

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost					
								FY07	FY08	FY09	FY10	FY11
cc 9450 - NCSX Fabrication (MIE)												
1 - Stellarator Core Systems												
12 - Vacuum Vessel Systems												
Job: 1204 - VV Sys Procurements (nonVVSA)-DUDEK												
VV Vertical Supports												
124-037	PPPL Fab VV Vert. Sprts (log # M1091) (complet	197	01MAY07A	01MAY07A			0.00					
VV Personnel Access Port & Lateral sprts												
124-110	Issue req,Bid & Award VV NB port cover	25	01OCT09*	04NOV09			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 ;	
VV Local I&C												
1204-101	Drawings Signed -Local I&C	0		01MAY07*			582	0.00				
1204-105	Issue req,Bid & Award -Local I&C	25	02MAY07	06JUN07			582	0.00				
1204-109	Award -Local I&C	0		06JUN07			582	0.00				
1204-113	Deliver -Local I&C	40	07JUN07	02AUG07			582	34,400.96			41=27\$k ;	
Thermal Insulation												
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			304	0.00				
122-041	Award Port Thermal Insulation	0		01APR08*			304	0.00				
122-051	Deliver Port Thermal Insulation	40	02APR08	28MAY08			304	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 ;	
Heater Tape for Port Stub												
1204-121	Drawings Signed Heater Tape for port stubs	0		04SEP07*			332	0.00				
1204-125	Issue req,Bid & Award -Heater Tape for port stub	25	05SEP07	09OCT07			332	0.00				
1204-129	Award Heater Tape for port stubs	0		09OCT07			332	0.00				
1204-130	Deliver Heater Tape for port stubs	40	10OCT07	06DEC07			332	20,143.20			41=15\$k ;	
T/C and Heater Tape Leads												
1204-145	Issue req,Bid & Award-T/C and Heater Tape Leads	25	29AUG07	03OCT07			328	0.00				
1204-149	Award T/C and Heater Tape Leads	0		03OCT07			328	0.00				

