat cooling syst & instrumentation	10	12NOV10	29NOV10	2	0		159,366.40					
7503-471		Install cryostat upper section, VB & port boots	5	30NOV10	06DEC10	2	0		39,841.60					
7503-472		Install midplane cryostat sections & port boots	8	07DEC10	16DEC10	2	0		59,762.40					
7503-473		Install cryostat circulation duct	3	17DEC10	21DEC10	2	0		19,920.80					
730.8200	2	PTP and Cool down	3	22DEC10	03JAN11	2	0		68,103.20					

EM//SM =80hr ; EM//TB =480hr ;  
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 ;

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BEGIN CRYOSTAT INSTALLATION  
DOE LEVEL 2 MILESTONE  
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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	26JAN09*	15JUN10		154		31,010.80
713.030	Tooling,assy fixtures,misc equipt	348	26JAN09*	15JUN10		154		84,863.97
713.040	General procurements	348	26JAN09*	15JUN10		154		63,647.97
713.050	Welding tools, materials & equipt	348	26JAN09*	15JUN10		154		113,151.95
713.060	Torque wrenches and multipliers	348	26JAN09*	15JUN10		154		119,883.90

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

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year					
										FY07	FY08	FY09	FY10	FY11	
<b>8 - Project Oversight and Support</b>															
<b>81 - Project Management and Control</b>															
<b>Job: 8101 - Project Management &amp; Control-NEILSON</b>															
<b>FY07 Rebaseline Exercise</b>															
ECP53RBX16		FY07 Rebaseline exercise	22*	01MAY07*	31MAY07		1,333		4,526.60	R///RM3 =20hr ;					
810.005		Project Management Office PPPL FY07 (LOE)	102*	01MAY07	24SEP07		1,253		278,793.18	Hutch =.85 fte rate ; Strykowski =.85 fte rate B///CB =.4 fte rate ; 35=3\$K ; 41=04\$K ; deputy proj cntrl=.25fte rate					
810.900		Project Management Office PPPL FY08 (LOE)	250*	01OCT07*	30SEP08		999		1,034,172.58	Hutch =.50 fte rate ; Strykowski =.85 fte rate Pam =.8 fte rate ; 35=10\$K ; 41=10\$K ; Proj mgr=.75 fte rate, deputy p&c=.5fte rate Constr Mgr= .5fte					
810.901		Project Management Office PPPL FY09 (SA LOE)	249*	01OCT08*	30SEP09		423		1,157,648.04	Hutch =.50 fte rate ; Strykowski =.85 fte rate Pam =.8 fte rate ; 35=10\$K ; 41=10\$K ; proj mgr=1.0 fte rate, deputy p&c=.5fte rate constr mgr=.5 fte					
810.909		Project Management Office PPPL FY10 (LOE)	248	01OCT09	30SEP10		423		1,074,462.05	Hutch =.25 fte ; Strykowski=.85 fte 35=06\$K ; Pam =.8 fte 41=08\$K ; proj mgr=1.0 fte rate, deputy p&c=.5fte rate constr mgr=.5 fte					
810.910		Project Management Office PPPL FY11 (LOE)	79*	01OCT10	31JAN11		423		299,398.44	Hutch =.25 fte ; Strykowski=.85 fte 35=04\$K ; Pam =.5 fte 41=03\$K ; proj mgr=1.0 fte rate, deputy p&c=.5fte rate					
<b>Job: 8102 - NCSX MIE Management ORNL-LYON</b>															
810.104X		Project Management Office ORNL FY07(LOE)	106*	01MAY07	28SEP07		1,249		60,420.00	ORNL81 =60\$ ;					
810.105X		Project Management Office ORNL FY08 (LOE)	248*	02OCT07*	29SEP08		1,000		159,000.00	ORNL81 =\$159k					
810.105Z		Project Management Office ORNL FY09 (LOE)	249	02OCT08*	01OCT09		423		160,000.00	ORNL81 =\$160k					
810.106X		Project Management Office ORNL FY10 (SA LOE)	247	02OCT09	30SEP10		423		101,000.00	ORNL81 =\$101k					
810.106Z		Project Management Office ORNL FY11 (SA LOE)	79*	01OCT10	31JAN11		423		18,960.00	ORNL81 =.24k.day					
<b>82 - Project Engineering</b>															
<b>Job: 8202 - Engr Mgmt &amp; Sys Eng Support-REIERSEN</b>															
<b>FY07 Rebaseline Exercise</b>															
ECP53RBX19		FY07 Rebaseline exercise	39*	01MAY07*	25JUN07		1,316		30,227.70	EA//EM =170hr ;					
820.04X		Engr Management FY07 (LOE)	103*	01MAY07	25SEP07		1,252		146,515.44	reiersen=50% loe ; heitzenroeder=50% loe					
820.04Y		Engr management (SA LOE)	827*	01OCT07*	01FEB11		422		531,578.18	heitzenroeder=50% loe travel=\$5					
820.04Z		RLM (WBS 13,15,17) (SA LOE)	106*	01MAY07*	28SEP07		1,249		157,738.81	reiersen=15% loe					
820.0004Z		RLM (WBS 13,15,17) (SA LOE)	747*	01OCT07*	30SEP10		502		114,466.70	heitzenroeder =					
820.004Z		Reqmnts mgt & design verification	106*	01MAY07*	28SEP07		1,249		14,224.80	reiersen=80 hours					
820.00004Z		Reqmnts mgt & design verification	827*	01OCT07*	01FEB11		422		148,448.71	reiersen=					

