

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost						
								FY07	FY08	FY09	FY10	FY11	FY12
<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. Spts (log # M1091) (complet	197	01MAY07A	01MAY07A			0.00						
<b>VV Personnel Access Port &amp; Lateral spts</b>													
124-110	Issue req,Bid & Award VV NB port cover	25	01OCT09*	04NOV09		310	0.00						
124-120	Award VV NB port cover	0		04NOV09*		310	0.00						
124-130	VV NB port cover Fabrication	40	05NOV09	13JAN10		310	83,786.32					41=58.51\$K ;	
<b>VV Local I&amp;C</b>													
1204-101	Drawings Signed -Local I&C	0		04SEP07*		265	0.00						
1204-105	Issue req,Bid & Award -Local I&C	25	05SEP07	09OCT07		265	0.00						
1204-109	Award -Local I&C	0		09OCT07		265	0.00						
1204-113	Deliver -Local I&C	40	10OCT07	06DEC07		265	35,263.68					41=27\$K ;	
<b>Thermal Insulation</b>													
123-040	Issue req,Bid & Award insul boots	25	01SEP09*	06OCT09		297	0.00						
123-045	Award Insulation Boots	0		06OCT09*		297	0.00						
123-050	Fabricate& Deliver Insul Boots	130	07OCT09	20APR10		297	79,834.00					41=56\$K ;	
122-035	Issue req,Bid & Award Port Thermal Insulation	25	27FEB08	01APR08		294	0.00						
122-041	Award Port Thermal Insulation	0		01APR08*		294	0.00						
122-051	Deliver Port Thermal Insulation	40	02APR08	28MAY08		294	32,700.00					41=25\$K ;	
122-030	Issue req,Bid & Award Pourable Insulation	25	27AUG09	01OCT09		405	0.00						
122-036.9	Award Pourable Insulation	0		01OCT09*		405	0.00						
122-037	Deliver Pourable Insulation	40	02OCT09	30NOV09		405	114,560.00					41=80\$K ;	
<b>Heater Tape for Port Stub</b>													
1204-121	Drawings Signed Heater Tape for port stubs	0		04SEP07*		291	0.00						
1204-125	Issue req,Bid & Award -Heater Tape for port stub	25	05SEP07	09OCT07		291	0.00						
1204-129	Award Heater Tape for port stubs	0		09OCT07		291	0.00						
1204-130	Deliver Heater Tape for port stubs	40	10OCT07	06DEC07		291	20,143.20					41=15\$K ;	

Run Date 14JUN07 08:11

- Proposed Baseline
- zJune 4th plan
- Progress Bar
- Critical Activity

ETCZ

NCSX Proposed OECM  
**BASELINE**  
 June 14, 2007 am

Sheet 1 of 53

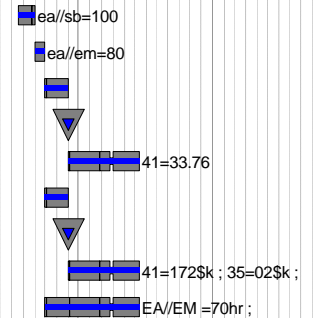
Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year							
								FY07	FY08	FY09	FY10	FY11	FY12		
<b>T/C and Heater Tape Leads</b>															
1204-145	Issue req,Bid & Award-T/C and Heater Tape Leads	25	27JUN07	01AUG07		331	0.00								
1204-149	Award T/C and Heater Tape Leads	0		01AUG07		331	0.00								
1204-153	Deliver T/C and Heater Tape Leads	40	02AUG07	27SEP07		331	36,621.20								
<b>Flux loop junction boxes and spacer templates</b>															
1204-173M	Material Delivery (desifn/fab in job 3101)	35	20JUN07	08AUG07		338	12,275.12								
<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	177*	01MAY07	18JAN08		726	164,246.27								
<b>TF Fabrication Contract</b>															
1361C-101	Fab, Test & Deliver Coil #1	28*	29MAY07*	06JUL07		598	27,210.00								
1361C-102	Fab, Test & Deliver Coil #2	31*	01JUN07*	16JUL07		592	43,590.00								
1361C-103	Fab, Test & Deliver Coil #3	44*	01JUN07*	02AUG07		592	47,210.00								
1361C-104	Fab, Test & Deliver Coil #4	1	13AUG07*	13AUG07		585	47,210.00								
1361C-105	Fab, Test & Deliver Coil #5	1	24AUG07*	24AUG07		633	47,210.00								
1361C-106	Fab, Test & Deliver Coil #6	1	04SEP07*	04SEP07		627	47,210.00								
1361C-107	Fab, Test & Deliver Coil #7	1	17SEP07*	17SEP07		631	47,210.00								
1361C-108	Fab, Test & Deliver Coil #8	1	27SEP07*	27SEP07		623	47,210.00								
1361C-109	Fab, Test & Deliver Coil #9	1	08OCT07*	08OCT07		682	48,390.25								
1361C-110	Fab, Test & Deliver Coil #10	1	18OCT07*	18OCT07		674	48,390.25								
1361C-111	Fab, Test & Deliver Coil #11	1	29OCT07*	29OCT07		675	48,390.25								
1361C-112	Fab, Test & Deliver Coil #12	1	12NOV07*	12NOV07		665	48,390.25								
1361C-113	Fab, Test & Deliver Coil #13	1	22NOV07*	22NOV07		758	48,390.25								
1361C-114	Fab, Test & Deliver Coil #14	1	03DEC07*	03DEC07		753	48,390.25								
1361C-115	Fab, Test & Deliver Coil #15	1	13DEC07*	13DEC07		745	48,400.50								
1361C-116	Fab, Test & Deliver Coil #16	1	02JAN08*	02JAN08		738	48,400.50								
1361C-117	Fab, Test & Deliver Coil #17	1	07JAN08*	07JAN08		735	48,400.50								
1361C-118	Fab, Test & Deliver Coil #18	1	17JAN08*	17JAN08		727	48,400.50								
1351-195X	ALL TF COILS DELIVERED	0	21JAN08	18JAN08		726	0.00								



Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	FY07												FY08												FY09												FY10												FY11												FY12											
141-038.1	PF Conductor Delivery	65	16SEP08	17DEC08		236	158,093.76																									41=114.4\$K ;																																															
141-039	Bid & Award Materials	25	11AUG08	15SEP08		256	8,916.48																									EA/EM =48hr ;																																															
141-040	PF Materials Awarded	0		15SEP08*		256	0.00																									▼																																															
1352-100	Materials Delivery PF 4,5,6	45	16SEP08	17NOV08		256	186,579.41																									41=136\$K ;																																															
1352-121	Design/Fab Tooling for PF 5	80	29JUL08	18NOV08		225	283,863.11																									48=273.9\$K ;																																															
1352-122	Design/Fab Tooling for PF 6	80	29JUL08	18NOV08		270	331,743.64																									48=320.1\$K ;																																															
1352-120	Tooling for PF 4	55	26AUG08	11NOV08		260	74,821.09																									48=72\$K ;																																															
1352-150	Fabricate/Divr PF 4	60	18DEC08	20MAR09		236	42,250.20																									48=40 ;																																															
1352-165	Fabricate/Divr PF 5 Lower	45	19NOV08	02FEB09		225	74,148.05																									48=70.55 ;																																															
1352-145	Fabricate/Divr PF 6 Lower	45	03FEB09	06APR09		225	86,654.95																									48=82.45 ;																																															
1352-166	Fabricate/Divr PF 5 Upper	25	07APR09	11MAY09		542	74,148.05																									48=70.55 ;																																															
1352-146	Fabricate/Divr PF 6 Upper	25	12MAY09	16JUN09		542	86,654.95																									48=82.45 ;																																															
141-031	Title III engr WBS 132	333	23MAY08	22SEP09		756	112,324.32																									EA/EM =592hr ;																																															
141-900	PF4 Lower/Upper Inspection & Test	10	23MAR09	03APR09		236	7,122.60																									EA/EM =20hr ; EM/TB =40hr ;																																															
141-901	PF5 Lower Inspection & Test	10	03FEB09	16FEB09		270	3,561.30																									EA/EM =10hr ; EM/TB =20hr ;																																															
141-902	PF6 Lower Inspection & Test	10	07APR09	20APR09		225	3,561.30																									EA/EM =10hr ; EM/TB =20hr ;																																															
141-905	PF5 Upper Inspection & Test	10	12MAY09	26MAY09		567	3,561.30																									EA/EM =10hr ; EM/TB =20hr ;																																															
141-906	PF6 Upper Inspection & Test	10	17JUN09	30JUN09		542	3,561.30																									EA/EM =10hr ; EM/TB =20hr ;																																															
141-903	Refurbish PF 1a	20	18FEB10*	17MAR10		330	6,820.80																									EM/TB =80hr ;																																															
141-904	Assemble PF1a and CS structure	30	18MAR10	28APR10		330	21,550.00																									EM/TB =160hr ; EA/EM =40hr ;																																															

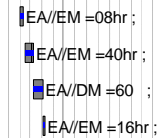
**Job: 1353 - CS Structure Procurement-DAHLGREN**

CS Support Structure							
1353-001	Design PF1a upper to lower interconnect bus	30	20APR09	01JUN09		330	12,342.00
1353-002	Engr & analysis of bus	20	02JUN09	29JUN09		330	15,296.80
1353-003	Bid & Award PF1a bus	45	30JUN09	01SEP09		330	0.00
1353-004	Award PF1a bus	0		01SEP09*		330	0.00
1353-005	Fab & Deliver PF1a bus	130	02SEP09	17MAR10		330	48,162.54
163-035	Bid & Award CS Support Struct	45	30JUN09	01SEP09		330	0.00
163-036.9	Award CS Support Structure	0		01SEP09*		330	0.00
163-037	CS Support Structure Procurement/Fab	130	02SEP09	17MAR10		330	247,857.24
163-015	Title III design CS sprt struc	175*	30JUN09	17MAR10		330	13,670.70



**Job: 1354 - Trim Coil Design & Procurement-KALISH**

Trim Coils							
1303-101	Complete Trim Coil SRD	10	01JUN09*	12JUN09		337	1,529.68
1303-103	Analysis	15	15JUN09*	06JUL09		337	7,648.40
1303-105	FDR Dwgs	20	07JUL09*	03AUG09		337	11,472.60
1303-107	Prepare for FDR	5	04AUG09*	10AUG09		337	3,059.36



Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
1303-110	Trim Coil FDR	1	11AUG09*	11AUG09		337	1,529.68						
1303-112	Prepare Procurement Coil Spec	5	12AUG09*	18AUG09		352	4,589.04						
1303-114	Disposition FDR Chits	5	12AUG09*	18AUG09		352	1,529.68						
1303-116	Detail Fabrication Drawings	20	12AUG09*	09SEP09		337	12,237.44						
184-035	Bid & Award Ext Trim Coils	45	10SEP09	11NOV09		337	4,693.04						
184-036	Award External Trim Coils	0	12NOV09	11NOV09		337	0.00						
184-037	External Trim Coil Procurement	88	12NOV09	29MAR10		337	48,258.40						
184-015	Title III WBS 133 Rxt Trim Coils	88	12NOV09	29MAR10		337	26,116.86						
<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	20	02JUN08*	27JUN08		238	11,145.60						
1355-103	Prepare Installation Procedures	10	30JUN08	14JUL08		238	3,715.20						
1355-105	FDR	1	15JUL08	15JUL08		238	1,486.08						
1355-107	Prep req,bid,award T/C and wire	20	16JUL08	12AUG08		238	2,229.12						
1355-109	Deliver of T/C and wire	40	13AUG08	08OCT08		238	13,213.50						
1355-111	Installation on PF4,5,6 Coils upon delivery	20	24MAR09	20APR09		225	9,745.80						
1355-112	Installation on TF Coils upon delivery	45	09OCT08*	12DEC08		238	29,046.19						
1355-113	Installation on PF1a Coils upon delivery	3	15MAR10	17MAR10		330	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		255	7,786.00						
<b>Blanket thermal insulation</b>													
1416-304	Revise assembly models/drawings	5	01JUN07*	07JUN07		238	12,457.60						
1416-305	Review and approve insulation concept	5	08JUN07*	14JUN07		238	6,449.70						
1416-3198	Report Results	10	15JUN07	28JUN07		238	7,651.28						
<b>Top level assy models/drawings</b>													
1416-503	Complete models/drawings of power cable connect	80	01AUG07*	21NOV07		405	19,030.68						
1416-504	Complete models/drawings of protective covers	80	01AUG07*	21NOV07		1,211	19,030.68						
1416-507	Update, review and approve coil asm spec	21	01MAY07	30MAY07		230	12,457.60						
1416-508	Complete drawing rev to leads, terminal asm (ECN	21	01MAY07	30MAY07		1,334	12,457.60						
1416-506	Check and promote top-level models/drawings	80	01AUG07	21NOV07		1,211	12,687.12						

EA/EM =08hr ;  
EA/EM =24hr ;  
EA/EM =08hr ;  
EA/EM =64hr ;  
EA/EM =24hr ;  
41=34\$k ;  
EA/EM =116hr ; 35=03\$k ;

EA/EM =60hr ;  
EA/EM =20hr ;  
EA/EM =08hr ;  
ea/em=12  
41=10\$k ;  
EA/EM =10hr ; EM/TB =95hr ;  
EA/EM =29hr ; EM/TB =285hr ;  
EA/EM =1hr ; EM/TB =16hr ;

ORNLEM =50hr ;

ORNLEM =80hr ;  
ORNLEM =30hr ; EA/EM =10hr ;  
ornlem=40; ea/em=8

ORNLEM =120hr ;  
ORNLEM =120hr ;  
ORNLEM =80hr ;  
ORNLEM =80hr ;  
ORNLEM =80hr ;

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year								
								FY07	FY08	FY09	FY10	FY11	FY12			
<b>Analysis and closeout documentation</b>																
1416-601	Prepare EM and structural analysis of leads	27	01OCT07*	06NOV07		1,167	74,905.92									
1416-602	Design memo KF structural analysis	15	07NOV07	27NOV07		1,167	15,528.96									
1416-603	Update, review and approve FMECA	5	28NOV07	06DEC07		1,167	5,176.32									
1416-604	Finalize draft documents - materials, eddy curre	5	07DEC07	13DEC07		1,167	2,588.16									
1416-605	Prepare Type-ABC closeout FDR	15	14DEC07	14JAN08		1,167	11,646.72									
1416-606	Resolve FDR comments	15	15JAN08	04FEB08		1,167	11,646.72									
<b>Type C Design Closeout</b>																
1403-47C	Perform cool-down/warmup analysis	26	01OCT07*	05NOV07		674	7,430.40									
<b>Job: 1408 - MC Winding Supplies-CHRZANOWSKI</b>																
1408-1	Procure Batt insulation	30	23MAY07*	05JUL07		234	10,208.00									
1408-2	Epoxy (existing order)	187	23MAY07*	25FEB08		360	58,166.95									
1408-3	Misc and safety supplies (\$7k/mo.)	250	23MAY07*	22MAY08		359	108,904.32									
1408-4	Starin Gages and Thermocouples	30	23MAY07*	05JUL07		234	76,560.00									
1408-5	Epoxy/glass for mold shell	164	23MAY07*	23JAN08		361	12,904.39									
1408-6	VPI clean manifold contract	210	23MAY07*	27MAR08		357	12,942.86									
1408-7	Misc tech shop support	250	23MAY07*	22MAY08		359	50,461.70									
<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									
MCWF-571	B6-MTM - machining/inspection	213*	31JUL06A	06JUN07		458	0.00									
MCWF-581	B6-Receive at PPPL	0		07JUN07		458	0.00									
MCWF-004	PPPL Oversight	28	01MAY07	08JUN07		1,360	7,112.40									
MCWF-301	C6-MTM - machining/inspection	276*	03APR06A	08MAY07		460	0.00									
MCWF-311	C6-Receive at PPPL	0		09MAY07		460	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		364	48,955.65									
P3-061	Receive B5, Prep& Instl Cladding	18	01JUN07*	26JUN07		382	48,878.96									
P1-151	Receive A6, Prep& Instl Cladding	18	27JUN07*	23JUL07		382	48,878.96									
P2-031	Receive C6, Prep& Instl Cladding	18	24JUL07*	16AUG07		409	48,878.96									





Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year											
								FY07	FY08	FY09	FY10	FY11	FY12						
P2-051C	Final Clamps & Warm Test (Station1) C6	9	29JAN08	08FEB08		406	26,027.60												
P2-171C	Final Clamps & Warm Test (Station1) B6	9	17MAR08	27MAR08		357	26,027.60												
<b>LOE Oversight &amp; Supervision</b>																			
145XSPRV-1	Winding Engineering oversight and supervision	250	01MAY07	30APR08		1,105	709,164.04												
<b>Job: 1459 - Mod Coil Fabr.Punch List-CHRZANOWSKI</b>																			
<b>Punchlist Tech shop/RESA</b>																			
PLTS-A1	Grinding & Drill Holes -A1	15	01MAY07	21MAY07		251	22,700.24												
PLTS-A2	Grinding & Drill Holes -A2	15	22MAY07	12JUN07		251	22,700.24												
PLTS-B1	Grinding & Drill Holes -B1	15	13JUN07	03JUL07		251	22,700.24												
PLTS-C1	Grinding & Drill Holes -C1	15	05JUL07	25JUL07		251	22,700.24												
PLTS-B2	Grinding & Drill Holes -B2	15	26JUL07	15AUG07		251	22,700.24												
PLTS-C2	Grinding & Drill Holes -C2	15	16AUG07	06SEP07		251	22,700.24												
PLTS-A3	Grinding & Drill Holes -A3	15	07SEP07	27SEP07		251	22,700.24												
PLTS-A4	Grinding & Drill Holes -A4	15	28SEP07	18OCT07		251	23,645.07												
PLTS-B3	Grinding & Drill Holes -B3	15	19OCT07	08NOV07		251	23,712.56												
PLTS-C3	Grinding & Drill Holes -C3	15	09NOV07	03DEC07		251	23,712.56												
PLTS-B4	Grinding & Drill Holes -B4	15	04DEC07	02JAN08		268	23,712.56												
PLTS-C4	Grinding & Drill Holes -C4	15	03JAN08	23JAN08		268	23,712.56												
PLTS-A5	Grinding & Drill Holes -A5	15	24JAN08	13FEB08		325	23,712.56												
PLTS-A6	Grinding & Drill Holes -A6	15	14FEB08	05MAR08		325	23,712.56												
PLTS-B5	Grinding & Drill Holes -B5	15	06MAR08	26MAR08		325	23,712.56												
PLTS-C5	Grinding & Drill Holes -C5	15	27MAR08	16APR08		325	23,712.56												
PLTS-B6	Grinding & Drill Holes -B6	15	17APR08	07MAY08		343	23,712.56												
PLTS-C6	Grinding & Drill Holes -C6	15	08MAY08	29MAY08		343	23,712.56												
<b>Punchlist- Coil Technicians</b>																			
PLCT-A1	Insul,measure,TC,SG other punch list-A1	15	06JUL07	26JUL07		234	19,862.71												
PLCT-A2	Insul,measure,TC,SG other punch list-A2	12	27JUL07	13AUG07		234	15,798.14												
PLCT-B1	Insul,measure,TC,SG other punch list-B1	12	14AUG07	29AUG07		234	15,798.14												
PLCT-C1	Insul,measure,TC,SG other punch list-C1	15	30AUG07	20SEP07		234	19,862.71												
PLCT-B2	Insul,measure,TC,SG other punch list-B2	12	21SEP07	08OCT07		234	16,150.40												
PLCT-C2	Insul,measure,TC,SG other punch list-C2	15	09OCT07	29OCT07		234	20,748.49												
PLCT-A3	Insul,measure,TC,SG other punch list-A3	14	30OCT07	16NOV07		234	19,306.51												
PLCT-A4	Insul,measure,TC,SG other punch list-A4	14	19NOV07	10DEC07		234	19,306.51												
PLCT-B3	Insul,measure,TC,SG other punch list-B3	12	11DEC07	04JAN08		234	16,502.66												
PLCT-C3	Insul,measure,TC,SG other punch list-C3	15	07JAN08	25JAN08		234	20,748.49												
PLCT-B4	Insul,measure,TC,SG other punch list-B4	12	28JAN08	12FEB08		254	16,502.66												



Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
PLCT-C4	Insul,measure,TC,SG other punch list-C4	16	13FEB08	05MAR08		254	22,110.36						
PLCT-A5	Insul,measure,TC,SG other punch list-A5	12	06MAR08	21MAR08		319	16,502.66						
PLCT-A6	Insul,measure,TC,SG other punch list-A6	12	24MAR08	08APR08		319	16,502.66						
PLCT-B5	Insul,measure,TC,SG other punch list-B5	12	09APR08	24APR08		319	16,502.66						
PLCT-C5	Insul,measure,TC,SG other punch list-C5	15	25APR08	15MAY08		319	20,748.49						
PLCT-B6	Insul,measure,TC,SG other punch list-B6	12	16MAY08	03JUN08		340	16,502.66						
PLCT-C6	Insul,measure,TC,SG other punch list-C6	12	04JUN08	19JUN08		340	16,422.55						
<b>Job: 1421 - Mod Coil Interface Design-WILLIAMSON</b>													
<b>Outboard Interface</b>													
IH4-020	Prepare outboard shim dwgs and release	33	01MAY07	15JUN07		232	6,228.80						
INTRF-045	FDR prep outboard shims	10	18JUN07	29JUN07		232	6,228.80						
INTRF-046	FDR outboard shims	0		29JUN07		232	0.00						
<b>Outboard Interface-Bolted Joint Tests-Tension</b>													
1421-3067	Procure 2 studs f/joint test.Use existing part	19	01MAY07	25MAY07		228	6,188.48						
1421-3075	Setup test fixture &perform JHA & pre-job brief	2	29MAY07	30MAY07		228	2,458.40						
1421-3077	Meas joint deflect vs preload & loss of preload	3	31MAY07	04JUN07		228	5,534.64						
1421-3079	Measure joint deflec & preload v. temp @80K	3	05JUN07	07JUN07		228	5,534.64						
1421-3084	Measure joint deflection&preload v. cooldown cyc	3	08JUN07	12JUN07		228	5,534.64						
1421-3087	Perform pullout tests for tapped holes	3	13JUN07	15JUN07		228	5,534.64						
1421-3081	Meas joint deflect & preload v. time (days) at R	20	18JUN07	16JUL07		228	36,897.60						
1421-3090	Document&conduct review of test results	5	17JUL07	23JUL07		228	6,156.80						
<b>Outboard Interface-Bolted Joint Tests-Shear</b>													
1421-3112B	Procure/fab parts for test&initial assembly	60*	01MAY07	25JUL07		1,248	18,916.80						
1421-3115B	Assemble & test	31	26JUL07	07SEP07		1,248	27,982.80						
1421-3119B	Document test results	16	10SEP07	01OCT07		1,248	6,243.90						
<b>Outboard Interface-Friction</b>													
1429-3026	COF cyclic testing	23*	01MAY07	01JUN07		232	31,554.00						
1429-3031	Implications of press.-dependent COF for shim ds	1	04JUN07	04JUN07		232	0.00						
1429-3036	Document and conduct peer review of test results	9	05JUN07	15JUN07		232	6,156.80						
<b>Inboard Interface-Design</b>													
IH1-001	Coil to coil analysis	26	01MAY07	06JUN07		226	93,283.20						
1421-3125	Determine geometry&location of high COF shims&pl	5	07JUN07	13JUN07		226	12,457.60						
1421-3127	Structural analyses to performance rqmts for bol	5	14JUN07	20JUN07		233	24,915.20						
1421-3131	PDR prep for requirements, design,&development	5	14JUN07	20JUN07		233	6,228.80						
1421-3132	PDR to review requirements, design,&development	0		20JUN07		233	0.00						

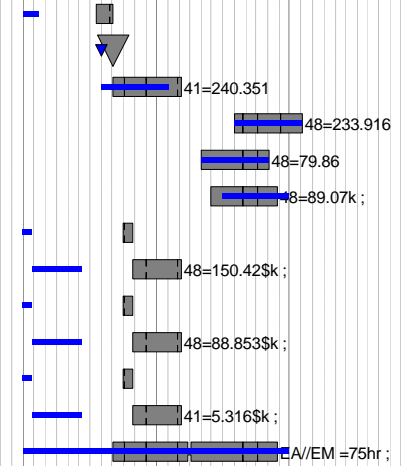
Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year							
								FY07	FY08	FY09	FY10	FY11	FY12		
<b>Inboard Interface-AB/BC/AA</b>															
INTRF-050	Prepare Shim fabrication drawings (ORNL)	12*	14JUN07	29JUN07		226	24,915.20	■	ornlem=160						
INTRF-054	FDR prep AB/BC/AA inboard shims	6*	02JUL07	10JUL07		226	6,156.80	■	em/em=40						
INTRF-055	FDR AB/BC/AA inboard shims	0		10JUL07		226	0.00	▼							
<b>Inboard Interface-CC</b>															
IH1-000	ESTABLISH CONCEPT	36	01MAY07	20JUN07		216	84,088.80	■	ORNLEM =540hr ;						
IH1-0000	PEER REVIEW OF JOINT CONCEPT	7	21JUN07	29JUN07		216	12,457.60	■	ORNLEM =80hr ;						
1421-3140	Prep C-C shim drawings and release	6	02JUL07	10JUL07		216	24,915.20	■	ORNLEM =160hr ;						
1421-3142	FDR Prep for C-C shims	10	11JUL07	24JUL07		216	6,228.80	■	ORNLEM =40hr ;						
1421-3144	FDR C-C Shims	0		24JUL07		216	0.00	▼							
<b>Welded Joint Tests-Procedure</b>															
INTRF-035	PPPL Determine shim material	31	01MAY07	13JUN07		226	7,112.40	■	ea//em=40						
INTRF-001	PPPL buy SS plate for weld trials	26	01MAY07	06JUN07		221	40,787.36	■	M&S=31 em/em=8						
INTRF-005	Weld distortion trials at PPPL on SS plate	10	07JUN07	20JUN07		221	8,966.60	■	em//em=40; em//tb=20;41=1						
INTRF-025	ORNL build plywood mockup of flange	26	01MAY07	06JUN07		221	40,363.20	■	ornl41=30; ornlem=60						
INTRF-030	ORNL verify weld access	10	07JUN07	20JUN07		221	26,908.80	■	ornlem=40 ornl41=20						
INTRF-010	Develop Weld Geometry Procedure	7	21JUN07	29JUN07		221	7,112.40	■	ea//em=40						
<b>Welded Joint Tests-Tests</b>															
INTRF-015	Weld trials on two MCWF's at PPPL	20	02JUL07	30JUL07		221	59,603.60	■	em//em=80;em//tb=600; 41=1k						
INTRF-020	Document results and update weld procedure	2	31JUL07	01AUG07		221	14,224.80	■	ea//em=80						
<b>Overall MC Interface</b>															
INTRF-040	Update Analysis (ORNL)	36	01MAY07	20JUN07		221	37,372.80	■	ornlem=240						
1421-3134	Develop specs & dwgs for station 2 &3 assy	15	21JUN07	12JUL07		221	68,516.80	■	ORNLEM =440hr ;						
1421-3135	FDR Prep	14	13JUL07	01AUG07		221	6,228.80	■	ORNLEM =40hr ;						
1421-3136	Conduct MC interface FDR	0		01AUG07		221	0.00	▼							
1421-3138	Resolve issues, release assembly spec&drawings	5	02AUG07	08AUG07		297	37,372.80	■	ORNLEM =240hr ;						
INTRF-100	Misc travel, meetings,reporting,presentations	130	01MAY07	01NOV07		1,225	165,393.94	■	35=3k; orn135=9k ornlem=807;em/em=170						
<b>Job: 1431 - Mod. Coil Interface Hardware-DUDEK</b>															
<b>Bladders</b>															
1421-3024	Prep Req, Bid,& Award Bladders	20	01MAY07	29MAY07		370	0.00	■							
1421-3025	Deliver bladders	7*	30MAY07	07JUN07		370	16,396.60	■	41=13\$k ;						
1421-3028	Bladders available for FPA	0		07JUN07		370	0.00	▼							
<b>Bushings</b>															
1421-3105	Prep Req, Bid,& Award Bushings	15	01MAY07	21MAY07		218	0.00	■							

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year																	
								FY07	FY08	FY09	FY10	FY11	FY12												
1421-3106	Deliver Bushings Material	45	22MAY07	25JUL07		218	10,271.80	41=08\$K ;																	
1421-3107	PPPL Machine bushings Bushings	68	26JUL07	30OCT07		218	43,065.52	EMT/TB =554 ;																	
1421-3108	Bushings available for first coil-to-coil fitup	0	31OCT07			218	0.00	▼																	
1421-3109	All Bushings delivered	0		30OCT07		218	0.00	▼																	
<b>Shims</b>																									
1429-3059	Prep Req, Bid,Award Shim Stock	15	14JUN07	05JUL07		229	0.00	■																	
1429-3060	Deliver Shim Stock	35	06JUL07	23AUG07		229	77,274.56	■ 41=60.556\$K ;																	
1429-3061	Prep Req, Bid,Award Grinding contract	15	25JUL07	14AUG07		216	0.00	■																	
1429-3062	Grind Shim Stock	35	15AUG07	03OCT07		216	7,160.96	■ 41=05.6\$K ;																	
1429-3063	Pre Req, Bid, Award Cutting Contract	15	25JUL07	14AUG07		231	0.00	■																	
1429-3064	Machine shop cut shim stock to size	35	06SEP07	24OCT07		216	38,227.40	■ EMT/TB =448 ; 41=2.4k																	
1429-3065	Prep Req, Bid, Award Alumina Application	15	25JUL07	14AUG07		246	0.00	■																	
1429-3066	Apply Alumina to Shims	37	27SEP07	16NOV07		216	50,683.29	■ 41=39\$K ;																	
1429-3069	Shims Req'd for 1st 3 pack MC assy	0	11OCT07			216	0.00	▼																	
1429-3070	Shims Req'd for 2nd 3 pack MC assy	0	18OCT07			236	0.00	▼																	
1429-3071	Shims Req'd for 3rd 3 pack MC assy	0	25OCT07			287	0.00	▼																	
1429-3072	Shims Req'd for 4th 3 pack MC assy	0	01NOV07			330	0.00	▼																	
1429-3073	Shims Req'd for 5th 3 pack MC assy	0	08NOV07			440	0.00	▼																	
1429-3074	Shims Req'd for 6th 3 pack MC assy	0	15NOV07			481	0.00	▼																	
<b>Studs,Washers,Nuts</b>																									
1421-3060	Deliver Stud Kit (PE007330) (for 1st 3 pack only)	57*	01MAY07A	20JUL07		340	98,992.08	■ 41=78\$K ;																	
1421-3061	Stud kit available for 1st 3 pack MC assy	0		20JUL07		340	0.00	▼																	
1421-3062	Re-order balance of stud kits	65	02AUG07	01NOV07		221	408,475.32	■ 41=312\$K ;																	
1421-3063	Stud kits available for balance of MC assy	0		01NOV07		221	0.00	▼																	
1421-3065	Deliver Superbolts (PE007332)	22*	01MAY07A	31MAY07		375	157,905.00	■ 41=123.75k ;																	
1421-3070	Order Add'l stud kits for c-c joint&weld clmp	15	01OCT07*	19OCT07		320	0.00	■																	
1421-3072	Deliver Add'l stud kits for c-c joint&weld clmp	30	22OCT07	04DEC07		320	59,827.92	■ 41=45.738k ;																	
1421-3080	Purchase G-11 shims and machine for C-C inboard	65	01OCT07*	10JAN08		720	5,728.80	■ 41=1.44k ;em/tb=48																	
1421-3066	Super bolts available for FPA	0		31MAY07		375	0.00	▼																	
<b>15 - Coil Structures</b>																									
<b>Job: 1501 - Coil Structures Design-DAHLGREN</b>																									
1501-521	Complete Preliminary Stress analysis	11*	01MAY07	15MAY07		401	12,446.70	EA/EM =70hr ;																	
1501-522	Prelim CAD models & Dwgs	30	01MAY07	12JUN07		379	28,449.60	■ ea/dm=160																	
1501-525	PDR Prep	3	13JUN07	15JUN07		379	3,556.20	EA/EM =10hr ; EA/DM =10 ;																	
1501-525P	PDR	1	18JUN07*	18JUN07		379	1,422.48	EA/EM =04hr ; EA/DM =04 ;																	

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
1501-533	Detail CAD Drawings,BOM	40	19JUN07	14AUG07		379	60,455.40	EA/EM =20hr ; EA/DM =320 ;					
1501-533F	Integrated Stress Analysis	40	19JUN07	14AUG07		379	42,674.40	EA/EM =240hr ;					
1501-537	FDR Prep	3	15AUG07	17AUG07		379	2,667.15	EA/EM =10hr ; EA/DM =05 ;					
1501-541	FDR	1	20AUG07	20AUG07		379	1,422.48	EA/EM =04hr ; EA/DM =04 ;					
1501-545	Resolve Chits	20	21AUG07	18SEP07		379	7,112.40	EA/EM =20hr ; EA/DM =20 ;					
1501-549	Update C.S.Support Design	10	21AUG07	04SEP07		384	10,668.60	EA/EM =20hr ; EA/DM =40 ;					
1501-550	Peer Review Updated C.S.Design	3	05SEP07	07SEP07		384	1,422.48	EA/EM =04hr ; EA/DM =04 ;					
1501-554	Resolve Chits from peer review	2	10SEP07	11SEP07		384	2,844.96	EA/EM =08hr ; EA/DM =08 ;					
1501-558	Prepare requisition for Coil Structure & CSS h/w	10	19SEP07	02OCT07		379	717.60	EA/EM =04hr ;					
1501-562	Prepare Specs for Coil Structure & CSS h/w	10	12SEP07	25SEP07		384	1,778.10	EA/EM =10hr ;					
ECP53RBX09	FY07 Rebaseline exercise	22*	01MAY07*	31MAY07		1,333	7,112.40	ORNLEM =40hr ;					

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

1501-245	Prep Spec,Solicit Bids, and Evaluate Bids	30	21APR08	02JUN08		245	0.00
162-036.9	Award Coil Support Structure	0		02JUN08*		245	0.00
162-037	Fabricate TF/MCWF mounting Components	130	03JUN08	05DEC08		245	321,946.98
162-038	Fabricate PF Mounting components	130	01MAY09*	03NOV09		448	246,972.74
162-039	Fabricate Final TF Assy components Components	130	02FEB09*	04AUG09		458	83,932.86
162-040	Fabricate Machine/base support interface	130	26FEB09*	28AUG09		440	93,612.57
162-050	Prep req, bid and award G11/Teflon parts	20	01JUL08*	29JUL08		245	0.00
162-051	Deliver G11/Teflon parts	90	30JUL08	05DEC08		245	156,179.41
162-052	Prep req, bid and award Inconel hardware	20	01JUL08*	29JUL08		245	0.00
162-053	Deliver Inconel hardware	90	30JUL08	05DEC08		245	92,251.97
162-055	Prep req, bid and award Belleville Washers	20	01JUL08*	29JUL08		245	0.00
162-057	Deliver Belleville Washers	90	30JUL08	05DEC08		245	7,200.56
162-031	Title III engr WBS 151	311	03JUN08	28AUG09		440	14,158.00



**16 - Coil Services**

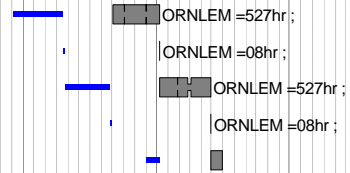
**Job: 1601 - Coil Services Design-GORANSON**

**FY07 Rebaseline Exercise**

ECP53RBX08	FY07 Rebaseline exercise	22*	01MAY07*	31MAY07		1,333	6,228.80	ORNLEM =40hr ;
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**161 - LN2 Distribution**

191-001	Title I design WBS 161 LN2 manifolds&piping	90	02JUN08*	07OCT08		253	85,588.61
191-002	PDR WBS 161 LN2 manifolds&piping	1	08OCT08*	08OCT08		253	1,387.28
191-011	Title II design WBS 161 LN2 manifolds&piping	90	09OCT08	24FEB09		253	91,387.07
191-012	FDR WBS 161 LN2 manifolds&piping	1	25FEB09	25FEB09		253	1,387.28
191-037	Prep Req,Bid,Award-manifolds,hoses,valves etc	25	26FEB09*	01APR09		440	0.00



Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
191-038	Delivery of-manifolds,hoses,valves etc	40	02APR09*	28MAY09		440	81,878.17						
191-041	Assemble manifolds and piping	110	04MAR10*	06AUG10		253	62,996.91						
191-031	Title III engr WBS 161	362	26FEB09	06AUG10		253	31,122.55						
<b>162 - Electrical Leads</b>													
132-001	Title I design WBS 162 Coil leads	155	01AUG08*	19MAR09		235	155,611.45						
132-002	PDR WBS 162 Coil leads	1	20MAR09*	20MAR09		235	1,387.28						
132-011	Title II design WBS 162 Coil leads	155	23MAR09	28OCT09		336	159,192.56						
132-012	FDR WBS 162 Coil leads	1	29OCT09	29OCT09		336	1,434.48						
132-015	Title III design WBS 162 Coil leads	99	30OCT09*	31MAR10		408	19,724.10						
132-037	Prep Req,Bid,Award Lead hardware and cables	25	30OCT09	07DEC09		336	0.00						
132-038	Deliver Lead hardware and cables	65	08DEC09*	18MAR10		336	118,068.40						
132-047	Prep Req,Bid,Award Material for transition box	25	30OCT09*	07DEC09		402	0.00						
132-048	Deliver Material for Transition Boxes	40	08DEC09*	11FEB10		402	9,909.44						
132-049	Assemble Transition boxes (6)	40	12FEB10*	08APR10		402	20,462.40						
<b>163 - Coil Protection System</b>													
163.001	Design Coil protection(input to WBS 4 & 5)	65	01OCT08*	12JAN09		342	38,150.20						
<b>17 - Cryostat and Base Support Structure</b>													
<b>Job: 1702 - Base Support Struct Design-DAHLGREN</b>													
1702-510	Base support structure prel. design & analysis	40	01OCT07*	23NOV07		348	74,675.52						
1702-515	Conduct PDR	1	26NOV07	26NOV07		348	743.04						
1702-520	Final design. Assy dwgs, fab dwgs, BOMs,specs/SO	40	27NOV07	01FEB08		348	74,675.52						
1702-525	FDR	1	04FEB08	04FEB08		348	743.04						
1702-530	Resolve chits, issue dwgs for fab,issue requisit	20	05FEB08	03MAR08		348	12,631.68						
<b>Job: 1752 - Base Support Proc-DAHLGREN</b>													
<b>172 - Base Support Structure</b>													
161-036.8	Bid and award base support materials	25	02SEP08*	06OCT08		221	0.00						
161-036.9	Deliver base support materials	45	07OCT08	10DEC08		221	41,910.00						
161-037	PPPL assemble structure	65	11DEC08*	20MAR09		221	21,274.68						
161-038	Title III	261	04MAR08*	19MAR09		886	8,277.26						
<b>Job: 1701 - Cryostat Design-GETTLEFINGER</b>													
1701-100	Cryostat- Conceptual Design	107	03OCT08*	13MAR09		240	15,888.00						
1701-101	Cryostat- Preliminary Design	70	23MAR09	29JUN09		235	73,446.84						
1701-102	Cryostat- Stress analysis	43	29APR09*	29JUN09		235	38,242.00						

41=59\$  
EM/TB=492hr; EM/EM=128hr;  
ORNLEM=176hr;

ORNLEM=914hr;  
ORNLEM=08hr;  
ORNLEM=914hr;  
ORNLEM=08hr;  
ORNLEM=110hr;  
41=82\$;  
41=07\$;  
EM/TB=240hr;

ORNLEM=220hr;

EA/EM=178hr; EA/DM=224;  
EA/EM=04hr;  
EA/EM=178hr; EA/DM=224;  
EA/EM=04hr;  
ea/em=36; ea/dm=32

41=30\$;  
EMT/TB=258;  
ea/em=44

EM/EM=96  
EM/EM=144hr; EA/SB=402hr;  
EA/EM=200







Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
1803-5.9	Procure materials and fixture (2 stations)	65	02JAN08	01APR08		306	94,071.36	41=71.92\$k ;					
<b>6.00-Final Machine Assembly</b>													
1803-6.1	Complete Stage 6 support models	50	03DEC07*	19FEB08		357	28,778.40	EA/SB =240					
1803-6.2	Complete platform models	30	20FEB08	01APR08		357	9,592.80	EA/SB =80					
1803-6.3	Structural Analysis	30	03DEC07*	22JAN08		407	22,291.20	fan =120hr ;					
1803-6.4	PDR	0		01APR08		357	0.00	EA/SB =160					
1803-6.5	Complete drawing package	40	02APR08	28MAY08		357	19,185.60	Brown=120hr ;					
1803-6.6	FDR	0		04JUN08		357	0.00	41=81.48\$k ;					
1803-6.7	Revise drawings per FDR input and release for Fa	5	05JUN08	11JUN08		357	0.00						
1803-6.9	Design followup and prelim analysis	82	03DEC07*	03APR08		400	22,291.20						
1803-6.8	Procure materials and fixture	65	01OCT08*	12JAN09		280	113,827.56						
<b>Job: 1806 - FP Assembly specs and drawings-COLE</b>													
<b>1.00-VV Prep Station</b>													
1803-609	Detail dwgs-spool piece	50	06NOV08	27JAN09		458	10,405.20	ORNLEM =120hr ;					
<b>Station 2-Modular Coil Sub- Assembly</b>													
1803-201	Station 2 Assembly Specification	60	31MAY07*	23AUG07		230	12,457.60	ORNLEM =80hr ;					
1803-205	Station 2 Assembly Drawings	65	01MAY07*	01AUG07		226	13,200.00	ORNLEM =160hr ;					
<b>Station 3-Modular Coil to VVSA Assembly</b>													
1803-301	Station 3 Assembly Specification	60	24AUG07	16NOV07		230	25,478.93	ORNLEM =160hr ;					
1803-305	Station 3 Assembly Drawings	80	02AUG07	22NOV07		226	13,287.36	ORNLEM =160hr ;					
<b>Station 5-Final Field Period Assembly</b>													
1803-501	Station 5 Assembly Specification	90	02JAN08*	06MAY08		261	12,940.80	ORNLEM =80hr ;					
1803-505	Station 5 Assembly Drawings	90	02JAN08*	06MAY08		261	20,068.80	ORNLEM =240hr ;					
1803-509	Field period Assy Dwgs	90	02JAN08*	06MAY08		261	13,379.20	ORNLEM =160hr ;					
1803-611	Detail dwgs-welding ports	90	02JAN08*	06MAY08		261	13,379.20	ORNLEM =160hr ;					
<b>6.00-Final Machine Assembly</b>													
1803-601	Station 6 Assembly Specification	160	28MAY08*	21JAN09		218	60,120.90	ORNLEM =360hr ;					
1803-605	Station 6 Assembly Drawings	160	28MAY08*	21JAN09		218	27,203.36	ORNLEM =320hr ;					
1803-613	Detail dwgs-man access port	160	28MAY08*	21JAN09		218	6,800.84	ORNLEM =80hr ;					
1803-010	Models,design reviews	430	01MAY07*	23JAN09		925	85,478.58	ORNLEM =320;omldm=400					
<b>Job: 1802 - FP Assy Oversight&amp;Support-VIOLA</b>													
<b>Station 2-Modular Coil Sub- Assembly</b>													
R1802-207	Procedures written & approved	14	24AUG07	13SEP07		286	0.00	Viola					

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
R1802-209	JHA completed	6	14SEP07	21SEP07		286	0.00						
R1802-211	Training needs identified & released	6	24SEP07	01OCT07		286	0.00						
R1802-213	ACC review completed	2	02OCT07	03OCT07		286	0.00						
R1802-215	Pre-job brief completed	1	04OCT07	04OCT07		286	0.00						
R1802-217	Station 2 operational	1	05OCT07	05OCT07		286	0.00						
<b>Station 3-Modular Coil to VVSA Assembly</b>													
R1802-307	Procedures written & approved	10	23NOV07	10DEC07		226	0.00						
R1802-309	JHA completed	6	11DEC07	18DEC07		226	0.00						
R1802-311	Training needs identified & released	6	19DEC07	04JAN08		226	0.00						
R1802-313	ACC review completed	6	07JAN08	14JAN08		226	0.00						
R1802-315	Pre-job brief completed	6	15JAN08	22JAN08		226	0.00						
<b>Station 5-Final Field Period Assembly</b>													
R1802-507	Procedures written & approved	14	29MAY08	17JUN08		246	0.00						
R1802-509	JHA completed	6	18JUN08	25JUN08		246	0.00						
R1802-519	Fixtures installed	6	26JUN08	03JUL08		246	0.00						
R1802-511	Training needs identified & released	6	07JUL08	14JUL08		246	0.00						
R1802-513	ACC review completed	7	15JUL08	23JUL08		246	0.00						
R1802-515	Pre-job brief completed	7	24JUL08	01AUG08		246	0.00						
<b>Oversight and Supervision</b>													
1802ORNLO2	ORNL Title III field period assy station 2	378*	26JUL07	04FEB09		266	151,174.39						
1802ORNLO3	ORNL Title III field period assy station 3	327*	23JAN08	11MAY09		245	116,736.83						
1802ORNLO5	ORNL Title III field period assy station 5	307*	04AUG08	23OCT09		238	120,049.97						
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	248	01OCT08*	29SEP09		751	165,014.23						
R1802-004S	Metrology Engr Super FY09 2nd shft	57*	10JUL09*	29SEP09	2	751	37,928.42						
R1802-005	FPA Management FY07	106*	01MAY07*	28SEP07		1,249	117,941.68						
R1802-007	FPA Management FY08	250*	01OCT07*	30SEP08		999	277,523.54						
R1802-008	FPA Management FY09	248	01OCT08*	29SEP09		751	285,653.00						
R1802-009	Title III field period assy FY07 ORNL	106*	01MAY07*	28SEP07		1,249	43,757.32						
R1802-011	Title III field period assy FY08 ORNL	250*	01OCT07*	30SEP08		999	181,913.12						
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 FY08	77	01OCT08*	28JAN09		922	47,508.21						
R1810-098	Station 3 complete	0		11MAY09	2	849	0.00						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost						
								FY07	FY08	FY09	FY10	FY11	FY12
1802MAY	May cost incr	20	01MAY07*	29MAY07		1,335	15,000.00						
<b>Job:1810-Field Period Assy -Station 1,2,3 VIOLA</b>													
<b>General F.P. Assy support</b>													
R1801-004S	LOE Crane support, fixture setupfor FY09 2nd sh	57*	10JUL09*	29SEP09	2	751	38,917.82						EM/TB =471hr ;
R1810-001	LOE Crane support, fixture setupfor FY07	106*	01MAY07*	28SEP07		1,249	66,183.47						EM/TB =863hr ;
R1810-003	LOE Crane support, fixture setupfor FY08	250*	01OCT07*	30SEP08		999	165,923.83						EM/TB =2,071hr ;
R1810-004	LOE Crane support, fixture setupfor FY09	248	01OCT08*	29SEP09		751	169,326.66						EM/TB =2053hr ;
R1810-005	LOE Field Supervision for FY07	106*	01MAY07*	28SEP07		1,249	98,014.08						EE//SM =719hr ;
R1810-007	LOE Field Supervision for FY08	250*	01OCT07*	30SEP08		999	245,765.14						EE//SM =1,726hr ;
R1810-008	LOE Field Supervision for FY09	248	01OCT08*	29SEP09		751	252,962.56						EE//SM =1726hr ;
R1810-008S	LOE Field Supervision for FY09 2nd shft	57*	10JUL09*	29SEP09	2	751	57,642.05						EE//SM =393hr ;
R1810-009	LOE Metrology sprt FY07	106*	01MAY07*	28SEP07		1,249	234,598.95						EM//EM =1,078hr ; EM//TB =719hr ;
R1810-011	LOE Metrology sprt FY08	250*	01OCT07*	30SEP08		999	771,108.00						EM//EM =2,589hr ; EM//TB =1,726hr ;
R1810-012	LOE Metrology sprt FY09/10	276	01OCT08*	06NOV09		723	331,810.05						EM//EM =2569hr ; EM//TB =1726hr ;
R1810-013	Misc M&S FY07	106*	01MAY07*	28SEP07		1,249	19,140.00						41=15\$K ;
R1810-015	Misc M&S FY08	250*	01OCT07*	30SEP08		999	47,088.00						41=36\$K ;
R1810-016	Misc M&S FY09	248	01OCT08*	29SEP09		751	37,719.00						41=27\$K ;
R1810-099	Station 5 complete	0		23OCT09	2	733	0.00						EM//EM =590hr ; EM//TB =1393hr ;
<b>Station 1-VV Prep (hard surface components) FP#1</b>													
R1810-1105	Weld cooling/htg risers	16	01JUN07*	22JUN07	1	303	27,092.80						EM//TB =320hr ; 41=02\$K ;
R1810-1107	Verify Instl of H/C lines,headers,manifolds	5	25JUN07	29JUN07	1	303	7,669.00						EM//TB =100hr ;
R1810-1108	Perform final acceptance testing (H/C flow test)	5	02JUL07	09JUL07	1	303	12,773.00						EM//TB =100hr ; 41=04\$K ;
R1810-1112	Trim seal plates	2	10JUL07	11JUL07	1	303	3,067.60						EM//TB =40hr ;
R1810-1109	Loop termination & verification	18	07DEC07	10JAN08	1	265	28,839.60						EM//TB =360hr ;
R1810-1110	Install Final Internal&Ext monuments & meas	4	11JAN08	16JAN08	1	265	6,408.80						EM//TB =80hr ;
R1810-1111	Final Scan	4	25JAN08	30JAN08	1	259	6,408.80						EM//TB =80hr ;
R1810-1114	Install heater tape on removable ports	10	31JAN08	13FEB08	1	259	16,022.00						EM//TB =200hr ;
R1810-1113	Prepare &transfer completed VV to holding area	2	14FEB08	15FEB08	1	259	3,204.40						EM//TB =40hr ;
<b>Station 1- VV Prep (hrd surf cmpntsFP#2</b>													
R1810-1203	Misc Hardware	84*	01JUN07*	28SEP07		1,249	2,552.00						41=02\$K ;
R1810-1205	Install local I&C (incl thermocouples)	5	01MAY07	07MAY07	1	358	7,669.00						EM//TB =100hr ;
R1810-1207	Verify installation of local I&C	2	08MAY07	09MAY07	1	358	3,067.60						EM//TB =40hr ;
R1810-1209	Install cooling/htg lines to vac vsl	15	01NOV07*	21NOV07	1	259	24,033.00						EM//TB =300hr ;
R1810-1211	Weld cooling/htg risers	16	22NOV07	17DEC07	1	259	18,638.00						EM//TB =200hr ; 41=02\$K ;
R1810-1213	Verify Instl of H/C lines,headers,manifolds	5	18FEB08	22FEB08	1	322	8,011.00						EM//TB =100hr ;

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
R1810-1208	Perform final acceptance testing (H/C flow test)	5	25FEB08	29FEB08	1	322	13,243.00						
R1810-1212	Trim seal plates	2	03MAR08	04MAR08	1	322	3,204.40						
R1810-1215	Loop termination & verification	18	05MAR08	28MAR08	1	322	28,839.60						
R1810-1216	Install Final Internal&Ext monuments & meas	4	31MAR08	03APR08	1	322	6,408.80						
R1810-1217	Final Scan	4	04APR08	09APR08	1	322	6,408.80						
R1810-1214	Install heater tape on removable ports	10	10APR08	23APR08	1	322	16,022.00						
R1810-1219	Prepare& transfer completed VV to holding area	2	24APR08	25APR08	1	322	3,204.40						
<b>Station 1- VV Prep (hrd surf cmpntsFP#3</b>													
R1810-1303	Misc Hardware	427	15MAY07*	03FEB09		918	2,635.38						
R1810-1304	Layout diag & coolant paths on vessel	12	12JUL07*	27JUL07	1	303	18,405.60						
R1810-1305	Install heater tape on vertical ports	7	01OCT07*	09OCT07	1	259	11,215.40						
R1810-1314	Install heater tape on removable ports	10	10OCT07	23OCT07	1	259	16,022.00						
R1810-1311	Wind magnetic diagnostic sensors	14	18DEC07	15JAN08	1	259	22,430.80						
R1810-1312	Trim seal plates	2	24OCT07	25OCT07	1	259	3,204.40						
R1810-1307	Verify installation of heater tapes	1	26OCT07	26OCT07	1	259	1,602.20						
R1810-1309	Attach studs for coolant lines	3	29OCT07	31OCT07	1	259	4,806.60						
R1810-1313	Install precision magnetic diagnostic sensors	3	16JAN08	18JAN08	1	259	4,806.60						
R1810-1315	Verify installation magnetic diagnostic sensors	4	21JAN08	24JAN08	1	259	6,408.80						
R1810-1317	Install local I&C (incl thermocouples)	5	01OCT08*	07OCT08	1	286	8,246.00						
R1810-1319	Verify installation of local I&C	2	08OCT08	09OCT08	1	286	3,298.40						
R1810-1321	Install cooling/htg lines to vac vsl	15	10OCT08	30OCT08	1	286	24,738.00						
R1810-1323	Weld cooling/htg risers	16	31OCT08	21NOV08	1	286	29,181.20						
R1810-1325	Verify Instl of H/C lines,headers,manifolds	5	24NOV08	02DEC08	1	286	8,246.00						
R1810-1308	Perform final acceptance testing (H/C flow test)	5	03DEC08	09DEC08	1	286	13,834.00						
R1810-1327	Loop termination & verification	18	10DEC08	13JAN09	1	286	29,685.60						
R1810-1328	Install Final Internal&Ext monuments & meas	4	14JAN09	19JAN09	1	286	6,596.80						
R1810-1329	Final Scan	4	20JAN09	23JAN09	1	286	6,596.80						
R1810-1331	Prepare & transfer completed VV to holding area	2	26JAN09	27JAN09	1	286	3,298.40						
<b>Station 1-Spool pieces (3) (spacers)</b>													
R1810-1S03	Attachdiagnostics, studs and coolant lines	17	28JAN09*	19FEB09	1	458	28,036.40						
R1810-1S04	Install Final Internal&Ext monuments & meas	2	20FEB09	23FEB09	1	458	3,298.40						
<b>Station 2 Trials &amp; Development</b>													
R1810-2003	Trial tensioning test on prototype	3	01JUN07*	05JUN07	1	342	6,895.60						
R1810-2005	Trial bushing and shim test on prototype	12	01JUN07*	18JUN07	1	333	20,957.60						
R1810-2009	Perform trial x-y-z alignments on A1-A2.	7	01JUN07*	11JUN07	1	330	13,288.60						
R1810-2010	Perform developmental trials on A1-A2.	30	12JUN07*	24JUL07	1	330	48,566.00						















Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost								
								FY07	FY08	FY09	FY10	FY11	FY12		
<b>Tack Weld Inboard Welded hims</b>															
S21-8.01	Tack weld inboard shims	2	18JAN08	21JAN08		221	3,204.40								
<b>Install Trim Coil</b>															
S21-9.01	Install trim coil	6	22JAN08	29JAN08		221	9,613.20								
<b>Complete Local Service &amp; interface details</b>															
S21-10.01	Install all wing support bladders	2	30JAN08	31JAN08		227	3,204.40								
S21-10.02	Make local service runs/connections	8	30JAN08	08FEB08		221	12,817.60								
S21-10.03	Inject stycast in all shim spaces	1	30JAN08	30JAN08		228	1,602.20								
<b>Final Measurements/Transfer to Holding Area</b>															
DOE-1	Notify DOE of scheduled station 3 lifts	0		21DEC07	1	221	0.00		▼						
DOE-2	DOE review lift procedures	30	02JAN08	12FEB08	1	221	0.00		■						
DOE-3	DOE approval of scheduled station 3 lifts	0		12FEB08	1	221	0.00		▼						
S21-11.03	Measure bolt length on all tension fasteners	0	13FEB08	12FEB08		221	0.00								
S21-11.04	Mark part for identification	0	13FEB08	12FEB08		221	0.00								
S21-11.05	Install lift support beams	2	11FEB08	12FEB08		221	3,204.40								
S21-11.06	Remove from stand & measure weight of assy	1	13FEB08	13FEB08		221	1,602.20								
S21-11.07	Move A1-B1-C1 to holding area.	0	14FEB08	13FEB08		221	0.00								
<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	09NOV07	09NOV07		216	1,602.20								
S22-6.02	Align to the conical seats locking into a min of	1	12NOV07	12NOV07		216	0.00								
S22-6.03	Measure monuments on fixture and on the walls.	2	13NOV07	14NOV07		216	0.00								
S22-6.04	Place alumina grind inboard weld shims on coil.	2	15NOV07	16NOV07		216	3,204.40								
S22-6.05	Lower the Type-B coil onto the Type-A coil.	1	19NOV07	19NOV07		216	1,602.20								
S22-6.06	Meas monuments on A coil. Jack to within .002"	1	20NOV07	20NOV07		216	0.00								
S22-6.07	Perform the X-Y positioning of the B coil.	1	21NOV07	21NOV07		216	0.00								
S22-6.08	Install studs, supernuts, torque to 50% of final	2	22NOV07	23NOV07		216	3,204.40								
S22-6.09	"wiggle" test Tighten bolt and recheck.	1	26NOV07	26NOV07		216	1,602.20								
S22-6.1	Meas tooling balls on both coils. max devi .007"	5	27NOV07	05DEC07		216	0.00								
S22-6.11	adjust shims locally. Re-torque all studs to 50%	3	06DEC07	10DEC07		216	4,806.60								
S22-6.12	Install bushing.	2	11DEC07	12DEC07		216	2,403.30								
S22-6.13	Complete tightening of flange bolts to 100%.	1	13DEC07	13DEC07		216	1,602.20								
S22-6.14	Measure the tooling balls on both coils.	3	14DEC07	18DEC07		216	0.00								
S22-6.15	Scan the "B" flange of Type-B coil	1	19DEC07	19DEC07		216	1,602.20								
<b>AB - C Assembly</b>															
S22-7.01	"A/B" assy "A" coil dwn, 40deg fixt.Obtain fiduc	2	20DEC07	21DEC07		216	3,204.40								
S22-7.02	Align to the conical seats locking into min of 8	1	02JAN08	02JAN08		216	0.00								
S22-7.03	Measure monuments on fixture and walls.	2	03JAN08	04JAN08		216	0.00								
S22-7.04	Place alumin grind inboard weld shims on coil.	2	07JAN08	08JAN08		216	3,204.40								
S22-7.05	Lower the Type-C coil onto the Type-B coil.	1	09JAN08	09JAN08		216	1,602.20								

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year							
								FY07	FY08	FY09	FY10	FY11	FY12		
S22-7.06	Meas monuments on A coil for displacements.	1	10JAN08	10JAN08		216	0.00								
S22-7.07	Perform the X-Y positioning of the coil.	1	11JAN08	11JAN08		216	1,602.20								
S22-7.08	Install studs, supernuts, torque to 50% of fina	2	14JAN08	15JAN08		216	3,204.40								
S22-7.09	"wiggle" test Tighten bolt and recheck.	1	16JAN08	16JAN08		216	1,602.20								
S22-7.1	Measure the tooling balls on all coils.	5	17JAN08	23JAN08		216	0.00								
S22-7.11	Install bushing. Replace nut and tighten to 50%	1	24JAN08	24JAN08		216	2,403.30								
S22-7.12	Complete tightening of flange bolts to 100%.	1	25JAN08	25JAN08		216	1,602.20								
S22-7.13	Measure the tooling balls on both coils.	4	28JAN08	31JAN08		216	0.00								
<b>Tack Weld Inboard Welded hims</b>															
S22-8.01	Tack weld all inboard shims to one flange	1	01FEB08	01FEB08		216	1,602.20								
<b>Install Trim Coil</b>															
S22-9.01	Install trim coil	6	04FEB08	11FEB08		216	9,613.20								
<b>Complete Local Service &amp; interface details</b>															
S22-10.01	Install all wing support bladders	2	12FEB08	13FEB08		216	3,204.40								
S22-10.02	local service connections on each MC.	8	14FEB08	25FEB08		216	12,817.60								
S22-10.03	Inject stycast to fill in all shim spaces	1	26FEB08	26FEB08		216	1,602.20								
<b>Final Measurements/Transfer to Holding Area</b>															
S22-11.01	Install or identify three primary fiducials	1	27FEB08	27FEB08		216	1,602.20								
S22-11.02	Final metrology measurement of all fiducials.	5	28FEB08	05MAR08		216	0.00								
S22-11.03	Tension tester measure bolt length	0	06MAR08	05MAR08		216	0.00								
S22-11.04	Mark part for identification	0	06MAR08	05MAR08		216	0.00								
S22-11.05	Install lift support beams	2	06MAR08	07MAR08		216	3,204.40								
S22-11.06	Remove from stand Move A2-B2-C2 to holding area	2	10MAR08	11MAR08		216	3,204.40								
<b>Station 2-Modular Coil Subassembly-FP#2</b>															
S23-A3B3C3	Assemble/Align Mod-Coils A3/B3/C3	118	14FEB08	30JUL08		221	139,791.95								
S24-A4B4C4	Assemble/Align Mod-Coils A4/B4/C4	79	19MAR08	09JUL08		245	77,706.70								
<b>Station 2-Modular Coil Subassembly-FP#3</b>															
S25-A5B5C5	Assemble/Align Mod-Coils A5/B5/C5	118	02SEP08*	25FEB09		245	143,162.91								
S26-A6B6C6	Assemble/Align Mod-Coils A6/B6/C6	79	06OCT08*	04FEB09		266	79,986.20								
<b>Station 3 Setup/Preparations/General</b>															
R1810-3102	Misc M&S	65	03APR08*	03JUL08	1	1,060	6,540.00								
R1810-3103	Install station 3 platforms (8 required)	4	30OCT07	02NOV07	1	270	22,052.32								
R1810-3104	Procure 3 legged actuator system	20	01OCT07*	26OCT07	1	276	56,244.00								
R1810-3106	Load test 3 ledged actuator system	3	29OCT07	31OCT07	1	276	7,690.56								
R1810-3108	Procure ,Fabricate 3 legged actuator lift fixtur	20	01OCT07*	26OCT07	1	271	7,848.00								
R1810-3112	Load Test 3 legged actuator lift fixtur	8	29OCT07	07NOV07	1	271	10,254.08								
R1810-3150	Fab New legs	4	01OCT07*	04OCT07	1	287	5,127.04								



Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year											
								FY07	FY08	FY09	FY10	FY11	FY12						
R1810-3107	Test out station 3 equipment and procedures	4	05NOV07	08NOV07	1	270	13,080.00	EM/TB =80hr ; 41=10\$K ;											
<b>Station 3-Assemble Mod Coils and VVSA-FP#1</b>																			
R1810-2109	Begin Station 3	0	23JAN08		1	226	0.00	EM/TB =20hr ;											
S31-1.01	Install Station 3 site monuments	3	23JAN08	25JAN08	1	226	7,422.60												
S31-1.02	Install floor mounted tracks and VV base support	5	28JAN08	01FEB08	1	226	9,319.00												
S31-1.03	Establish the MCHP CG location.	2	04FEB08	05FEB08	1	226	3,204.40												
S31-2.01	Install MCHP support cart assemblies	4	06FEB08	11FEB08	1	226	6,408.80												
S31-2.02	Verify cart motion.	2	12FEB08	13FEB08	1	226	3,204.40												
S31-2.03	Install adjustor bar support weldment	0	14FEB08	13FEB08	1	226	0.00												
S31-2.04	Position left MCHP on the cart assembly	1	14FEB08	14FEB08	1	226	1,602.20												
S31-2.05	Secure left MCHP on support cart base.	2	15FEB08	18FEB08	1	226	3,204.40												
S31-2.06	Measure monuments on left MCHP and walls	5	19FEB08	25FEB08	1	226	0.00												
S31-2.07	Set positioning stop on the cart	1	26FEB08	26FEB08	1	226	1,602.20												
S31-3.01	Move right base support cart to its final positi	0	27FEB08	26FEB08	1	226	0.00												
S31-3.02	Lift the right side MCHP and position	1	12MAR08	12MAR08	1	216	1,602.20												
S31-3.03	Temporary fasteners bring the parts together.	0	13MAR08	12MAR08	1	216	0.00												
S31-3.04	AirLoc Wedgemount leveler to take load.	0	13MAR08	12MAR08	1	216	0.00												
S31-3.05	Install temp scaffolding to install flange hw	1	13MAR08	13MAR08	1	216	1,602.20												
S31-3.06	Install bolts and shims	1	14MAR08	14MAR08	1	216	1,602.20												
S31-3.07	Tighten flange fasteners to 50%	1	17MAR08	17MAR08	1	216	1,602.20												
S31-3.08	Perform metrology measurements	5	18MAR08	24MAR08	1	216	0.00												
S31-3.09	Perform position adjust on right side MCHP	2	25MAR08	26MAR08	1	216	3,204.40												
S31-3.1	Verify position of the VV support hanger	3	27MAR08	31MAR08	1	216	0.00												
S31-3.11	Remove flange hardware and temp platforms	1	01APR08	01APR08	1	216	1,602.20												
S31-4.01	EMeasure monuments on the MCHP's & walls.	2	02APR08	03APR08	1	216	0.00												
S31-4.02	Place all of the laser screens	2	04APR08	07APR08	1	216	3,204.40												
S31-4.03	Determine laser alignment.	1	08APR08	08APR08	1	216	1,602.20												
S31-4.04	mount the milar on the screens.	1	09APR08	09APR08	1	216	0.00												
S31-4.05	Disengage MCHP's to move the left MCHP.	1	10APR08	10APR08	1	216	1,602.20												
S31-4.06	Remove both MCHP's.	2	11APR08	14APR08	1	216	3,204.40												
S31-5.01	Remove the adjustor bar support from left side.	0	15APR08	14APR08	1	216	0.00												
S31-5.02	Install VV NBI port support stand.	2	15APR08	16APR08	1	216	3,204.40												
S31-5.03	Install VVSA to base support	1	17APR08	17APR08	1	216	1,602.20												
S31-5.04	Secure the VVSA to base & NBI port sprt stand.	2	18APR08	21APR08	1	216	3,204.40												
S31-6.01	Install bumper protection components on the VV	0	22APR08	21APR08	1	216	0.00												
S31-6.02	Position AirLoc Wedgemount in lower position.	0	22APR08	21APR08	1	216	0.00												
S31-6.03	move the left MCHP over the VV.	2	22APR08	23APR08	1	216	3,204.40												
S31-6.04	Re-install the left adjustor bar.	0	24APR08	23APR08	1	216	0.00												





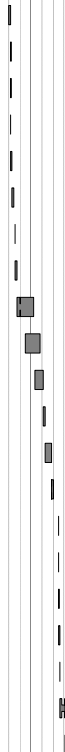






Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year															
								FY07	FY08	FY09	FY10	FY11	FY12										
S33-9.04	Install VV lateral supports and align	2	05MAY09	06MAY09	2	245	6,596.80																
S33-9.05	Prepare VVSA for transport.	1	07MAY09	07MAY09	2	245	3,298.40																
S33-10.01	transfer the unit to the transfer support frame	1	08MAY09	08MAY09	2	245	6,596.80																
S33-10.02	Transfer Period 3 to Station 5 in NCSX TC	1	11MAY09	11MAY09	2	245	3,298.40																
<b>Job: 1815 - Field Period Assy -Station 5-VIOLA</b>																							
<b>Setup/Preparations/General</b>																							
R1810-5101	MTM NCR hardware re-purchase	25	27MAY08	30JUN08	1	246	54,936.00																
R1810-5102	Monuments,reflectors,CCR's	10	03JUN08	16JUN08	1	246	67,689.00																
R1810-5103	metrology network in NCSX TC	10	17JUN08	30JUN08	1	246	21,973.60																
R1810-5104	Misc for tooling	10	21JUL08	01AUG08	1	246	15,696.00																
R1810-5112	Weld wire & welding supplies	25	27MAY08	30JUN08	1	246	19,620.00																
R1810-5106	Testout Sta 5 equipt & procedures	5	01JUL08	08JUL08	1	246	12,817.60																
R1810-5107	Check 3 sled interfaces adjust holes	12	09JUL08	24JUL08	1	246	30,762.24																
R1810-5108	Fixtures installed-final metrology	6	25JUL08	01AUG08	1	246	15,381.12																
<b>Station 5- Final FP Assy -FP#1 (in NCSX TC)</b>																							
R1810-5109	Begin Station 5 Operations	0		01AUG08*	1	246	0.00																
S51-1.01	cut off short dome	2	04AUG08	05AUG08		246	3,204.40																
S51-1.02	Install insulation system around all ports.	0	06AUG08	05AUG08		246	0.00																
S51-1.03	Install heat tape and theomocouples on all ports	0	06AUG08	05AUG08		246	0.00																
S51-2.01	Install period support fixture	2	06AUG08	07AUG08		246	3,204.40																
S51-2.02	Install FPA on support stand.	2	08AUG08	11AUG08		246	3,204.40																
S51-2.03	Install external working platforms	4	12AUG08	15AUG08		246	6,408.80																
S51-2.04	Install internal VV working platforms	3	18AUG08	20AUG08		246	4,806.60																
S51-3.01	Install the domes (left and right side),	2	21AUG08	22AUG08		246	3,204.40																
S51-3.02	Install small dome ports remaining circ ports.	30	25AUG08	06OCT08	1	246	48,254.00																
S51-3.03	Leak check each port after it is welded.	30	16SEP08	27OCT08	1	246	48,959.00																
S51-4.01	Install boots on ports except for the two port	16	16OCT08	06NOV08	1	246	26,387.20																
S51-5.01	Install MC lead connections on each of the MC's	1	07NOV08	07NOV08		246	0.00																
S51-5.02	Install MC coolant lines on each MC	12	10NOV08	25NOV08		246	19,790.40																
S51-5.03	Platforms may need to be altered	3	26NOV08	02DEC08		246	4,947.60																
S51-6.01	Rotate 2 TF coils over the MC on the right side	2	15DEC08	16DEC08		238	3,298.40																
S51-6.02	Attach the temp support at end of Type-C MC	1	17DEC08	17DEC08		238	1,649.20																
S51-6.03	Lower leveler pad disengage base of MC right sid	0	18DEC08	17DEC08		238	0.00																
S51-6.04	Install TF support brackets	2	18DEC08	19DEC08		238	3,298.40																
S51-6.05	Secure First TF assy	1	22DEC08	22DEC08		238	1,649.20																
S51-6.06	Install TF support brackets	2	23DEC08	02JAN09		238	3,298.40																
S51-6.07	Secure 2nd TF coil	1	05JAN09	05JAN09		238	1,649.20																

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





Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year															
								FY07	FY08	FY09	FY10	FY11	FY12										
S51-6.08	Install machine support plates	3	06JAN09	08JAN09		238	4,947.60																
S51-6.09	Reinstall leveler pad	0	09JAN09	08JAN09		238	0.00																
S51-6.1	Installed one side of the TF support brackets	1	09JAN09	09JAN09		238	1,649.20																
S51-7.01	The TF installation on the left side	13	12JAN09	28JAN09		238	21,439.60																
S51-8.01	Perform a fit-up check of the four TF coils	5	29JAN09	04FEB09		238	8,246.00																
S51-9.01	Tack weld the left and right port 4's.	2	05FEB09	06FEB09		238	3,298.40																
S51-9.02	Install boots on both port 4's.	4	09FEB09	12FEB09		238	6,596.80																
S51-10.01	Install PF coil support structure	8	13FEB09	24FEB09		238	13,193.60																
S51-11.01	Install tMC coolant manifold	3	25FEB09	27FEB09		238	4,947.60																
S51-11.02	Connect MC coolant lines to the manifold	20	02MAR09	27MAR09		238	32,984.00																
S51-12.01	Install Rogowski coils	5	30MAR09	03APR09		238	8,246.00																
S51-13.01	Obtain set of Period 1 align fiducial positions	5	06APR09	10APR09		238	0.00																
S51-13.02	align to tooling balls on each MCHP	1	13APR09	13APR09		238	0.00																
S51-13.03	bring the VV into proper alignment	4	14APR09	17APR09		238	6,596.80																
S51-13.04	Install or identify three primary fiducials	2	20APR09	21APR09		238	3,298.40																
S51-13.05	Make a final measurement of all fiducials	2	22APR09	23APR09	2	238	0.00																
S51-13.11	Check Assembly (bolts, etc)	3	24APR09	28APR09	2	238	8,246.00																
S51-13.12	Check Diagnostics (Loops, thermocouples)	2	29APR09	30APR09	2	238	8,246.00																
S51-13.13	Check manifolds (pressure, flow, etc.)	3	01MAY09	05MAY09	2	238	8,246.00																
S51-13.14	Check 6 modcoils (voltage etc)	3	06MAY09	08MAY09	2	238	9,895.20																
S51-13.15	Check trim coils (voltage etc)	2	11MAY09	12MAY09	2	238	4,947.60																
S51-13.16	Check TF coils (voltage etc)	3	13MAY09	15MAY09	2	238	9,895.20																
S51-14.01	Install crane rigging to completed Period assy	1	18MAY09	18MAY09	2	238	3,298.40																
S51-14.02	Remove platforms	1	19MAY09	19MAY09	2	238	1,649.20																
S51-14.03	Transfer Period 1 to Station 6 in NCSX tTC.	1	20MAY09	20MAY09	2	238	3,298.40																
<b>Station 5- Final FP Assy -FP#2 (in NCSX TC)</b>																							
S52-1.01	cut off short dome	2	05JAN09	06JAN09		216	3,298.40																
S52-1.02	Install insulation system around all ports.	0	07JAN09	06JAN09		216	0.00																
S52-1.03	Install heat tape and theomocouples on all ports	0	07JAN09	06JAN09		216	0.00																
S52-2.01	Install period support fixture	2	07JAN09	08JAN09		216	3,298.40																
S52-2.02	Install FPA on support stand.	2	09JAN09	12JAN09		216	3,298.40																
S52-2.03	Install external working platforms	4	13JAN09	16JAN09		216	6,596.80																
S52-2.04	Install internal VV working platforms	3	19JAN09	21JAN09		216	4,947.60																
S52-3.01	Install the domes (left and right side),	2	22JAN09	23JAN09		216	3,298.40																
S52-3.02	Install small dome ports remaining circ ports.	30	26JAN09	06MAR09		216	49,476.00																
S52-3.03	Leak check each port after it is welded.	30	16FEB09	27MAR09		216	49,476.00																
S52-4.01	Install boots on ports except for the two port	16	18MAR09	08APR09		216	26,387.20																
S52-5.01	Install MC lead connections on each of the MC's	1	09APR09	09APR09		216	0.00																





Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year																
								FY07	FY08	FY09	FY10	FY11	FY12											
S53-2.01	Install period support fixture	1	22MAY09	22MAY09	2	238	3,298.40																	
S53-2.02	Install FPA on support stand.	1	26MAY09	26MAY09	2	238	3,298.40																	
S53-2.03	Install external working platforms	2	27MAY09	28MAY09	2	238	6,596.80																	
S53-2.04	Install internal VV working platforms	2	29MAY09	01JUN09	2	238	4,947.60																	
S53-3.01	Install the domes (left and right side),	1	02JUN09	02JUN09	2	238	3,298.40																	
S53-3.02	Install small dome ports remaining circ ports.	15	03JUN09	23JUN09	2	238	49,476.00																	
S53-3.03	Leak check each port after it is welded.	15	12JUN09	02JUL09	2	238	49,476.00																	
S53-4.01	Install boots on ports except for the two port	8	29JUN09	09JUL09	2	238	26,387.20																	
S53-5.01	Install MC lead connections on each of the MC's	1	10JUL09	10JUL09	2	238	0.00																	
S53-5.02	Install MC coolant lines on each MC	6	13JUL09	20JUL09	2	238	19,790.40																	
S53-5.03	Platforms may need to be altered	2	21JUL09	22JUL09	2	238	4,947.60																	
S53-6.01	Rotate 2 TF coils over the MC on the right side	1	23JUL09	23JUL09	2	238	3,298.40																	
S53-6.02	Attach the temp support at end of Type-C MC	1	24JUL09	24JUL09	2	238	1,649.20																	
S53-6.03	Lower leveler pad disengage base of MC right sid	0	27JUL09	24JUL09	2	238	0.00																	
S53-6.04	Install TF support brackets	1	27JUL09	27JUL09	2	238	3,298.40																	
S53-6.05	Secure First TF assy	1	28JUL09	28JUL09	2	238	1,649.20																	
S53-6.06	Install TF support brackets	1	29JUL09	29JUL09	2	238	3,298.40																	
S53-6.07	Secure 2nd TF coil	1	30JUL09	30JUL09	2	238	1,649.20																	
S53-6.08	Install machine support plates	1	31JUL09	31JUL09	2	238	4,947.60																	
S53-6.09	Reinstall leveler pad	0	03AUG09	31JUL09	2	238	0.00																	
S53-6.1	Installed one side of the TF support brackets	1	03AUG09	03AUG09	2	238	1,649.20																	
S53-7.01	The TF installation on the left side	6	04AUG09	11AUG09	2	238	21,439.60																	
S53-8.01	Perform a fit-up check of the four TF coils	3	12AUG09	14AUG09	2	238	8,246.00																	
S53-9.01	Tack weld the left and right port 4's.	1	17AUG09	17AUG09	2	238	3,298.40																	
S53-9.02	Install boots on both port 4's.	2	18AUG09	19AUG09	2	238	6,596.80																	
S53-10.01	Install PF coil support structure	4	20AUG09	25AUG09	2	238	13,193.60																	
S53-11.01	Install tMC coolant manifold	2	26AUG09	27AUG09	2	238	4,947.60																	
S53-11.02	Connect MC coolant lines to the manifold	10	28AUG09	11SEP09	2	238	32,984.00																	
S53-12.01	Install Rogowski coils	3	14SEP09	16SEP09	2	238	8,246.00																	
S53-13.01	Obtain set of Period 1 align fiducial positions	2	17SEP09	18SEP09	2	238	0.00																	
S53-13.02	align to tooling balls on each MCHP	1	21SEP09	21SEP09	2	238	0.00																	
S53-13.03	bring the VV into proper alignment	2	22SEP09	23SEP09	2	238	6,596.80																	
S53-13.04	Install or identify three primary fiducials	1	24SEP09	24SEP09	2	238	3,298.40																	
S53-13.05	Make a final measurement of all fiducials	3	25SEP09	29SEP09	2	238	0.00																	
S53-13.11	Check Assembly (bolts, etc)	2	30SEP09	01OCT09	2	238	8,386.00																	
S53-13.12	Check Diagnostics (Loops, thermocouples)	3	02OCT09	06OCT09	2	238	8,526.00																	
S53-13.13	Check manifolds (pressure, flow, etc.)	2	07OCT09	08OCT09	2	238	8,526.00																	
S53-13.14	Check 6 modcoils (voltage etc)	3	09OCT09	13OCT09	2	238	10,231.20																	

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost							
								FY07	FY08	FY09	FY10	FY11	FY12	
S53-13.15	Check trim coils (voltage etc)	2	14OCT09	15OCT09	2	238	5,115.60							
S53-13.16	Check TF coils (voltage etc)	3	16OCT09	20OCT09	2	238	10,231.20							
S53-14.01	Install crane rigging to completed Period assy	1	21OCT09	21OCT09	2	238	3,410.40							
S53-14.02	Remove platforms	1	22OCT09	22OCT09	2	238	1,705.20							
S53-14.03	Transfer Period 3 to Station 6 in NCSX tTC.	1	23OCT09	23OCT09	2	238	3,410.40							
R1810-5333	Last field period assembled	0		23OCT09	2	238	0.00							
<b>19 - Stellarator Core Management and Integration</b>														
<b>Job: 1901 - Stellarator Core Mngt&amp;Integr-COLE</b>														
<b>191 - Stellarator Core Management &amp; Oversight</b>														
1901-07	WBS 191 FY07	LOE	106*	01MAY07*	28SEP07	1	1,249	69,094.09						
1901-08	WBS 191 FY08	LOE	249*	01OCT07*	29SEP08	1	1,000	210,856.83						
1901-09	WBS 191 FY09	LOE	247*	01OCT08*	28SEP09	1	752	223,746.79						
1901-10	WBS 191 FY10	SA LOE	248*	01OCT09*	30SEP10	1	502	230,570.13						
1901-11	WBS 191 FY10	LOE	96*	01OCT10*	23FEB11	1	406	126,046.57						
<b>192 - Stellarator Core Integration &amp; Analysis</b>														
1902-07	WBS 192 FY07		106*	01MAY07*	28SEP07	1	1,249	72,622.19						
1902-08	WBS 192 FY08		249*	01OCT07*	29SEP08	1	1,000	176,059.08						
1902-09	WBS 192 FY09		247*	01OCT08*	28SEP09	1	752	185,680.57						
1902-10	WBS 192 FY10		248*	01OCT09*	30SEP10	1	502	192,909.83						
1902-11	WBS 192 FY10		122*	01OCT10*	31MAR11	1	380	98,192.81						
<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	01OCT09*	28OCT09		260	17,017.17						
211-105	PDR		1	29OCT09	29OCT09		260	0.00						
211-109	Final Design		20	30OCT09	30NOV09		260	17,017.17						
211-113	FDR		1	01DEC09	01DEC09		260	0.00						
211-117	Title III		85	02DEC09	09APR10		623	5,133.90						
211-121	Procure Material and Supplies		65	02DEC09	12MAR10		260	7,160.00						
211-125	Fabricate/Install/Test		40	15MAR10	07MAY10		260	16,839.36						
<b>22 - Torus Vacuum Pumping Systems</b>														
<b>Job: 2201 - Vacuum Pumping Systems-BLANCHARD</b>														
220-101	Preliminary Design		30	02MAR09*	10APR09		230	40,404.42						

EM/TB =00hr ;

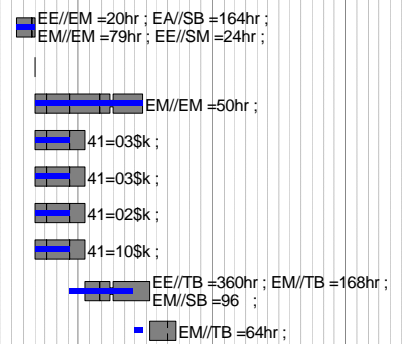
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 cole=.40 fte nelson=.15 fte ; 35=05\$K ;  
 cole=.40 fte nelson=.15 fte ; 35=05\$K ;

ornlem=.45; orn1 dsnr=.3  
 ornlem=.45; orn1 dsnr=.  
 ornlem=.45; orn1 dsnr=.3  
 ornlem=.45; orn1 dsnr=.3  
 ornlem=.45; orn1 dsnr=.3

EM//EM =45hr ; EA//SB =16hr ;  
 EE//SM =48hr ;  
 EM//EM =45hr ; EA//SB =16hr ;  
 EE//SM =48hr ;  
 EM//EM =30hr ;  
 41=05\$K ;  
 EM//SB =96 ; EM//TB =64hr ;

EE//EM =20hr ; EA//SB =164hr ;  
 EM//EM =79hr ; EE//SM =24hr ;

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
220-105	PDR	1	13APR09	13APR09		230	0.00						
220-109	Final Design	35	14APR09	02JUN09		230	40,404.42						
220-113	FDR	1	03JUN09	03JUN09		230	0.00						
220-114	Title III	200	04JUN09	26MAR10		633	8,439.68						
220-117	Procure/Install AC pwr for backup sys	95	04JUN09	16OCT09		230	4,204.26						
220-121	Procure/Install TVPS/GIS Rack	95	04JUN09	16OCT09		230	4,204.26						
220-125	Procure/Install Cabling	95	04JUN09	16OCT09		230	2,102.13						
220-129	Procure/Install TVPS materials	95	04JUN09	16OCT09		230	14,014.21						
220-133	Assemble Fabricate (mechanical)	115	19OCT09	09APR10		230	55,543.20						
220-137	Installation/Test (mechanical)	50	12APR10	21JUN10		230	5,456.64						



### 3 - Diagnostics

#### 31 - Magnetic Diagnostics

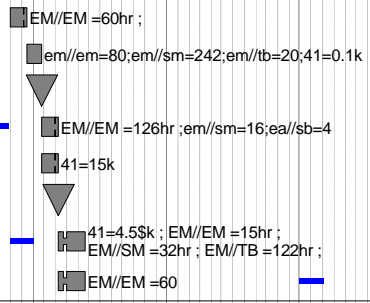
##### Job: 3101 - Magnetic Diagnostics-STRATTON

###### Modular Coil C-wound Loops

3101-229	Fabricate(12) MC Protective boxes (completed)	43	01MAY07A	01MAY07A			0.00
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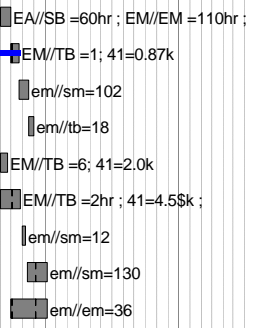
###### Rogowski Coils

3101-316	CONCEP DESIGN ROWGOWSKI COIL	30	01AUG07*	12SEP07		330	9,235.20
3101-317	PRELIM DESIGN ROWGOWSKI COIL incl prototype	30	13SEP07*	24OCT07		330	17,464.22
3101-318	PDR - ROWGOWSKI COIL	0		24OCT07*		330	0.00
3101-325	FINAL DESIGN ROWGOSKI COIL	30	25OCT07*	07DEC07		330	22,852.94
3101-340	subcontract winding 3 mandrels	30	25OCT07*	07DEC07		330	19,620.00
3101-326	FDR - ROWGOSKI COIL	0		07DEC07		330	0.00
3101-329	FAB ROWGOWSKI COILS incl clamps	45	10DEC07	19FEB08		330	22,298.79
3101-330	Title III	45	10DEC07	19FEB08		330	9,647.40



###### TF and PF Co-wound Loops

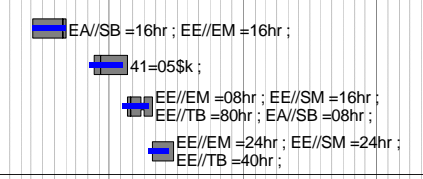
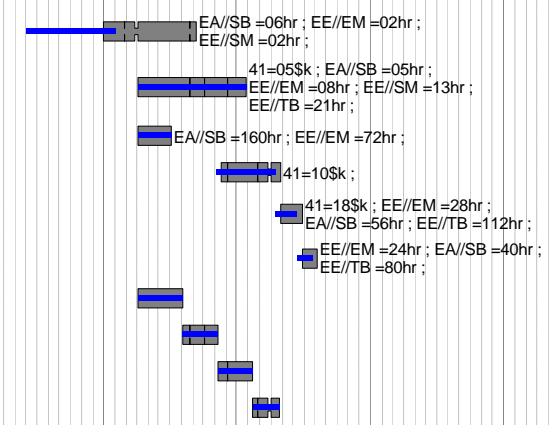
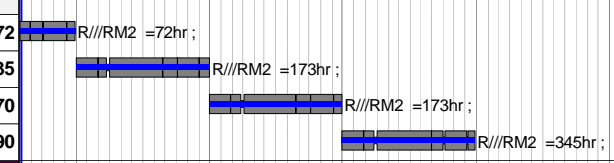
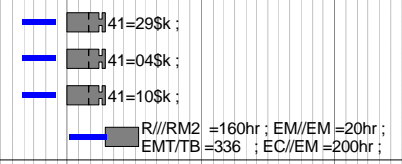
3101-425	Design Protective boxes	20	01JUN07*	28JUN07		513	23,818.00
3101-426	Purchase SS Sheet	15	29JUN07*	20JUL07		513	1,186.81
3101-452	Form Protective boxes	20	23JUL07	17AUG07		513	12,899.94
3101-454	Weld end plates	10	20AUG07	31AUG07		513	1,380.42
3101-427	Purchase Heat Shrink tubing	15	01JUN07*	21JUN07		609	3,012.14
3101-428	Purchase aad'l CoAxial cable	40	01JUN07*	27JUL07		538	5,895.38
3101-450	Prototype PF Loops	10	30JUL07*	10AUG07		584	1,517.64
3101-458	FabTF,PF & solenoid co-wound loops	40	13AUG07	08OCT07		584	16,551.08
3101-456	Title III	70	29JUN07	08OCT07		584	5,562.32



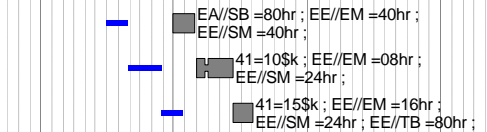
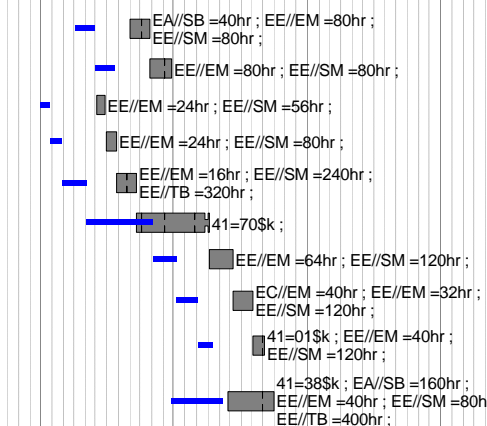
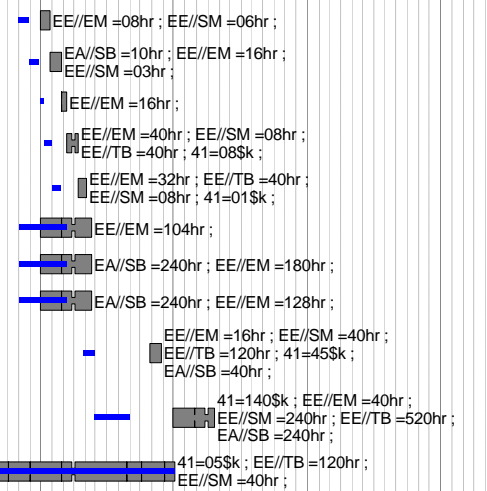
Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost							
								FY07	FY08	FY09	FY10	FY11	FY12	
<b>T/C and Heater Tape Leads</b>														
1204-140	Design T/C and Heater Tape Leads	20	01MAY07	29MAY07		311	20,933.12	EM//EM =136						
1204-140.2	Design Drafting T/C and Heater Tape Leads	20	01MAY07	29MAY07		311	3,443.40	ea//sb=30						
1204-140.1	Peer Review T/C and Heater Tape Leads	20	30MAY07	26JUN07		311	4,617.60	EM//EM =30						
1204-141	Drawings Signed T/C and Heater Tape Leads	0		26JUN07		311	0.00							
1204-146	Procurement support T/C and Heater Tape Leads	20	27JUN07	25JUL07		311	6,156.80	EM//EM =40						
1204-147	Field/Fab support (title III) T/C&Heater Tape	65	01OCT07	10JAN08		265	4,019.75	EM//EM =25						
1204-148	Machine 12 2.75 cf blanks	20	27JUN07	25JUL07		376	4,552.92	em//sm=36						
1204-150	Rubber seal	20	27JUN07	25JUL07		376	0.00							
1204-151	Machine 6 commercial aluminum boxes	20	27JUN07	25JUL07		376	4,552.92	em//sm=36						
<b>Flux loop junction boxes and spacer templates</b>														
1204-160	Design Protective Boxes	10	01MAY07	14MAY07		312	3,386.24	EM//EM =22						
1204-161	Fab Protective Boxes	10	09AUG07	22AUG07		338	5,727.88	EM//SM=36; 41=,44k; em//tb=8						
1204-165	Issue req,Bid & Award- Flux Loop Junction Boxes	25	15MAY07	19JUN07		338	0.00							
1204-170	Autocad dwgs of field runs/tag#/ports assignmt	10	01JUN07*	14JUN07		386	17,239.04	EM//em=112						
1204-171	Prep Dwgs of spacer loops	10	01AUG07*	14AUG07		816	6,886.80	ea//sb=60						
1204-172	Title III	96	15MAY07	28SEP07		312	18,470.40	EM//em=120						
1204-173	Purchase material for boxes&spacers (in job 1204	35	20JUN07	08AUG07		338	6,237.64	em=32;em//em=4;em//tb=4						
<b>Voltage Loops &amp; Protective Boxes</b>														
3101-800	Design Routing and Boxes	20	01OCT07*	26OCT07		385	9,794.54	em//em=46;ea//sb=20						
3101-802	Fab 3 protective Boxes	10	29OCT07	09NOV07		395	1,118.28	41=0.12k; em//tb=12						
3101-804	Purchase 900ft cable	20	29OCT07*	23NOV07		385	2,414.38	41=1.6k;em//em=2						
3101-806	Title III	20	29OCT07	23NOV07		385	964.74	em//em=6						
<b>36 - Edge and Divertor Diagnostics</b>														
<b>Job: 3601 - Edge Divertor Diagnostics-STRATTON</b>														
361-001	Design Visible Camera sys	40	01OCT09*	25NOV09		280	10,209.60	EA/SB =80hr ;						
361-015	Procure flange,window and material	65	30NOV09	10MAR10		280	5,012.00	41=04\$k ;						
361-016	fabricate and assemble Visible tv camera sys	20	11MAR10	07APR10		280	10,913.28	EMT/TB =128 ;						
<b>38 - Electron Beam (EB) Mapping</b>														
<b>Job: 3801 - Electron Beam Mapping-STRATTON</b>														
380-010	E-beam mapping- Prelim Design	30	01JUL09*	12AUG09		277	44,761.80	R//RM2 =160hr ; EM//EM =50hr ; EA/SB =40hr ; 35=03\$k ;						
380-015	E-beam mapping-PDR	1	13AUG09	13AUG09		277	0.00							
380-100	E-beam mapping-Final Design	30	14AUG09*	25SEP09		277	56,544.80	R//RM2 =160hr ; EM//EM =50hr ; EA/SB =40hr ; EC//EM =100hr ;						



Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
380-110	E-beam mapping-FDR	1	28SEP09	28SEP09		277	0.00						
380-115	E-beam mapping-Procure Rack	65	29SEP09*	11JAN10		277	40,924.40						
380-120	E-beam mapping-Procure Ports	65	29SEP09	11JAN10		277	5,723.69						
380-130	E-beam mapping-Procure Data Acquisition	65	29SEP09*	11JAN10		277	14,309.23						
380-135	E-beam mapping- Assemble	65	12JAN10*	12APR10		277	92,913.16						
<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						
<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		299	1,390.80						
411-1-100	Ex-Test cell AC pwr-Reactiv.&new instl	210	02JAN09*	27OCT09		343	12,652.35						
411-2-2	Grounding-Dsn	65	02JAN09*	02APR09		349	32,604.96						
411-2-4	Grounding-Procure	107	18AUG09*	28JAN10		299	14,218.60						
411-2-6	Grounding-Install	43	29JAN10*	30MAR10		299	46,659.48						
411-2-8	Grounding-Commission	29	31MAR10*	10MAY10		299	16,166.80						
411-3-2	Test Cell AC Power Distr-Dsn**GPP**	90	02JAN09*	07MAY09		333	0.00						
411-3-4	TC AC Pwr Distr-Procure(pnl&xfrmrs)**GPP**	65	08MAY09	10AUG09		333	0.00						
411-3-6	Test Cell AC Power Distr-Install**GPP**	65	11AUG09	10NOV09		333	0.00						
411-3-8	Test Cell AC Power Distr-Commission**GPP**	45	11NOV09*	26JAN10		333	0.00						
<b>412 - Experimental AC Power Systems</b>													
412-1-2	C-site Pulsed AC Power Distr-Dsn	65	02MAR09*	01JUN09		308	4,832.00						
412-1-4	C-site Pulsed AC Power Distr-Procure	65	18AUG09	17NOV09		333	7,076.54						
412-1-6	C-site Pulsed AC Power Distr-Install	40	18NOV09	26JAN10		333	11,553.36						
412-1-8	C-site Pulsed AC Power Distr-Commission	40	27JAN10	23MAR10		333	11,384.00						
<b>15</b>													
4101ACPWR	Prior ac pwr work reclassified as gpp	356	01MAY07A	31MAY07A			-104,100.00						



Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost						
								FY07	FY08	FY09	FY10	FY11	FY12
<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		616	2,308.00						
431-210	Organize & verify documentation	20	29OCT08*	25NOV08		616	4,531.16						
431-215	Document status	10	26NOV08*	11DEC08		616	2,857.28						
431-225	Reactivate DF & PEI units	15	12DEC08*	12JAN09		616	22,697.68						
431-230	Duumy Load test of DF & PEI units	15	13JAN09*	02FEB09		616	11,490.04						
431-240	Simulate each of 6 pwr loops in PSCAD	90	01OCT08*	16FEB09		518	18,572.32						
431-250	c-site dc sys DGS dsn documentation	90	01OCT08*	16FEB09		518	61,765.20						
431-261	Redo power loop design	90	01OCT08*	16FEB09		518	52,479.04						
431-265	Fabricate bus components	20	29JUL09*	25AUG09		404	86,139.48						
431-275	Power cabling & Installation	68	01OCT09*	18JAN10		379	317,964.40						
431-276	Maint of C-site rectifiers	501	01OCT07*	02OCT09		445	22,026.38						
<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	40	01JUN09*	27JUL09		495	30,948.00						
441-097	Install Interlock sys	40	28JUL09	22SEP09		495	26,011.20						
441-100	PLC Specification	20	02MAR09*	27MAR09		304	12,493.28						
441-105	Prep Block diagrams	20	30MAR09	24APR09		304	16,010.72						
441-110	PLC CWD's & Cabling	40	27APR09*	22JUN09		304	63,679.68						
441-115	deliver PLC	130	23JUN09	06JAN10		304	98,920.77						
441-120	Program PLC Logic	45	07JAN10	10MAR10		304	30,003.60						
441-125	Program Control pages	40	11MAR10	05MAY10		304	30,509.20						
441-130	Pre-commissioning tests	20	06MAY10	03JUN10		304	27,004.00						
441-135	Install I/O Cabling control & protection	90	25FEB10	01JUL10		304	127,497.20						
<b>442 - Kirk Key Interlocks</b>													
442-1-2	Kirk Keys-Dsn	40	01OCT09*	25NOV09		324	23,657.60						
442-1-4	Kirk Keys-Procure	65	30NOV09	10MAR10		324	19,434.40						
442-1-6	Kirk Keys-Install	40	11MAR10	05MAY10		324	34,702.00						



Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year							
								FY07	FY08	FY09	FY10	FY11	FY12		
442-1-8	Kirk Keys-Commission	20	06MAY10	03JUN10		324	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		424	14,772.00								EE//EM =80hr;
<b>444 - Instrument Systems</b>															
444-2-2	DC Potential Transducers (DCPTs)-Dsn	40	01OCT09*	25NOV09		329	9,536.40								EA//SB =40hr; EE//EM =24hr;
444-2-4	DC Potential Transducers (DCPTs)-Procure	65	30NOV09	10MAR10		329	10,633.92								41=06\$K; EA//SB =16hr;
444-2-6	DC Potential Transducers (DCPTs)-Install	40	11MAR10	05MAY10		329	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		329	13,041.60								EE//EM =24hr; EE//SM =24hr; EE//TB =60hr;
444-3-2	DC Shunts-Dsn	20	01OCT09*	28OCT09		469	8,515.44								EA//SB =32hr; EE//EM =24hr;
444-4-2	Signal Conditioning & Cabling-Dsn	130	01JUL09*	14JAN10		283	90,210.87								EA//SB =24hr; EE//EM =480hr;
444-4-4	Signal Conditioning & Cabling-Procure	65	15JAN10	15APR10		283	20,138.40								41=12\$K; EE//EM =16hr;
444-4-6	Signal Conditioning & Cabling-Install	65	16APR10	19JUL10		283	27,638.00								EE//EM =24hr; EE//TB =280hr;
444-4-8	Signal Conditioning & Cabling-Commission	10	20JUL10	02AUG10		283	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		328	35,854.56								EA//SB =40hr; EE//EM =160hr; EE//SM =16hr;
445-1-4	Ground Fault Protection-Procure	65	18AUG09*	17NOV09		415	28,383.62								41=18\$K; EE//EM =16hr;
445-1-6	Ground Fault Protection-Install	30	18NOV09*	12JAN10		415	25,626.96								EE//EM =40hr; EE//SM =48hr; EE//TB =120hr; EA//SB =08hr;
445-1-8	Ground Fault Protection-Commission	10	13JAN10	26JAN10		415	10,720.96								EE//EM =24hr; EE//SM =24hr; EE//TB =32hr;
445-2-105	Overload Protect-Write spec and approve	20	03AUG09*	28AUG09		331	14,286.40								EE//EM =80hr;
445-2-110	Overload Protect-Design	40	31AUG09*	26OCT09		341	26,177.60								EA//SB =32hr; EE//EM =96hr; EE//SM =32hr;
445-2-115	Overload Protect-Fabr 4 chassis	65	27OCT09*	08FEB10		361	27,049.20								EE//EM =48hr; EE//SM =120hr;
445-2-120	Overload Protect-Test 4 units	10	09FEB10	22FEB10		361	10,758.40								EE//EM =32hr; EE//SM =32hr;
445-2-125	Overload Protect-Install & Rack wiring	20	23FEB10	22MAR10		361	20,532.55								EE//EM =48hr; EE//SM =77hr;
445-2-130	Overload Protect-Write & perform ISTEP	15	23MAR10	12APR10		361	10,758.40								EE//EM =32hr; EE//SM =32hr;
445-2-135	Overload Protect-Documentation	180	31AUG09*	24MAY10		331	11,077.36								EA//SB =64hr; EE//EM =16hr;
445-2-140	Overload Protection&cabling design,procure instl	130	27OCT09*	10MAY10		341	61,328.23								41=13\$K; EA//SB =80hr; EE//EM =96hr; EE//SM =45hr; EE//TB =96hr;
<b>45 - Power System Design and Integration</b>															
<b>Job: 4501 - Power Sys Dsn &amp; Integr-RAMAKRISHNAN</b>															
<b>451 - System Design &amp; Interfaces</b>															
451-0-2	Develop SRD	15	01OCT08*	21OCT08		404	7,143.20								EE//EM =40hr;
451-3-2	Dwgs,asbuilts -Elect Dsn	245	08OCT08*	01OCT09		488	96,653.42								EA//SB =320hr; EE//EM =320hr;
451-2-2	PDR Prep Power system -Dsn	40	22OCT08	18DEC08		404	32,941.44								EA//SB =128hr; EE//EM =96hr;
451-2-3	PDR Power system -Dsn	0		18DEC08		404	0.00								

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	FY07 FY08 FY09 FY10 FY11 FY12					
								Gantt Chart					
451-6-2	Final design C-Site -Cabling	149	19DEC08	28JUL09		404	29,096.80	EA/SB =120hr ; EE//EM =80hr ;					
451-2-2.1	Final Design C-Site	149	19DEC08	28JUL09		404	29,096.80	EA/SB =120hr ; EE//EM =80hr ;					
451-1-2	Calculations-Dsn	149	22OCT08*	01JUN09		444	8,130.56	EA/SB =08hr ; EE//EM =40hr ;					
451-202.2	FDR C-Site	0		28JUL09		404	0.00	▼					
451-4-2	Final Dsn AC auxiliaries & grounding-Dsn	45	15JUN09	17AUG09		299	12,080.00	EA/SB =40hr ; EE//EM =40hr ;					
451-402.1	FDR AC auxiliaries & grounding-Dsn	0		17AUG09		299	0.00	▼					
<b>452 - Electrical Systems Support</b>													
452-1-2	Diagnostics AC Power Distr-Dsn	40	02MAR09*	24APR09		399	34,033.60	EA/SB =160hr ; EE//EM =80hr ;					
452-1-4	Diagnostics AC Power Distr-Procure	40	27APR09	22JUN09		399	2,384.36	41=01\$K ; EA/SB =08hr ;					
452-1-6	Diagnostics AC Power Distr-Install	130	23JUN09	06JAN10		399	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		399	29,816.40	EE//EM =24hr ; EE//SM =80hr ; EE//TB =160hr ;					
452-2-2	Diagnostics sensor cabling-Dsn	43	01MAY09*	01JUL09		434	24,033.12	EA/SB =160hr ; EE//EM =24hr ;					
452-2-4	Diagnostics sensor cabling-Procure	65	02JUL09	02OCT09		434	2,796.15	41=02\$K ;					
452-2-6	Diagnostics sensor cabling-Install	43	05OCT09	04DEC09		434	21,064.80	EE//EM =16hr ; EE//SM =32hr ; EE//TB =160hr ;					
452-2-8	Diagnostics sensor cabling-Commission	10	07DEC09	18DEC09		434	6,554.16	EE//EM =08hr ; EE//SM =16hr ; EE//TB =32hr ;					
<b>453 - System Testing (PTP's)</b>													
453-1-2	New Procedures	90	01JUL09*	05NOV09		363	24,269.34	EA/SB =160hr ; EE//EM =24hr ;					
453-1-3	Preop Testing-Procure test equipt	65	03AUG09*	02NOV09		446	28,187.69	41=20\$K ;					
453-1-4	TF Coil Test	20	14OCT10*	10NOV10		212	19,528.70	41=01\$K ; EA/SB =08hr ; EE//EM =32hr ; EE//SM =40hr ; EE//TB =54hr ;					
453-1-5	PF Coil Test	20	14OCT10*	10NOV10		212	19,528.70	41=01\$K ; EA/SB =08hr ; EE//EM =32hr ; EE//SM =40hr ; EE//TB =54hr ;					
453-1-6	Trim Coil Coil Test	20	14OCT10*	10NOV10		212	18,794.70	41=01\$K ; EA/SB =08hr ; EE//EM =32hr ; EE//SM =40hr ; EE//TB =54hr ;					
453-1-8	Testing PTPs, ISTPs	100	22JUN10*	10NOV10		212	160,241.27	41=10\$K ; EE//EM =240hr ; EE//SM =320hr ; EE//TB =370hr ; EA/SB =160hr ;					
<b>5 - Central I&amp;C Systems</b>													
<b>51 - Network and Fiber Infrastructure</b>													
<b>Job: 5101 - Network and Fiber Infrastruct-SICHTA</b>													
R51-10	Preliminary Design	30	01JUL09*	12AUG09		322	4,652.70	EC//EM =30hr ;					
R51-11	PDR	0		12AUG09		322	0.00	▼					
R51-20	Final Design	60	13AUG09	05NOV09		322	4,721.21	EC//EM =30hr ;					
R51-21	FDR	0		05NOV09		322	0.00	▼					
R51-30	Procurement	60	06NOV09	11FEB10		322	46,543.20	EC//EM =20hr ; 37=04 ; 43=10 ; 41=25\$K ;					
R51-50	Installation	60	12FEB10	06MAY10		322	83,587.00	EC//EM =60hr ; EC//TB =20 ; EA/SB =240hr ; EM//TB =490hr ;					

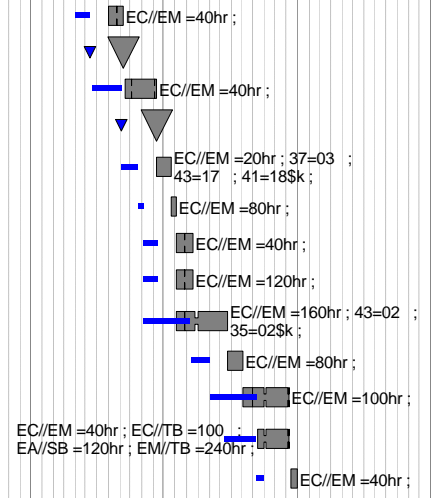
Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12

R51-60 Test 14 07MAY10 26MAY10 322 4,766.40

**52 - Central Instrumentation & Control**

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

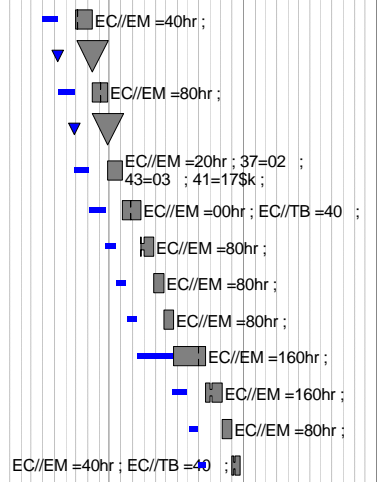
R52-10	Preliminary Design	30	01MAY09*	12JUN09		234	6,203.60
R52-11	PDR	0		12JUN09		234	0.00
R52-20	Final Design	60	15JUN09	08SEP09		234	6,203.60
R52-21	FDR	0		08SEP09		234	0.00
R52-30	Procurement	30	09SEP09	20OCT09		234	34,242.99
R52-40	EPICS Programming - Base	10	21OCT09	03NOV09		234	12,828.80
R52-50	EPICS Programming - VDCT db editor	30	04NOV09	17DEC09		414	6,414.40
R52-60	IOC Programming - MDSplus data & events	30	04NOV09	17DEC09		414	19,243.20
R52-70	OPC - EPICS/PLC Interface	90	04NOV09	23MAR10		234	28,203.60
R52-80	Appl. Programming-T/C	30	24MAR10	04MAY10		234	12,828.80
R52-90	Programming - misc.	90	05MAY10	10SEP10		234	16,036.00
R52-100	Installation	60	17JUN10	10SEP10		234	49,987.20
R52-110	Test	14	13SEP10	30SEP10		234	6,414.40



**53 - Data Acquisition & Facility Computing**

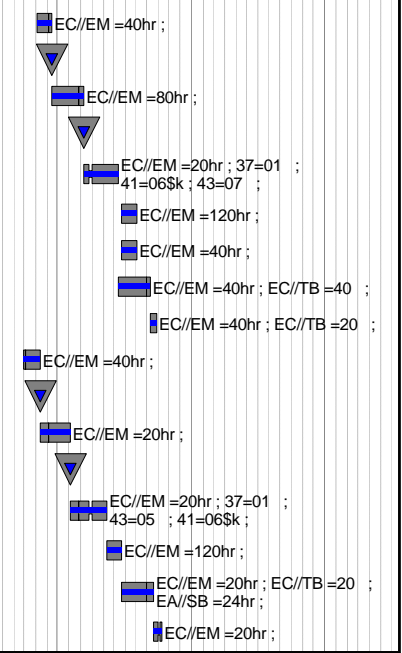
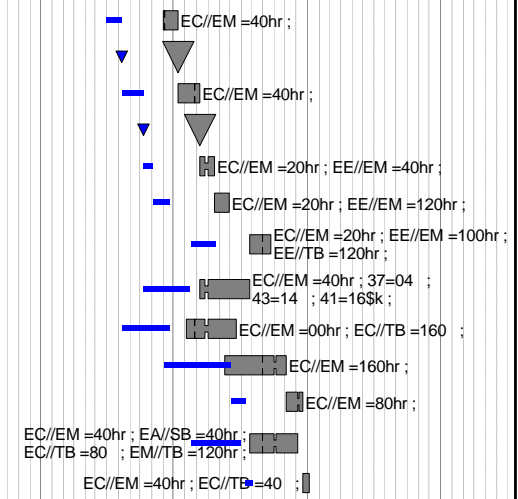
**Job: 5301 - Data Acquisition-SICHTA**

R53-10	Preliminary Design	30	01JUL09*	12AUG09		242	6,203.60
R53-11	PDR	0		12AUG09		242	0.00
R53-20	Final Design	30	13AUG09	24SEP09		242	12,407.20
R53-21	FDR	0		24SEP09		242	0.00
R53-30	Procurement	30	25SEP09	05NOV09		242	31,225.82
R53-40	Installation	30	06NOV09	21DEC09		242	3,118.40
R53-50	MDSplus Installation	20	22DEC09	28JAN10		242	12,828.80
R53-60	MDSplus Programming - Tree Design	20	29JAN10	25FEB10		242	12,828.80
R53-70	MDSplus Programming - Shot Sync	20	26FEB10	25MAR10		242	12,828.80
R53-110	Programming - Misc.	60	26MAR10	18JUN10		242	25,657.60
R53-80	MDSplus Programming - Dispatcher	30	21JUN10	02AUG10		242	25,657.60
R53-90	MDSplus Programming - Acquisition	20	03AUG10	30AUG10		242	12,828.80
R53-120	Test	14	31AUG10	20SEP10		242	9,532.80