Run Date 22JUN07 15:10



ETCZ

NCSX Project
Resource Loaded Schedule
June 22,2007

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Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year				
								FY07	FY08	FY09	FY10	FY11
1204-153	Deliver T/C and Heater Tape Leads	40	04OCT07	28NOV07		328	36,951.00	41=28.25\$K ;				
Flux loop junction boxes and spacer templates												
1204-173M	Material Delivery (desifn/fab in job 3101)	35	20JUN07	08AUG07		379	12,275.12	41=9.62				
Subtotal		0		20APR10		312	414,650.60					
Job: 1250 - Vacuum Vessel Fabrication**CLOSED**												
99.07W	Scrap value of Kirksite dies (minimum sale price)	22*	01MAY07A	31MAY07A			-161,694.72					
Subtotal		22	01MAY07A	31MAY07A			-161,694.72					
13 - Conventional Coils												
Job: 1361 - TF Fabrication-KALISH												
TF Title III and Fabrication Oversight												
131-033	Title III engr	177*	01MAY07	18JAN08		732	164,246.27	EA/EM =788hr ; 35=05\$K ; 41=8 em/tb=68				
TF Fabrication Contract												
1361C-101	Fab, Test & Deliver Coil #1	28*	29MAY07*	06JUL07		608	27,210.00	48=27 ;				
1361C-102	Fab, Test & Deliver Coil #2	31*	01JUN07*	16JUL07		602	43,590.00	48=44 ;				
1361C-103	Fab, Test & Deliver Coil #3	44*	01JUN07*	02AUG07		602	47,210.00	48=47 ;				
1361C-104	Fab, Test & Deliver Coil #4	1	13AUG07*	13AUG07		595	47,210.00	48=47 ;				
1361C-105	Fab, Test & Deliver Coil #5	1	24AUG07*	24AUG07		698	47,210.00	48=47 ;				
1361C-106	Fab, Test & Deliver Coil #6	1	04SEP07*	04SEP07		692	47,210.00	48=47 ;				
1361C-107	Fab, Test & Deliver Coil #7	1	17SEP07*	17SEP07		692	47,210.00	48=47 ;				
1361C-108	Fab, Test & Deliver Coil #8	1	27SEP07*	27SEP07		684	47,210.00	48=47 ;				
1361C-109	Fab, Test & Deliver Coil #9	1	08OCT07*	08OCT07		688	48,390.25	48=47 ;				
1361C-110	Fab, Test & Deliver Coil #10	1	18OCT07*	18OCT07		680	48,390.25	48=47 ;				
1361C-111	Fab, Test & Deliver Coil #11	1	29OCT07*	29OCT07		681	48,390.25	48=47 ;				
1361C-112	Fab, Test & Deliver Coil #12	1	12NOV07*	12NOV07		671	48,390.25	48=47 ;				
1361C-113	Fab, Test & Deliver Coil #13	1	22NOV07*	22NOV07		764	48,390.25	48=47 ;				
1361C-114	Fab, Test & Deliver Coil #14	1	03DEC07*	03DEC07		759	48,390.25	48=47 ;				
1361C-115	Fab, Test & Deliver Coil #15	1	13DEC07*	13DEC07		751	48,400.50	48=47 ;				
1361C-116	Fab, Test & Deliver Coil #16	1	02JAN08*	02JAN08		744	48,400.50	48=47 ;				
1361C-117	Fab, Test & Deliver Coil #17	1	07JAN08*	07JAN08		741	48,400.50	48=47 ;				
1361C-118	Fab, Test & Deliver Coil #18	1	17JAN08*	17JAN08		733	48,400.50	48=47 ;				
1351-195X	ALL TF COILS DELIVERED	0	21JAN08	18JAN08		732	0.00					
FY07 Rebaseline Exercise												
ECP53RBX03	FY07 Rebaseline exercise	22*	01MAY07A	31MAY07A			1,422.48	EA/EM =08hr ;				
99.07X	Retroactive MHX exclusion	22*	01MAY07A	31MAY07A			-38,281.20					