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year						
										FY07	FY08	FY09	FY10	FY11		
820-004Y		RLM (WBS 2,3 &6) (SA LOE)	747*	01OCT07*	30SEP10		502		148,616.69						Dudek=15% loc	
820.004X		RLM (fabrication) (SA LOE)	933*	01MAY07*	01FEB11		422		740,730.05						Dudek=6	
820.005		RLM (WBS 4 & 5) (SA LOE)	826*	02OCT07*	01FEB11		422		178,479.64						vonhalle=	
8205FY07		Systems Engineering Support document control	933*	01MAY07*	01FEB11		422		162,425.28						simmons	
8205FY08		Systems Engineering Support (SA LOE)	933*	01MAY07*	01FEB11		422		284,690.93						simmons such=10%	
<b>Job: 8203 - Design Integration-BROWN</b>																
8203FY07		Design Integration ,& metro support	933*	01MAY07*	01FEB11		422		982,736.76						brown=27 Morris=2	
8203FY08		CAD Support (SA LOE)	933*	01MAY07*	01FEB11		422		427,885.51						Brown =2	
<b>Job: 8204 - Systems Analysis-BROOKS</b>																
8204FY07		Systems Analysis FY07 Analysis for structure dsn	106*	01MAY07	28SEP07		1,249		56,899.20						fan=320hrs	
8204FY08		Systems Analysis, studies and tech assurance	932*	01MAY07*	31JAN11		423		1,100,587.67						Brooks=3 Fan =134 EA/EM=	
<b>Job: 8205 - Dimensional Control Coordin-ELLIS</b>																
METFY07R1	3	Dimensional control plans for station 2	65	01JUN07*	31AUG07		6		85,348.80						EA//EM =480hr ;	
METDCP-3	3	Dimensional control plans for station 3	30	04SEP07	15OCT07		111		28,916.00						EA//EM =160hr ;	
METDCP-5	3	Dimensional control plans for station 5	80	16OCT07	15FEB08		111		59,443.20						EA//EM =320hr ;	
METDCP-6	3	Dimensional control plans for station 6	80	18FEB08	09JUN08		111		89,164.80						EA//EM =480hr ;	
METFY08R		Support FPA Station 2	326*	24OCT07	19FEB09		4		89,911.08						ellis =240 hr ea/em=240hrs	
METFY08RX		Support FPA Station 3	318*	03MAR08	08JUN09		0		90,555.06						ellis =240 hr ea/em=240hr	
METFY09		Support FPA Station 5	260*	30OCT08	13NOV09		0		61,443.20						ellis =160hr ea//em=160hr	
METFY10		Support Final Machine Assy	482*	26JAN09	03JAN11		0		94,162.86						ellis =240 hr ea//em=240hr	
<b>Job: 8210 - FY07 Rebaseling tasks</b>																
<b>FY07 Rebaseline Exercise</b>																
ECP53RBX23		FY07 Rebaseline exercise	40	01MAY07*	26JUN07		1,315		9,235.20						EM//EM =60hr ;	
ECP53RBX25		FY07 Rebaseline exercise	22*	01MAY07*	31MAY07		1,333		9,966.00						EE//EM =60hr ;	
<b>Job: 8215 Plant Design</b>																
<b>FY07 Rebaseline Exercise</b>																
8210-07		Update plant model	42*	01AUG07*	28SEP07		1,249		15,339.20						EM//EM =40hr ; EA//SB =80hr ;	
8210-08		Plant Design FY08	826	01OCT07*	31JAN11		423		105,719.02						EM//EM = EM//SM =	
<b>85 - Integrated Systems Testing</b>																
<b>Job: 8501 - Integrated Systems Testing-GENTILE</b>																
<b>Startup Documentation</b>																
8501-105		ESH-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 ;	



Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	Fiscal Year				
										FY07	FY08	FY09	FY10	FY11
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		185		48,236.80	EM//EM =160hr ; EM//SM =160hr ;				
8501-129		NCSX-XX, Administrative Control of Procedures	30	24NOV08	15JAN09		184		24,118.40	EM//EM =80hr ; EM//SM =80hr ;				
8501-133		OP-AD-39, Conduct of Operations	10	16JAN09	29JAN09		184		6,029.60	EM//EM =20hr ; EM//SM =20hr ;				
8501-137		OP-AD-56, Cntrl Equip & Syst Status (chain of c	10	23JAN09	05FEB09		184		6,029.60	EM//EM =20hr ; EM//SM =20hr ;				
8501-141		OP-AD-24, Cntrl Workplace Cleanliness D-Site Exp	10	30JAN09	12FEB09		184		6,029.60	EM//EM =20hr ; EM//SM =20hr ;				
8501-145		OP-AD-31, D- Site Fire Watch Requirements	10	06FEB09	19FEB09		184		6,029.60	EM//EM =20hr ; EM//SM =20hr ;				
8501-149		OP-AD-03, Experimental Proposals for NCSX	10	13FEB09	26FEB09		184		6,029.60	EM//EM =20hr ; EM//SM =20hr ;				
8501-153		OP-AD-117 Operation of the NCSX Access System	10	20FEB09	05MAR09		184		6,029.60	EM//EM =20hr ; EM//SM =20hr ;				
8501-157		NCSX-OP-XX, Prep of Exper Areas for Machine Ops	30	27FEB09	09APR09		184		18,088.80	EM//EM =60hr ; EM//SM =60hr ;				
8501-161		NCSX-OP-XX, Operation of the NCSX TVPS	30	20MAR09	30APR09		184		18,088.80	EM//EM =60hr ; EM//SM =60hr ;				
8501-165		NCSX-OP-XX, Testing NCSX HIS Safe for Access	30	10APR09	21MAY09		184		18,088.80	EM//EM =60hr ; EM//SM =60hr ;				
8501-169		NCSX-OP-XX, Testing the NCSX Emergency Stop Syst	30	01MAY09	12JUN09		184		18,088.80	EM//EM =60hr ; EM//SM =60hr ;				
8501-173		NCSX-OP-XX, NCSX Training Matrix	30	22MAY09	06JUL09		184		18,088.80	EM//EM =60hr ; EM//SM =60hr ;				
8501-177		NCSX-OP-XX, NCSX Ops Guide -Startup and Shutdown	30	15JUN09	27JUL09		184		18,088.80	EM//EM =60hr ; EM//SM =60hr ;				
8501-181		NCSX-OP-XX, HPP Daily Operations	20	14JUL09	10AUG09		184		12,059.20	EM//EM =40hr ; EM//SM =40hr ;				
8501-185		NCSX-OP-XX, ACP & PDP Trip Control Settings	20	28JUL09	24AUG09		184		12,059.20	EM//EM =40hr ; EM//SM =40hr ;				
8501-189		NCSX-OP-G-XX Preparation for NCSX pumpdown	30	11AUG09	22SEP09		184		18,088.80	EM//EM =60hr ; EM//SM =60hr ;				
8501-193		NCSX-OP-XX Helium H/C System Operations Procdur	30	01SEP09	13OCT09		184		18,273.30	EM//EM =60hr ; EM//SM =60hr ;				
8501-197		NCSX-OP-G-XX Daily Hi-Pot Test Vacuum Vessel	30	23SEP09	03NOV09		184		18,580.80	EM//EM =60hr ; EM//SM =60hr ;				
8501-201		ISTP-NCSX-01 Coil EnergizationTests	40	14OCT09	10DEC09		184		24,938.40	EM//EM =80hr ; EM//SM =80hr ;				
8501-205		OP-ECS-245 FCPC Daily Startup/Shutdown Procedure	20	25NOV09	05JAN10		184		12,469.20	EM//EM =40hr ; EM//SM =40hr ;				
8501-209		NCSX-XX Leak Checking of NCSX	20	11DEC09	19JAN10		184		12,469.20	EM//EM =40hr ; EM//SM =40hr ;				
920.000		Startup Personnel	76	01OCT10	26JAN11	1	426		418,829.00	EM//EM =340hr ; EA//EM =100hr ; EM//SB =680 ; EM//TB =300hr ; EE//EM =300hr ; EE//SM =300hr ; EC//EM =300hr ; R//RM2 =400hr ;				
8501-102		Punch list & CSIS & HIS PTP's complete,	5	01OCT10*	07OCT10	1	5		0.00					
8501-103		PTP's complete for ECS,HCS,vac pmppg	5	08OCT10	14OCT10	1	5		0.00					
8501-104		ACC review and ORA	5	15OCT10	21OCT10	1	5		0.00					
730.1250	2	PSO Operational Readiness Assessment	0		21OCT10	1	5		0.00	***** COMPLETE OPERATIONAL READINESS ASSESSMENT DOE LEVEL 2 MILESTONE *****				
8501-301		Configure for Startup ISTP	5	26OCT10	01NOV10	1	3		0.00					
8501-305	2	Coil Testing at room temp	5	05NOV10	11NOV10	1	0		0.00					
8501-106		Coil testing @ cryo temp, Pump-down VV	5	04JAN11	10JAN11	1	0		0.00					
8501-107		Combined field testing, Make 1st Plasma	5	11JAN11	17JAN11	1	0		0.00					
8501-108		Vent VV, Config for & instl e-beam mapping	5	18JAN11	24JAN11	1	0		0.00					