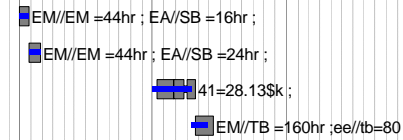
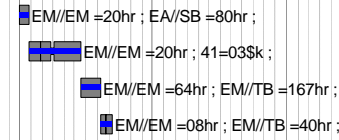
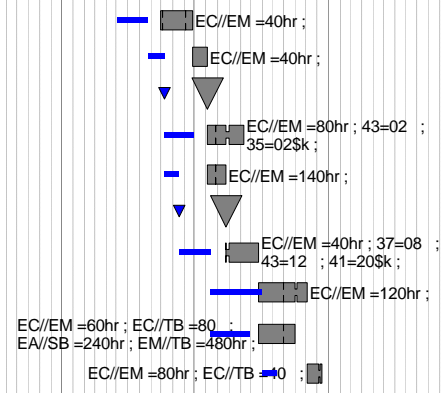




Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost						
								FY07	FY08	FY09	FY10	FY11	FY12
<b>54 - Facility Timing &amp; Synchronization</b>													
<b>Job: 5401 - Facility Timing and Synchron.-SICHTA</b>													
R54-10	Preliminary System Design	30	01SEP09*	13OCT09		229	6,266.84						
R54-11	PDR	0		13OCT09		229	0.00						
R54-20	Final SystemDesign	40	14OCT09	10DEC09		229	6,414.40						
R54-21	FDR	0		10DEC09		329	0.00						
R54-30	Preliminary Design - Clock Dist.	20	11DEC09	19JAN10		329	10,593.20						
R54-40	Final Design - Clock Dist.	30	20JAN10	02MAR10		329	25,365.20						
R54-50	Test - Clock Dist.	40	28APR10	23JUN10		289	31,617.80						
R54-60	Procurement	90	11DEC09	27APR10		239	36,862.40						
R54-70	UNT - Timing & Seq Emulation (FPGA Pgm)	90	02NOV09*	19MAR10		356	12,473.60						
R54-80	UNT - Device Driver Prog (EPICS/MDSplus)	120	17FEB10	05AUG10		229	25,657.60						
R54-90	Central Clock (EPICS) Programming	30	06AUG10	17SEP10		229	12,828.80						
R54-100	Installation	90	28APR10	02SEP10		239	27,987.20						
R54-110	Test	14	20SEP10	07OCT10		229	9,648.66						
<b>55 - Real Time Plasma &amp; Power Supply Control Sys</b>													
<b>Job: 5501 - Real Time Control System-SICHTA</b>													
R55-10	FCPC - Preliminary Design	30	03AUG09*	14SEP09		300	6,203.60						
R55-11	PDR	0		14SEP09		300	0.00						
R55-20	FCPC -Final Design	60	15SEP09	09DEC09		300	12,744.48						
R55-21	FDR	0		09DEC09		300	0.00						
R55-30	FCPC - Procurement	60	10DEC09	15MAR10		300	13,683.20						
R55-40	FCPC LabVIEW Programming	30	26MAR10	06MAY10		322	19,243.20						
R55-45	FCPC PLC Integration-EPICS Prog.	30	26MAR10	06MAY10		322	6,414.40						
R55-50	FCPC - Installation	60	16MAR10	08JUN10		300	9,532.80						
R55-60	FCPC -Test	14	09JUN10	28JUN10		300	7,973.60						
R55-70	GISRTC - Preliminary Design	30	01JUL09*	12AUG09		292	6,203.60						
R55-71	PDR	0		12AUG09		292	0.00						
R55-80	GISRTC -Final Design	60	13AUG09	05NOV09		292	3,147.47						
R55-81	FDR	0		05NOV09		292	0.00						
R55-90	GISRTC - Procurement	60	06NOV09	11FEB10		292	13,683.20						
R55-100	GISRTC LabVIEW Programming	30	12FEB10	25MAR10		292	19,243.20						
R55-110	GISRTC - Installation	60	26MAR10	18JUN10		292	7,829.28						
R55-120	GISRTC -Test	14	21JUN10	09JUL10		292	3,207.20						



Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost						
								FY07	FY08	FY09	FY10	FY11	FY12
<b>56 - Central Safety and Interlock Systems</b>													
<b>Job: 5601 - Central Safety &amp; Interlock Sys-SICHTA</b>													
R56-10	Requirements, Codes&Standards	60	01JUL09*	24SEP09		246	6,203.60						
R56-20	Preliminary Design	30	25SEP09	05NOV09		246	6,386.29						
R56-21	PDR	0		05NOV09		246	0.00						
R56-30	PLC Training	60	06NOV09	11FEB10		366	15,374.80						
R56-35	Final Design	30	06NOV09	21DEC09		246	22,450.40						
R56-36	FDR	0		21DEC09		246	0.00						
R56-40	Procurement	60	22DEC09	25MAR10		246	50,126.40						
R56-50	PLC Programming	90	26MAR10	02AUG10		246	19,243.20						
R56-60	Installation	70	26MAR10	02JUL10		266	87,412.00						
R56-70	Test	30	03AUG10	14SEP10		246	15,947.20						
<b>58 - Central I&amp;C management and Integration</b>													
<b>Job: 5801 - Central I&amp;C Integr&amp; Oversight-SICHTA</b>													
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						
<b>6 - Facility Systems</b>													
<b>61 - Water Systems</b>													
<b>Job: 6101 - Water Systems-DUDEK</b>													
<b>613 - Vacuum Pumping System</b>													
<b>20</b>													
6101-100	Design Vac Pmp water sys	20	01OCT08*	28OCT08		487	13,183.60						
6101-105	Procure Hardware and materials Vac Pmp water sys	90	29OCT08	16MAR09		487	7,459.09						
6101-110	Fabricate and Install Vac Pmp water sys	40	17MAR09	11MAY09		487	24,362.82						
6101-115	Test Vac Pmp water sys	22	12MAY09	11JUN09		487	4,622.40						
<b>62 - Cryogenic Systems</b>													
<b>Job: 6201 - Cryogenic Systems-DUDEK</b>													
<b>621 - LN2-LHe Supply System</b>													
621-101	LN2 - LHe Supply-Preliminary Design	20	01OCT08*	28OCT08		450	9,256.72						
621-121	LN2 - LHe Supply-Final Design	20	29OCT08	25NOV08		451	10,244.08						
621-131	LN2 - LHe Supply-Procure Hardware & Materials	65	13OCT09*	25JAN10		345	40,282.16						
621-141	LN2 - LHe Supply-Fabricate & Assembly	35	26JAN10	15MAR10		345	20,272.00						



Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year						
								FY07	FY08	FY09	FY10	FY11	FY12	
621-151	LN2 - LHe Supply-Title III	100	13OCT09	15MAR10		345	7,529.72							
<b>622 - LN2 Coil Cooling Supply</b>														
622-101	LN2 Coil Cooling Supply-Prelim Design	20	01OCT08*	28OCT08		450	10,984.60							
622-121	LN2 Coil Cooling Supply-Final Design	20	29OCT08	25NOV08		451	10,984.60							
622-131	LN2 Coil Cooling Supply-Procure Hardware	65	13OCT09*	25JAN10		330	22,697.20							
622-141	LN2 Coil Cooling Supply-Assemble Skid	25	26JAN10	01MAR10		330	18,158.80							
622-151	LN2 Coil Cooling Supply-Relocate skid to NCSX TC	25	02MAR10	05APR10		330	18,158.80							
622-161	LN2 Coil Cooling Supply-Title III	115	13OCT09	05APR10		330	7,529.72							
<b>623 - GN2 Cryostat Cooling System</b>														
623-100	GN2 Cryostat Cooling Sys Development	30	05DEC08*	26JAN09		365	87,993.60							
623-101	GN2 Cryostat Cooling Sys-Preliminary Design	30	02FEB09*	13MAR09		361	18,176.80							
623-121	GN2 Cryostat Cooling Sys-Analysis	30	19MAY09*	30JUN09		285	30,593.60							
623-141	GN2 Cryostat Cooling Sys-WBS 62/171 PDR	1	01JUL09	01JUL09		285	1,324.00							
623-161	GN2 Cryostat Cooling Sys-Final Design	20	02JUL09	30JUL09		285	16,942.60							
623-181	GN2 Cryostat Cooling Sys-WBS 62/171 FDR	1	12OCT09	12OCT09		235	1,369.04							
623-201	GN2 Cryostat Cooling Sys-Procure Hardware	88	13OCT09	25FEB10		235	152,765.76							
623-221	GN2 Cryostat Cooling Sys-Assemble & Install	122	26FEB10	18AUG10		235	156,307.20							
623-261	WBS 62/171 Cryo systems PTP	10	19AUG10	01SEP10		235	13,666.00							
623-262	GN2 Cryostat Cooling Supply-Title III	258	13OCT09	26OCT10		484	8,233.73							
<b>63 - Utility Systems</b>														
<b>Job: 6301 - Utility Systems-DUDEK</b>														
6301-001	Vac Vent and Air sys- Prelim Dsn	20	06OCT08*	31OCT08		514	24,740.40							
6301-005	Vac Vent and Air sys- PDR	1	03NOV08*	03NOV08		514	1,324.00							
6301-009	Vac Vent and Air sys- Final dsn	10	04NOV08*	17NOV08		514	13,183.60							
6301-010	Vac Vent and Air sys- FDR	1	18NOV08*	18NOV08		514	1,324.00							
6301-013	Vac Vent and Air sys- Procure hardware and compo	60	19NOV08	23FEB09		514	34,309.43							
6301-017	Vac Vent and Air sys- Fabricate and Install	40	24FEB09*	20APR09		514	37,130.20							
6301-020	Vac Vent and Air sys-Test	10	21APR09*	04MAY09		514	4,622.40							
<b>64 - PFC/VV Heating &amp; Cooling (Bakeout)</b>														
<b>Job: 6401 - PFC/VV Htng/Cooling(bakeout)- DUDEK</b>														
6401-000	Bakeout Sys- Requirements Definition	15	05MAR09*	25MAR09		379	13,240.00							
6401-001	Bakeout Sys-Preliminary Design	30	26MAR09*	06MAY09		379	39,966.40							
6401-002	Bakeout Sys-PDR	1	07MAY09*	07MAY09		379	1,324.00							
6401-004	Bakeout Sys- EA Analysis	30	08MAY09	19JUN09		379	30,593.60							

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
6401-005	Bakeout Sys-Final Design	40	22JUN09*	17AUG09		379	39,966.40						
6401-009	Bakeout Sys-FDR	1	18AUG09*	18AUG09		379	1,324.00						
6401-010	Bakeout Sys-Procure Piping & Equipt	65	19AUG09*	18NOV09		379	223,523.30						
6401-013	Assemble & Install	65	19NOV09*	03MAR10		379	171,372.60						
6401-017	Bakeout Sys- ACC Review	10	04MAR10*	17MAR10		379	10,255.60						
6401-020	Bakeout Sys-PTP Testing	10	18MAR10*	31MAR10		379	17,076.40						
<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	65	03OCT08	14JAN09		248	3,004.40						
712.020	Platform Parts	65	03OCT08	14JAN09		248	34,225.00						
712.030	Miscs Hardware/Material	65	03OCT08	14JAN09		248	22,352.00						
7301-100	Survey & layout locations for platform posts	10	23DEC08	14JAN09		248	25,252.80						
7301-102	Machine platform trial assembly & fitup	20	15JAN09*	11FEB09		248	119,740.80						
<b>74 - Machine Assembly Planning and Oversight</b>													
<b>Job: 7401 - TC Prep &amp; Mach Assy Planning-PERRY</b>													
7401ACPWR	Prior ac pwr work reclassified as gpp	356	01MAY07A	31MAY07A			-308,300.00						
1802ORNLF	ORNLF Title III final machine assy	450*	03APR09	26JAN11		212	382,808.18						
714.020	LOE Prior to assy starting	356	01OCT07*	10MAR09		926	32,389.94						
714.025	Update Final Assembly Plan	45	27JAN09*	30MAR09		215	26,480.00						
7502-001	Test Cell 110/208voutlets GPP SCOPE TO COMPLETE	65	02JAN09*	02APR09		212	0.00						
714.030	LOE Start of assy through thru completion	450*	03APR09	26JAN11	LOE	212	964,568.94						
714.031	Additional supervision for 2nd shift	278	13JAN10	04FEB11	2	430	331,915.94						
<b>75 - Test Cell and Basement Assembly Operations</b>													
<b>Job: 7501 - Construction Support Crew-PERRY</b>													
7501-06	Construction Support Crew for 2nd shift	265	06JAN10	11JAN11	2	448	540,636.69						
7501-05	Construction Support Crew during machine assy	472*	03APR09	26JAN11		215	895,944.10						
<b>Job: 7503 - Machine Assembly (station 6)-PERRY</b>													
7501-10	Fabricate/Assemble assembly structure	65	06OCT08	15JAN09	1	212	239,444.80						

EM/EM =152hr ; EA/SB =120hr ;  
EM/EM =08hr ;  
EM/EM =80hr ; 41=148\$ ;  
EM/TB =2,010hr ;  
EM/EM =40hr ; EM/TB =40hr ;  
EM/EM =40hr ; EM/TB =120hr ;

EM/TB =36hr ; 41=00\$ ;  
EM/EM =32hr ; 41=03\$ ;  
EM/TB =300hr ;  
41=16\$ ;  
EM/EM =40hr ; EM/SM =40hr ;  
EM/TB =160hr ;  
EM/EM =48hr ; EM/SM =240hr ;  
EM/TB =960hr ;

ORNLEM =1670;ornldm=835  
travel=12  
EM/EM =120hr ; EE/SM =90hr ;  
EM/EM =160hr ;  
Perry 1.0 fte Langella 1.0 fte  
2nd shift supervision 1.0 fte

Tool Crib Control em/tb=(.75 fte)  
Crane Operator & support em/tb= (1.0 fte)  
Forklift Operator & support em/tb= (1.0 fte)  
Tool Crib Control em/tb=  
Crane Operator & support  
Forklift Operator & support

EM/EM =96hr ; EM/TB =960hr ;  
EM/SM =240hr ; 41=80\$ ;





Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	FY07												FY08												FY09												FY10												FY11												FY12											
7503-415	Re-install spacers	2	04MAR10	05MAR10	1	216	7,706.24																																																																								
7503-160	Position all FPA's / Spool Pieces @ MC Interface	6	08MAR10	15MAR10	1	216	31,956.24																																																																								
7503-090	Install local Platforms around FPA-1	4	16MAR10	19MAR10	1	216	15,412.48																																																																								
7503-130	Install local Platforms around FPA-2	4	22MAR10	25MAR10	1	216	15,412.48																																																																								
7503-190	Install local Platforms around FPA-3	4	26MAR10	31MAR10	1	216	15,412.48																																																																								
7503-415.5	MC Interface: meas holes/mark bushings f/drilling	3	16MAR10	18MAR10	1	222	11,559.36																																																																								
7503-415.6	drill eccentric custom holes in bushings	3	19MAR10	23MAR10	1	222	116,095.36																																																																								
7503-416	Position Spool pieces and Bolt MC flanges	9	07APR10	19APR10	2	212	39,640.85																																																																								
7503-417	Retorque all super nuts after 30 days	6	19MAY10	26MAY10	2	212	79,281.70																																																																								
7503-418	Raise permanent supports to take machine loads	8	20APR10	29APR10	2	215	114,363.36																																																																								
7503-419	Remove temporary assy structure	1	30APR10	30APR10	2	215	11,559.36																																																																								
7503-419.1	Install/Level FPA's and spool piece supports	15	03MAY10	21MAY10	2	215	159,781.20																																																																								
7503-419.2	FPA Metrology checks to assure alignment	3	27MAY10	01JUN10	2	212	14,729.20																																																																								
7503-420	Mate-up and Weld spacers onto vsvsa	15	02JUN10	22JUN10	2	212	171,865.20																																																																								
7503-422	Weld all six port 4's in place	15	23JUN10	14JUL10	2	212	91,810.80																																																																								
7503-422.1	Install E-Beam mapping & diag equipt	5	15JUL10	21JUL10	2	212	45,376.40																																																																								
7503-240	Install Vacuum pumping system	3	15JUL10	19JUL10	2	214	19,265.60																																																																								
7503-250	Begin Vac Vsl Pumpdown	0	22JUL10		2	212	0.00																																																																								
7503-260	PTP Pumpdown & leak check VV	8	22JUL10	02AUG10	2	212	57,796.80																																																																								
7503-424	Install TF alingment & traction ring	4	03AUG10	06AUG10	2	212	40,467.27																																																																								
7503-426	Pull TF coil radially inward. Verify nose fit up	5	09AUG10	13AUG10	2	212	40,467.27																																																																								
7503-428	Lock TF coils at four support locations	4	16AUG10	19AUG10	2	212	40,467.27																																																																								
7503-430	Install MC structure insulation boots port 4's	5	20AUG10	26AUG10	2	212	38,531.20																																																																								
7503-431	Seal gaps MC shims,cooling tubes, for insul pour	10	27AUG10	10SEP10	2	212	77,062.40																																																																								
7503-432	Fill MC/VVSA annulus with pourable aerogel insul	1	13SEP10	13SEP10	2	212	7,706.24																																																																								
7503-433.1	Install LN2 manifolds	5	14SEP10	20SEP10	2	228	38,531.20																																																																								
7503-434	Instl in-cryostat cabling for elect pwr to coils	8	14SEP10	23SEP10	2	212	52,172.80																																																																								
7503-436	Connect cabling, and I&C to MC & TF Coils	8	24SEP10	05OCT10	2	212	52,838.20																																																																								
7503-439	Complete mag diag & machine I&C	5	06OCT10	12OCT10	2	212	51,472.00																																																																								
7503-438	Align guide mechanism for solenoid installation	1	13OCT10	13OCT10	2	212	7,819.94																																																																								
7503-444	Install solenoid support structure	1	14OCT10	14OCT10	2	212	7,148.43																																																																								
7503-440	Install solenoid assembly	1	15OCT10	15OCT10	2	212	7,148.43																																																																								
7503-442	Connect cabling, LN2 and I&C to solenoid assy	1	18OCT10	18OCT10	2	212	3,984.16																																																																								

EM//SM =16hr ; EM//TB =64hr ;

EA//EM =24hr ; EM//TB =192hr ;  
EM//SM =48hr ; EM//TB =48hr ;

EM//TB =128hr ; EM//SM =32hr ;