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost					
								FY07	FY08	FY09	FY10	FY11
Subtotal		0		18JAN08		732	965,391.05					
Job: 1302 - PF Design -KALISH												
FY07 Rebaseline Exercise												
ECP53RBX02	FY07 Rebaseline exercise	22*	01MAY07A	31MAY07A			4,623.06	EA/EM =40hr;				
1302-200	Complete PF Coil SRD	20	01AUG07*	28AUG07		239	4,267.44	EA/EM =24hr;				
1302-205	Update PF Analysis	40	29AUG07	24OCT07		291	29,022.00	EA/EM =160hr;				
1302-210	Update PF Coil SDD	40	25OCT07	21DEC07		291	4,458.24	EA/EM =24hr;				
1302-211	Complete PF4 PDR Model	20	29AUG07	26SEP07		239	14,224.80	EA/EM =00hr; EA/DM =80 ;				
1302-212	Complete PF5 PDR Model	20	27SEP07	24OCT07		239	14,797.20	EA/EM =00hr; EA/DM =80 ;				
1302-213	Complete PF6 PDR Model	20	25OCT07	21NOV07		239	14,860.80	EA/EM =00hr; EA/DM =80 ;				
1302-251	PDR Level Design Support Support	62	29AUG07	23NOV07		247	7,317.56	EA/EM =40hr;				
1302-220	Prepare for PDR	10	22NOV07	07DEC07		239	16,346.88	EA/EM =52hr; EA/DM =36 ;				
1302-225	PDR	2	10DEC07	11DEC07		239	2,972.16	EA/EM =16hr;				
1302-214	Prepare,Review & Approve conductor spec	5	12DEC07	18DEC07		279	2,972.16	EA/EM =16hr; EA/SB =00hr;				
1302-216	Prepare,Review & Approve coil spec	20	19DEC07	24JAN08		279	8,916.48	EA/EM =48hr; EA/SB =00hr;				
1302-240	Disposition PDR Chits	20	12DEC07	17JAN08		279	4,458.24	EA/EM =24hr;				
1302-235	Detail Drawings PF4	20	12DEC07	17JAN08		239	14,860.80	EA/DM =80 ;				
1302-245	Detail Drawings PF5	20	18JAN08	14FEB08		239	14,860.80	EA/DM =80 ;				
1302-260	Detail Drawings PF6	20	15FEB08	13MAR08		239	14,860.80	EA/DM =80 ;				
1302-250	Analysis Support	10	12DEC07	03JAN08		289	13,003.20	EA/EM =70hr;				
1302-217	Drawing Support	60	12DEC07	13MAR08		239	11,145.60	EA/EM =60hr; EA/SB =00hr;				
1302-218	PF Stress Analysis with leads	30	12DEC07	31JAN08		269	22,291.20	EA/EM =120hr; EA/SB =00hr;				
1302-265	Prepare for FDR	5	14MAR08	20MAR08		239	16,346.88	EA/EM =52hr; EA/DM =36 ;				
1302-270	PF FDR	2	21MAR08	24MAR08		239	2,972.16	EA/EM =16hr;				
1302-275	Resolve Chits	20	25MAR08	21APR08		309	14,860.80	EA/EM =80hr;				
Subtotal		0		21APR08		309	254,439.26					
Job: 1352 - PF Coil Procurement-KALISH												
PF Coil Fabrication												
141-035	Bid & Award PF Coil Fabrication	45	25MAR08	27MAY08		239	35,811.60	EA/EM =160hr; 35=05\$K;				
141-036	PF Coils Awarded	0		27MAY08		239	0.00	▼				
141-037	Bid & Award Conductor	25	16JUN08	21JUL08		246	8,916.48	EA/EM =48hr;				
141-038	PF Conductor Awarded	0		21JUL08*		246	0.00	▼				
141-038.1	PF Conductor Delivery	65	22JUL08	21OCT08		246	151,984.80	41=114.4\$K;				
141-039	Bid & Award Materials	25	27JUN08	01AUG08		257	8,916.48	EA/EM =48hr;				
141-040	PF Materials Awarded	0		01AUG08*		257	0.00	▼				
1352-100	Materials Delivery PF 4,5,6	45	04AUG08	06OCT08		257	178,529.66	41=136\$K;				
1352-121	Design/Fab Tooling for PF 5	80	28MAY08	18SEP08		239	280,747.50	48=273.9\$K;				