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted	FY				
										FY07	FY08	FY09	FY10	FY11
8501-306		E-beam mapping	5	25JAN11	31JAN11	1	0		0.00					
8501-110	1	NCSX Startup Complete	0		31JAN11	1	0		0.00					↓
730.9000	1	CD-4	0		23DEC11*	1	0		0.00					

### Allocations

#### 99 - PPPL Allocations

##### Job: 8998 - Allocations-STRYKOWSKY

99.07		PPPL Allocations FY07	LOE	106*	01MAY07*	28SEP07		1,249		146,987.80					
99.08		PPPL Allocations FY08	LOE	249*	01OCT07*	29SEP08		1,000		384,384.00					
99.081		PPPL Allocations FY09	LOE	247*	01OCT08*	28SEP09		752		406,232.00					
99.09		PPPL Allocations FY10	SA LOE	248*	01OCT09*	30SEP10		502		430,800.00					
99.10		PPPL Allocations FY10		80*	01OCT10*	01FEB11		422		88,320.00					

### Contingency

#### Contingency

##### Contingency-Project

C07		Contingency FY07		19*	04SEP07*	28SEP07		1,249		407,530.00					
C07EVERSON		Balance of everson encumbrance fy07 (BA)		19*	04SEP07*	28SEP07		1,249		144,000.00					
C08		Contingency FY08		249*	01OCT07*	29SEP08		1,000		1,508,570.00					
C09		Contingency FY09		247*	01OCT08*	28SEP09		752		3,116,130.00					
C10		Contingency FY10		246*	01OCT09*	28SEP10		504		4,503,800.00					
C11		Contingency FY11		248*	01OCT10*	28SEP11		254		2,300,000.00					

### Actual Cost

#### 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				9,845,060.00					

Activity ID	MILE-stones (level 2 & 3)	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	% cmlpt	Proposed Budgeted					
										FY07	FY08	FY09	FY10	FY11
<b>BA Funding Profile</b>														
<b>Funding</b>														
<b>Funding</b>														
<b>Funding'</b>														
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					