EM//TB =128hr ; EM//SM =32hr ;

EM//TB =128hr ; EM//SM =32hr ;

EM//SM =24hr ; EM//TB =96hr ;

EM//SM =24hr ; EM//TB =96hr ;  
41=73Sk ;

EM//EM =29hr ; EM//SM =72hr ;  
EM//TB =288hr ;

EM//EM =29hr ; EM//SM =72hr ;  
EM//TB =288hr ;

EM//TB =180hr ; EM//EM =72hr ;  
EM//SM =180hr ; EM//TB =720hr ;

EM//SM =24hr ; EM//TB =96hr ;

EA//EM =120hr ; EM//TB =240hr ;  
EM//SM =240hr ; EM//TB =960hr ;

EA//EM =40hr ; EM//TB =40hr ;  
EM//TB =40hr ;

EM//TB =180hr ; EM//SM =240hr ;  
EM//TB =1,440hr ;

EM//TB =60hr ; EM//SM =180hr ;  
EM//TB =720hr ;

EM//EM =40hr ; EM//SM =80hr ;  
EM//TB =320hr ;

EM//SM =40hr ; EM//TB =160hr ;

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PUMP DOWN OF VACUUM VESSEL  
DOE LEVEL 2 MILESTONE  
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EM//SM =120hr ; EM//TB =480hr ;

EA//EM =13hr ; EM//TB =67hr ;  
EM//SM =67hr ; EM//TB =267hr ;

EA//EM =13hr ; EM//TB =67hr ;  
EM//SM =67hr ; EM//TB =267hr ;

EA//EM =13hr ; EM//TB =67hr ;  
EM//SM =67hr ; EM//TB =267hr ;

EM//SM =80hr ; EM//TB =320hr ;

EM//SM =160hr ; EM//TB =640hr ;

EM//SM =16hr ; EM//TB =64hr ;

EM//SM =80hr ; EM//TB =320hr ;

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

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 ;

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	FY12
7503-446	Install PF4L	1	19OCT10	19OCT10	2	212	3,984.16						
7503-448	Connect cabling, LN2 and I&C to PF4L	1	20OCT10	20OCT10	2	212	3,984.16						
7503-450	Adjust spring compression in solenoid sprt struc	1	21OCT10	21OCT10	2	212	3,984.16						
7503-451	Raise lower PF 5&6 coils into final position	3	22OCT10	26OCT10	2	212	28,811.28						
7503-452	Instl Upper PF 4, 5 & 6	3	27OCT10	29OCT10	2	212	28,811.28						
7503-330	Begin Cryostat Installation	0	01NOV10		2	212	0.00						
7503-454	Install cryostat base, vapor barrier port boots	5	01NOV10	05NOV10	2	212	39,841.60						
7503-456	Install elec pwr, LN2, & instr feedthrus	3	08NOV10	10NOV10	2	212	19,920.80						
7503-458	Integrated Electrical testing	5	11NOV10	17NOV10	2	212	53,997.60						
7503-460	Instl transition box,cabling,&connect to pwr sup	5	18NOV10	24NOV10	2	246	39,841.60						
7503-462	LN2 connections from coils to manifolds	5	18NOV10	24NOV10	2	220	39,841.60						
7503-464	Connect coil & VV instrumentation	5	18NOV10	24NOV10	2	212	39,841.60						
7503-466	Connect 150C bakeout	3	29NOV10	01DEC10	2	212	19,920.80						
7503-470	Install cryostat cooling syst & instrumentation	10	09DEC10	22DEC10	2	212	159,366.40						
7503-471	Install cryostat upper section, VB & port boots	5	23DEC10	06JAN11	2	212	39,841.60						
7503-472	Install midplane cryostat sections & port boots	8	07JAN11	18JAN11	2	212	59,762.40						
7503-473	Install cryostat circulation duct	3	19JAN11	21JAN11	2	212	19,920.80						
730.8200	PTP and Cool down	3	24JAN11	26JAN11	2	212	68,103.20						
<b>76 - Tooling Design &amp; Fabrication</b>													
<b>Job: 7601 - Tooling Design &amp; Fabrication-PERRY</b>													
713.020	Lab Fab/Assy/Installation	348	03APR09*	24AUG10		334	31,156.73						
713.030	Tooling,assy fixtures,misc equipt	348	03APR09*	24AUG10		334	85,159.66						
713.040	General procurements	348	03APR09*	24AUG10		334	63,869.74						
713.050	Welding tools, materials & equipt	348	03APR09*	24AUG10		334	113,546.21						
713.060	Torque wrenches and multipliers	348	03APR09*	24AUG10		334	120,309.87						
<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						

EM//SM =08hr ; EM//TB =32hr ;  
EM//SM =08hr ; EM//TB =32hr ;  
EM//SM =08hr ; EM//TB =32hr ;  
EA//EM =24hr ; EM//SM =48hr ;  
EM//TB =192hr ;  
EA//EM =24hr ; EM//SM =48hr ;  
EM//TB =192hr ;  
\*\*\*\*\*  
BEGIN CRYOSTAT INSTALLATION  
DOE LEVEL 2 MILESTONE  
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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 =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 ;

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

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost						
								FY07	FY08	FY09	FY10	FY11	FY12
810.005	Project Management Office PPPL FY07 (LOE)	102*	01MAY07	24SEP07		1,253	314,353.09	Hutch =.85 fte rate ; Strykowski =.85 fte rate B///CB =.4 fte rate ; 35=3\$K ; 41=04\$K ; deputy proj cntrl=.5fte rate					
810.900	Project Management Office PPPL FY08 (LOE)	250*	01OCT07*	30SEP08		999	895,410.81	Hutch =.50 fte rate ; Strykowski =.85fte rate Pam =.8 fte rate ; 35=10\$K ; 41=10\$K ; cnstr mgr=.75 fte rate, deputy proj=.5fte rate					
810.901	Project Management Office PPPL FY09 (SA LOE)	340	01OCT08*	18FEB10		411	1,385,862.31	Hutch =.50 fte rate ; Strykowski =.85 fte Pam =.8 fte rate ; 35=10\$K ; 41=10\$K ; cnstr mgr=1.0 fte rate, deputy proj=.5fte					
810.909	Project Management Office PPPL FY10 (LOE)	248	19FEB10	16FEB11		411	933,749.03	Hutch =.25 fte ; Strykowski=.85 fte 35=06\$K ; Pam =.8 fte 41=08\$K ; cnstr mgr=1.0 fte rate, deputy proj=.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	158,720.00	ORNL81 =\$13.5k/mo.					
810.105Z	Project Management Office ORNL FY09 (LOE)	340	02OCT08*	19FEB10		410	217,600.00	ORNL81 =\$13.5k/mo.					
810.106X	Project Management Office ORNL FY10 (SA LOE)	248	22FEB10	17FEB11		410	60,000.00	ORNL81 =8.4/mo\$ ;					
<b>82 - Project Engineering</b>													
<b>Job: 8202 - Engr Mgmt &amp; Sys Eng Support-REIERSEN</b>													
FY07 Rebaseline Exercise													
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	135,454.16	reiersen=.5 fte loe ; heitzenroeder=.5 fte loe such=.1 fte loe					
820.04Y	Engr management (SA LOE)	843*	01OCT07*	23FEB11		406	648,309.13	reiersen=.5 fte loe ; st					
820.04Z	RLM (WBS 13,15,17) (SA LOE)	853*	01MAY07*	30SEP10		502	168,408.48	reiersen=.15 fte loe					
820.004Z	Reqmnts mgt & design verification	975*	01MAY07*	31MAR11		380	187,828.65	reiersen=850 hours					
820-004Y	RLM (WBS 2,3 & 6) (SA LOE)	747*	01OCT07*	30SEP10		502	128,801.13	Dudek=.15 fte loe					
820.004X	RLM (fabrication) (SA LOE)	949*	01MAY07*	23FEB11		406	650,600.83	Dudek=.60 fte loe					
820.005	RLM (WBS 4 & 5) (SA LOE)	842*	02OCT07*	23FEB11		406	157,859.43	vonhalle=.15fte loe					
8205FY07	Systems Engineering Support document control	975*	01MAY07*	31MAR11		380	162,913.78	simmons=.850hrs					
8205FY08	Systems Engineering Support (SA LOE)	949*	01MAY07*	23FEB11		406	188,818.77	simmons=.15 fte loe					
8205FY08X	Systems Engineering Support FY09	1	01OCT08*	01OCT08		997	0.00						
8205FY09	Systems Engineering Support FY10	1	02OCT08	02OCT08		997	0.00						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost						
								FY07	FY08	FY09	FY10	FY11	FY12
<b>Job: 8203 - Design Integration-BROWN</b>													
8203FY07	Design Integration ,& metro support	975*	01MAY07*	31MAR11		380	985,692.58	brown=2720hrs; El Morris=2700					
8203FY08	CAD Support (SA LOE)	949*	01MAY07*	23FEB11		406	375,821.97	Brown =.2 fte loe; E					
8203FY08X		1	01OCT08*	01OCT08		997	0.00						
8203FY09		1	02OCT08	02OCT08		997	0.00						
<b>Job: 8204 - Systems Analysis-BROOKS</b>													
8204FY07	Systems Analysis FY07 Analysis for structure dsn	106*	01MAY07	28SEP07		1,249	225,964.50	brooks=.9 fte fan=320hrs ea/em=.4 fte					
8204FY08	Systems Analysis, studies and tech assurance	975*	01MAY07*	31MAR11		380	1,103,980.44	Brooks=3060 hrs Fan =1340 hrs EA/EM=1360					
8204FY08X		1	01OCT08*	01OCT08		997	0.00						
8204FY09		1	02OCT08	02OCT08		997	0.00						
<b>Job: 8205 - Dimensional Control Coordin-REIERSEN</b>													
METFY07R1	Dimensional control plans for station 2	65	01MAY07	01AUG07		226	85,348.80	EA//EM =480hr ;					
METDCP-3	Dimensional control plans for station 3	80	02AUG07	22NOV07		226	29,069.70	EA//EM =160hr ;					
METDCP-5	Dimensional control plans for station 5	80	23NOV07	26MAR08		290	59,443.20	EA//EM =320hr ;					
METDCP-6	Dimensional control plans for station 6	80	27MAR08	18JUL08		341	89,164.80	EA//EM =480hr ;					
METFY08R	Support FPA Station 2	378*	26JUL07	04FEB09		266	89,267.92	ellis =240 hr ea//em=240hrs					
METFY08RX	Support FPA Station 3	327*	23JAN08	11MAY09		245	90,364.80	ellis =240 hr ea//em=240hr					
METFY09	Support FPA Station 5	307*	04AUG08	23OCT09		238	61,069.46	ellis =160hr ea//em=160hr					
METFY10	Support Final Machine Assy	450*	03APR09	26JAN11		212	94,571.96	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	Plant Design FY07	106*	01MAY07*	28SEP07		1,249	24,296.28	EM//EM =40hr ; EA//SB =136hr ; EM//SM =20hr ;					
8210-08	Plant Design FY08	250*	01OCT07*	30SEP08		999	33,874.08	EM//EM =96hr ; EA//SB =48hr ; EM//SM =96hr ;					
8210-08X	Plant Design FY09	290	01OCT08*	30NOV09		461	40,215.96	EM//EM =.055fte rate ; EA//SB =.03 fte rate EM//SM =.055 fte rate					
8210-09	Plant Design FY10	248	01DEC09	30NOV10		461	36,254.51	EM//EM =96hr ; EA//SB =48hr ; EM//SM =96hr ;					

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost						
								FY07	FY08	FY09	FY10	FY11	FY12
<b>85 - Integrated Systems Testing</b>													
<b>Job: 8501 - Integrated Systems Testing-GENTILE</b>													
<b>Startup Documentation</b>													
8501-105	ESHD-5008 Environ, Safety, and Health Manual	0	01MAY07A	01MAY07A			0.00	EM//EM =00hr ; EM//SM =00hr ;					
8501-109	ESH-014 NEPA Review System	0	01MAY07A	01MAY07A			0.00	EM//EM =00hr ; EM//SM =00hr ;					
8501-113	ESH-016 Cntrl Haz Energy Sources Lockout Tagout	0	01MAY07A	01MAY07A			0.00	EM//EM =00hr ; EM//SM =00hr ;					
8501-117	ENG-030 PPPL Tech Procd for Exper Facilities	0	01MAY07A	01MAY07A			0.00	EM//EM =00hr ; EM//SM =00hr ;					
8501-121	ENG-032 PPPL Work Planning Procedure	0	01MAY07A	01MAY07A			0.00	EM//EM =00hr ; EM//SM =00hr ;					
8501-125	ENG-033 PPPL Engineering Design Verification	0	01MAY07A	01MAY07A			0.00	EM//EM =00hr ; EM//SM =00hr ;					
8501-101	SAD NCSX Safety Assessment Document (SAD)	45	03NOV08*	15JAN09		427	48,236.80	EM//EM =160hr ; EM//SM =160hr ;					
8501-129	NCSX-XX, Administrative Control of Procedures	30	24NOV08	15JAN09		413	24,118.40	EM//EM =80hr ; EM//SM =80hr ;					
8501-133	OP-AD-39, Conduct of Operations	10	16JAN09	29JAN09		413	6,029.60	EM//EM =20hr ; EM//SM =20hr ;					
8501-137	OP-AD-56, Cntrl Equipt & Syst Status (chain of c	10	23JAN09	05FEB09		413	6,029.60	EM//EM =20hr ; EM//SM =20hr ;					
8501-141	OP-AD-24, Cntrl Workplace Cleanliness D-Site Exp	10	30JAN09	12FEB09		413	6,029.60	EM//EM =20hr ; EM//SM =20hr ;					
8501-145	OP-AD-31, D- Site Fire Watch Requirements	10	06FEB09	19FEB09		413	6,029.60	EM//EM =20hr ; EM//SM =20hr ;					
8501-149	OP-AD-03, Experimental Proposals for NCSX	10	13FEB09	26FEB09		413	6,029.60	EM//EM =20hr ; EM//SM =20hr ;					
8501-153	OP-AD-117 Operation of the NCSX Access System	10	20FEB09	05MAR09		413	6,029.60	EM//EM =20hr ; EM//SM =20hr ;					
8501-157	NCSX-OP-XX, Prep of Exper Areas for Machine Ops	30	27FEB09	09APR09		413	18,088.80	EM//EM =60hr ; EM//SM =60hr ;					
8501-161	NCSX-OP-XX, Operation of the NCSX TVPS	30	20MAR09	30APR09		413	18,088.80	EM//EM =60hr ; EM//SM =60hr ;					
8501-165	NCSX-OP-XX, Testing NCSX HIS Safe for Access	30	10APR09	21MAY09		413	18,088.80	EM//EM =60hr ; EM//SM =60hr ;					
8501-169	NCSX-OP-XX, Testing the NCSX Emergency Stop Syst	30	01MAY09	12JUN09		413	18,088.80	EM//EM =60hr ; EM//SM =60hr ;					
8501-173	NCSX-OP-XX, NCSX Training Matrix	30	22MAY09	06JUL09		413	18,088.80	EM//EM =60hr ; EM//SM =60hr ;					
8501-177	NCSX-OP-XX, NCSX Ops Guide -Startup and Shutdown	30	15JUN09	27JUL09		413	18,088.80	EM//EM =60hr ; EM//SM =60hr ;					
8501-181	NCSX-OP-XX, HPP Daily Operations	20	14JUL09	10AUG09		413	12,059.20	EM//EM =40hr ; EM//SM =40hr ;					
8501-185	NCSX-OP-XX, ACP & PDP Trip Control Settings	20	28JUL09	24AUG09		413	12,059.20	EM//EM =40hr ; EM//SM =40hr ;					
8501-189	NCSX-OP-G-XX Preparation for NCSX pumpdown	30	11AUG09	22SEP09		413	18,088.80	EM//EM =60hr ; EM//SM =60hr ;					
8501-193	NCSX-OP-XX Helium H/C System Operations Procedur	30	01SEP09	13OCT09		413	18,273.30	EM//EM =60hr ; EM//SM =60hr ;					
8501-197	NCSX-OP-G-XX Daily Hi-Pot Test Vacuum Vessel	30	23SEP09	03NOV09		413	18,580.80	EM//EM =60hr ; EM//SM =60hr ;					
8501-201	ISTP-NCSX-01 Coil EnergizationTests	40	14OCT09	10DEC09		413	24,938.40	EM//EM =80hr ; EM//SM =80hr ;					
8501-205	OP-ECS-245 FCPC Daily Startup/Shutdown Procedure	20	25NOV09	05JAN10		413	12,469.20	EM//EM =40hr ; EM//SM =40hr ;					
8501-209	NCSX-XX Leak Checking of NCSX	20	11DEC09	19JAN10		413	12,469.20	EM//EM =40hr ; EM//SM =40hr ;					
920.000	Startup Personnel	74*	02NOV10	23FEB11	1	212	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	02NOV10	08NOV10	1	212	0.00						
8501-103	PTP's complete for ECS,HCS,vac pmpg	5	09NOV10	15NOV10	1	212	0.00						
8501-104	ACC review and ORA	5	16NOV10	22NOV10	1	212	0.00						



Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost								
								FY07	FY08	FY09	FY10	FY11	FY12		
8501-301	Configure for Startup ISTP	5	23NOV10	01DEC10	1	212	0.00								
8501-305	Coil Testing at room temp	5	02DEC10	08DEC10	1	212	0.00								
730.1250	PSO Operational Readiness Assessment	0		22NOV10	1	212	0.00								
8501-106	Coil testing @ cryo temp, Pump-down VV	5	27JAN11	02FEB11	1	212	0.00								
8501-107	Combined field testing, Make 1st Plasma	5	03FEB11	09FEB11	1	212	0.00								
8501-108	Vent VV, Config for & instl e-beam mapping	5	10FEB11	16FEB11	1	212	0.00								
8501-306	E-beam mapping	5	17FEB11	23FEB11	1	212	0.00								
8501-110	NCSX Startup Complete	0		23FEB11	1	212	0.00								
730.9000	CD-4	0		23DEC11*	1	0	0.00								

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 COMPLETE OPERATIONAL READINESS ASSESSMENT  
 DOE LEVEL 2 MILESTONE  
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 COMPLETE CD-4  
 DOE LEVEL 1 MILESTONE  
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### 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

### Contingency

#### Contingency

Contingency-Project

C08	Contingency FY08		249*	01OCT07*	29SEP08		1,000	3,400,000.00
C09	Contingency FY09		247*	01OCT08*	28SEP09		752	4,200,000.00
C10	Contingency FY10		246*	01OCT09*	28SEP10		504	4,200,000.00
C11	Contingency FY11		248*	01OCT10*	28SEP11		254	3,293,000.00

### + Funding

			1,014	04SEP07	28SEP11		254	89,271,000.00
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### + Actual Cost

			1,028	01APR03A	30APR07A			67,305,750.00
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