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year						
								FY07	FY08	FY09	FY10	FY11		
1352-122	Design/Fab Tooling for PF 6	80	28JUL08*	17NOV08		242	331,639.61			48=320.1\$K ;				
1352-120	Tooling for PF 4	55	25JUL08*	10OCT08		253	74,072.29			48=72\$K ;				
1352-150	Fabricate/Dlvr PF 4	60	22OCT08	26JAN09		246	42,250.20			48=40 ;				
1352-165	Fabricate/Dlvr PF 5 Lower	45	19SEP08	20NOV08		239	73,821.95			48=70.55 ;				
1352-145	Fabricate/Dlvr PF 6 Lower	45	21NOV08	04FEB09		239	86,654.95			48=82.45 ;				
1352-166	Fabricate/Dlvr PF 5 Upper	25	05FEB09	11MAR09		585	74,148.05			48=70.55 ;				
1352-146	Fabricate/Dlvr PF 6 Upper	25	12MAR09	15APR09		585	86,654.95			48=82.45 ;				
141-031	Title III engr WBS 132	333	25MAR08	22JUL09		799	111,907.70			EA//EM =592hr ;				
141-900	PF4 Lower/Upper Inspection & Test	10	27JAN09	09FEB09		246	7,122.60			EA//EM =20hr ; EM//TB =40hr ;				
141-901	PF5 Lower Inspection & Test	10	21NOV08	08DEC08		284	3,561.30			EA//EM =10hr ; EM//TB =20hr ;				
141-902	PF6 Lower Inspection & Test	10	05FEB09	18FEB09		239	3,561.30			EA//EM =10hr ; EM//TB =20hr ;				
141-905	PF5 Upper Inspection & Test	10	12MAR09	25MAR09		610	3,561.30			EA//EM =10hr ; EM//TB =20hr ;				
141-906	PF6 Upper Inspection & Test	10	16APR09	29APR09		585	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 ;				
Subtotal		522	25MAR08	28APR10		610	1,595,794.82							
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			ea//sb=100				
1353-002	Engr & analysis of bus	20	02JUN09	29JUN09		330	15,296.80			ea//em=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			41=33.76				
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			41=172\$K ; 35=02\$K ;				
163-015	Title III design CS sprt struc	175*	30JUN09	17MAR10		330	13,670.70			EA//EM =70hr ;				
Subtotal		225	20APR09	17MAR10		330	337,329.28							
Job: 1354 - Trim Coil Design & Procurement-KALISH														
Trim Coils														
1303-101	Complete Trim Coil SRD	10	01JUN09*	12JUN09		337	1,529.68			EA//EM =08hr ;				
1303-103	Analysis	15	15JUN09*	06JUL09		337	7,648.40			EA//EM =40hr ;				
1303-105	FDR Dwgs	20	07JUL09*	03AUG09		337	11,472.60			EA//DM =60 ;				
1303-107	Prepare for FDR	5	04AUG09*	10AUG09		337	3,059.36			EA//EM =16hr ;				
1303-110	Trim Coil FDR	1	11AUG09*	11AUG09		337	1,529.68			EA//EM =08hr ;				
1303-112	Prepare Procurement Coil Spec	5	12AUG09*	18AUG09		352	4,589.04			EA//EM =24hr ;				
1303-114	Disposition FDR Chits	5	12AUG09*	18AUG09		352	1,529.68			EA//EM =08hr ;				
1303-116	Detail Fabrication Drawings	20	12AUG09*	09SEP09		337	12,237.44			EA//EM =64hr ;				

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year				
								FY07	FY08	FY09	FY10	FY11
P1-171C	Final Clamps & Warm Test (Station1) A6	15	31JAN08	20FEB08	1	397	26,027.60					
P2-051C	Final Clamps & Warm Test (Station1) C6	15	21MAR08	10APR08	1	374	26,027.60					
P2-171C	Final Clamps & Warm Test (Station1) B6	15	24APR08	14MAY08	1	345	26,027.60					
LOE Oversight & Supervision												
145XSPRV-1	Winding Engineering oversight and supervision	292*	01MAY07	30JUN08		1,063	860,080.29					
Subtotal		313	01APR07A	30JUN08		1,063	2,869,017.21					
Job: 1459 - Mod Coil Fabr.Punch List-CHRZANOWSKI												
Punchlist Tech shop/RESA												
PLTS-B2	Grinding -B2	5	25JUN07*	29JUN07	1	281	3,757.81					
PLTS-A2	Grinding -A2	5	02JUL07	09JUL07	1	281	3,757.81					
PLTS-A1	Grinding -A1	5	10JUL07	16JUL07	1	283	3,757.81					
PLTS-B1	Grinding -B1	5	17JUL07	23JUL07	1	289	3,757.81					
PLTS-C2	Grinding & Drill Holes -C2	20	20AUG07	17SEP07	1	270	18,405.60					
PLTS-C1	Grinding & Drill Holes -C1	20	18SEP07	15OCT07	1	270	18,857.04					
PLTS-C5	Grinding & Drill Holes -C5	20	16OCT07	12NOV07	1	270	19,226.40					
PLTS-C3	Grinding & Drill Holes -C3	20	13NOV07	12DEC07	1	270	19,226.40					
PLTS-A3	Grinding -A3	5	13DEC07	19DEC07	1	283	3,925.39					
PLTS-B3	Grinding -B3	5	20DEC07	04JAN08	1	295	3,925.39					
PLTS-A4	Grinding -A4	5	07JAN08	11JAN08	1	304	3,925.39					
PLTS-B4	Grinding -B4	5	14JAN08	18JAN08	1	310	3,925.39					
PLTS-C4	Grinding & Drill Holes -C4	20	21JAN08	15FEB08	1	310	19,226.40					
PLTS-A5	Grinding -A5	5	18FEB08	22FEB08	1	370	3,925.39					
PLTS-B5	Grinding -B5	5	25FEB08	29FEB08	1	379	3,925.39					
PLTS-A6	Grinding -A6	5	03MAR08	07MAR08	1	390	3,925.39					
PLTS-B6	Grinding -B6	5	15MAY08	21MAY08	1	345	3,925.39					
PLTS-C6	Grinding & Drill Holes -C6	20	22MAY08	19JUN08	1	345	19,226.40					
Punchlist- Coil Technicians												
PLCT-B2	Insul,measure,TC,SG other punch list-B2	7	01OCT07	09OCT07	2	294	16,502.66					
PLCT-A2	Insul,measure,TC,SG other punch list-A2	7	10AUG07	20AUG07	2	258	15,798.14					
PLCT-A1	Insul,measure,TC,SG other punch list-A1	9	21AUG07	31AUG07	2	258	19,555.95					
PLCT-B1	Insul,measure,TC,SG other punch list-B1	7	04SEP07	12SEP07	2	276	15,798.14					
PLCT-C2	Insul,measure,TC,SG other punch list-C2	9	18SEP07	28SEP07	2	285	19,555.95					
PLCT-C1	Insul,measure,TC,SG other punch list-C1	18	16OCT07	08NOV07	1	274	20,748.49					
PLCT-C5	Insul,measure,TC,SG other punch list-C5	18	13NOV07	10DEC07	1	272	20,428.05					
PLCT-C3	Insul,measure,TC,SG other punch list-C3	18	13DEC07	16JAN08	1	270	20,748.49					
PLCT-A3	Insul,measure,TC,SG other punch list-A3	17	17JAN08	08FEB08	1	270	19,306.51					
PLCT-B3	Insul,measure,TC,SG other punch list-B3	14	11FEB08	28FEB08	1	270	16,502.66					

EM/TB =140hr ; EM2/TB =139 ;
EMT/TB =32 ;

EM//TB =140hr ; EM2/TB =139 ;
EMT/TB =32 ;

EM//TB =140hr ; EM2/TB =139 ;
EMT/TB =32 ;

Chrzanowski=120hrs/mo.;Meighan=120 hrs/mo.
Raftopolous=70hrs/mo.;Languish=70 hrs/mo.

EM//TB =49hr ;

EM//TB =49hr ;

EM//TB =49hr ;

EM//TB =49hr ;

EM//TB =240hr ;

EM//TB =240hr ;

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EM//TB =206hr ;

EM//TB =255hr ;

EM//TB =259hr ;

EM//TB =255hr ;

EM//TB =259hr ;

EM//TB =241hr ;

EM//TB =206hr ;

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year				
								FY07	FY08	FY09	FY10	FY11
Job: 1431 - Mod. Coil Interface Hardware-DUDEK												
Bladders												
1421-3022	Receive first 5 Bladders	10	02JUL07*	16JUL07		260	0.00					
1421-3023	Test Bladders	10	17JUL07	30JUL07		260	0.00					
1421-3024	Prep Req, Bid, & Award Bladders	10	31JUL07	13AUG07		260	0.00					
1421-3025	Deliver bladders	5	14AUG07	20AUG07		260	16,396.60					
1421-3028	Bladders available for FPA	0		20AUG07		260	0.00					
Bushings												
1421-3105	Prep Req, Bid, & Award Bushings	15	01MAY07	21MAY07		226	0.00					
1421-3106	Deliver Bushings Material	29	22MAY07	02JUL07		226	10,271.80					
1421-3107	PPPL Machine bushings Bushings	68	03JUL07	08OCT07		226	42,607.98					
1421-3108	Bushings available for first coil-to-coil fitup	0	09OCT07			226	0.00					
1421-3109	All Bushings delivered	0		08OCT07		283	0.00					
Shims-Outboard												
1429-3059	Requisition, Bid, Award Shim Stock (out & inboard)	15	01AUG07	21AUG07		233	0.00					
1429-3060	Deliver Shim Stock	10	22AUG07	05SEP07		233	77,274.56					
1429-3062	PPPL Cut, Grind, debur Outboard Shims	130	06SEP07	18MAR08		233	19,262.52					
1429-3065	Prep Req, Bid, Award Alumina Application	15	27JUL07	16AUG07		251	0.00					
1429-3066	Apply Alumina to Outboard Shims	130	13SEP07	25MAR08		233	42,152.99					
1429-3069	Outboard Shims Available for 1st 3 pack MC assy	0	20SEP07			233	0.00					
1429-3070	Outboard Shims Available for 2nd 3 pack MC assy	0	18OCT07			286	0.00					
1429-3071	Outboard Shims Available for 3rd 3 pack MC assy	0	03DEC07			305	0.00					
1429-3072	Outboard Shims Available for 4th 3 pack MC assy	0	23JAN08			322	0.00					
1429-3073	Outboard Shims Available for 5th 3 pack MC assy	0	20FEB08			378	0.00					
1429-3074	Outboard Shims Available for 6th 3 pack MC assy	0	26MAR08			400	0.00					
Shims-Inboard												
1429-3062X	PPPL cut, grind and debur Inboard Shims	130	12SEP07	24MAR08		269	19,286.01					
1429-3069X	Inboard Shims Available for 1st 3 pack MC assy	0	19SEP07			269	0.00					
1429-3070X	Inboard Shims Available for 2nd 3 pack MC assy	0	17OCT07			287	0.00					
1429-3071X	Inboard Shims Available for 3rd 3 pack MC assy	0	28NOV07			329	0.00					
1429-3072X	Inboard Shims Available for 4th 3 pack MC assy	0	22JAN08			329	0.00					
1429-3073X	Inboard Shims Available for 5th 3 pack MC assy	0	19FEB08			388	0.00					
1429-3074X	Inboard Shims Available for 6th 3 pack MC assy	0	25MAR08			407	0.00					
Shims- C-C Joint												
1429-3062C	PPPL Cut, Grind, debur Outboard Shims	10	01OCT09*	14OCT09		241	8,170.84					
1429-3066C	Apply Alumina to Outboard Shims	40	08OCT09	04DEC09		241	9,308.00					

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year				
								FY07	FY08	FY09	FY10	FY11
1429-3075X	Shims Req'd for C-C joint	0	07DEC09			241	0.00					
Studs,Washers,Nuts												
1421-3060	Deliver Stud Kit (PE007330) (for 1st 3 pack only	57*	01MAY07A	20JUL07		281	98,992.08					
1421-3061	Stud kit available for 1st 3 pack MC assy	0		20JUL07		281	0.00					
1421-3062	Re-order balance of stud kits	65	19JUL07	18OCT07		281	408,475.32					
1421-3063	Stud kits available for balance of MC assy	0		18OCT07		281	0.00					
1421-3065	Deliver Superbolts (PE007332)	22*	01MAY07A	31MAY07		316	157,905.00					
1421-3070	Order Add'l stud kits for c-c joint&weld clmp	15	01OCT07*	19OCT07		373	0.00					
1421-3072	Deliver Add'l stud kits for c-c joint&weld clmp	30	22OCT07	04DEC07		373	59,827.92					
1421-3080	Purchase G-11 shims and machine for C-C inboard	65	01OCT07*	10JAN08		726	5,728.80					
1421-3066	Super bolts available for FPA	0		31MAY07		316	0.00					
1421-4000	Misc Tech Shop support through FPA sta 3	250*	01OCT07*	30SEP08		999	76,905.60					
Subtotal		0		04DEC09		705	1,052,566.02					
15 - Coil Structures												
Job: 1501 - Coil Structures Design-DAHLGREN												
1501-521	Complete Preliminary Stress analysis	11*	01MAY07	15MAY07		411	12,446.70					
1501-522	Prelim CAD models & Dwgs	30	01MAY07	12JUN07		389	28,449.60					
1501-525	PDR Prep	3	13JUN07	15JUN07		389	3,556.20					
1501-525P	PDR	1	18JUN07*	18JUN07		389	1,422.48					
1501-533	Detail CAD Drawings,BOM	40	19JUN07	14AUG07		389	60,455.40					
1501-533F	Integrated Stress Analysis	40	19JUN07	14AUG07		389	42,674.40					
1501-537	FDR Prep	3	15AUG07	17AUG07		389	2,667.15					
1501-541	FDR	1	20AUG07	20AUG07		389	1,422.48					
1501-545	Resolve Chits	20	21AUG07	18SEP07		389	7,112.40					
1501-549	Update C.S.Support Design	10	21AUG07	04SEP07		394	10,668.60					
1501-550	Peer Review Updated C.S.Design	3	05SEP07	07SEP07		394	1,422.48					
1501-554	Resolve Chits from peer review	2	10SEP07	11SEP07		394	7,112.40					
1501-558	Prepare requisition for Coil Structure & CSS h/w	10	19SEP07	02OCT07		389	717.60					
1501-562	Prepare Specs for Coil Structure & CSS h/w	10	12SEP07	25SEP07		394	1,778.10					
ECP53RBX09	FY07 Rebaseline exercise	22*	01MAY07*	31MAY07		1,333	7,112.40					
Subtotal		108	01MAY07	02OCT07		1,247	189,018.39					
Job: 1550 - Coil Struct. Procurement -DAHLGREN												
1501-245	Prep Spec,Solicit Bids, and Evaluate Bids	30	04MAR08	14APR08		289	0.00					
162-036.9	Award Coil Support Structure	0		14APR08*		289	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		
162-037	Fabricate TF/MCWF mounting Components	130	15APR08	16OCT08		289	315,536.31			41=239.73				
162-038	Fabricate PF Mounting components	130	01MAY09*	03NOV09		448	271,403.95					48=257.06		
162-039	Fabricate Final TF Assy components Components	130	02FEB09*	04AUG09		458	83,722.66					48=79.657		
162-040	Fabricate Machine/base support interface	130	02FEB09*	04AUG09		458	93,370.84					48=88.84k ;		
162-050	Prep req, bid and award G11/Teflon parts	20	02JUN08*	27JUN08		276	0.00							
162-051	Deliver G11/Teflon parts	90	30JUN08	04NOV08		276	155,266.87					48=150.42\$K ;		
162-052	Prep req, bid and award Inconel hardware	20	02JUN08*	27JUN08		276	0.00							
162-053	Deliver Inconel hardware	90	30JUN08	04NOV08		276	107,547.23					48=104.19\$K ;		
162-055	Prep req, bid and award Belleville Washers	20	02JUN08*	27JUN08		276	0.00							
162-057	Deliver Belleville Washers	90	30JUN08	04NOV08		276	24,921.91					41=18.695\$K ;		
162-031	Title III engr WBS 151	311	15APR08	13JUL09		474	14,112.09						EA/EM =75hr ;	
Subtotal		421	04MAR08	03NOV09		448	1,065,881.86							

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&pipng	90	01MAY08*	08SEP08		274	84,115.20							ORNLEM =520hr ;
191-002	PDR WBS 161 LN2 manifolds&pipng	1	09SEP08*	09SEP08		274	1,294.08							ORNLEM =08hr ;
191-011	Title II design WBS 161 LN2 manifolds&pipng	90	10SEP08	26JAN09		274	89,163.53							ORNLEM =520hr ;
191-012	FDR WBS 161 LN2 manifolds&pipng	1	27JAN09	27JAN09		274	1,387.28							ORNLEM =08hr ;
191-037	Prep Req,Bid,Award-manifolds,hoses,valves etc	25	28JAN09*	03MAR09		461	0.00							
191-038	Delivery of-manifolds,hoses,valves etc	40	04MAR09*	28APR09		461	81,878.17							41=59\$K ;
191-041	Assemble manifolds and piping	110	03FEB10*	08JUL10		274	62,996.91							EM//TB =492hr ; EM/EM =123hr ;
191-031	Title III engr WBS 161	362	28JAN09	08JUL10		274	28,910.39							ORNLEM =176hr ;

162 - Electrical Leads

132-001	Title I design WBS 162 Coil leads	155	02JUN08*	19JAN09		278	152,991.50							ORNLEM =916hr ;
132-002	PDR WBS 162 Coil leads	1	20JAN09*	20JAN09		278	1,387.28							ORNLEM =08hr ;
132-011	Title II design WBS 162 Coil leads	155	21JAN09	27AUG09		379	158,843.56							ORNLEM =916hr ;
132-012	FDR WBS 162 Coil leads	1	28AUG09	28AUG09		379	1,387.28							ORNLEM =08hr ;
132-015	Title III design WBS 162 Coil leads	99	31AUG09*	29JAN10		451	19,579.88							ORNLEM =110hr ;
132-037	Prep Req,Bid,Award Lead hardware and cables	25	31AUG09	05OCT09		379	0.00							
132-038	Deliver Lead hardware and cables	65	06OCT09*	18JAN10		379	114,187.68							41=79.744\$K ;
132-047	Prep Req,Bid,Award Material for transition box	25	31AUG09*	05OCT09		445	0.00							
132-048	Deliver Material for Transition Boxes	40	06OCT09*	02DEC09		445	9,909.44							41=07\$K ;
132-049	Assemble Transition boxes (6)	40	03DEC09*	08FEB10		445	20,462.40							EM//TB =240hr ;

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost					
								FY07	FY08	FY09	FY10	FY11
18 - Field Period Assembly												
Job: 1803/1805- FPA Tooling/Constr-BROWN/DUDEK												
Station 2-Modular Coil Sub- Assembly												
1803-2.1	Assembly sequence plan drafted	28	01MAY07	08JUN07		280	0.00					
1803-2.2	Procure 2 20degree wedge fixt (for total of 6)	90	04SEP07*	18JAN08		300	0.00				41=92.8k**ON HOLD** NOT BUDGETED**	
Station 3-Modular Coil to VVSA Assembly												
1803-3.2	Finalize drawings for internal review and outsid	3	04JUN07	06JUN07		318	0.00					
1803-3.3	Analyze single point lift	10	07JUN07	20JUN07		318	9,957.36				ea//em=16; ea//em=40	
1803-3.4	Stage 3 support FDR	1	21JUN07*	21JUN07		318	0.00					
1803-3.5	Flange bolt/VV support access platform	8	14MAY07*	23MAY07		338	13,773.60				EA//SB =120hr ;	
1803-3.6	Revise drawings per FDR input and release for Fa	2	22JUN07	25JUN07		318	5,509.44				EA//SB =48hr ;	
1803-3.7	Transportation study (move between test cells)	2	26JUN07	27JUN07		380	4,591.20				EA//SB =40hr ;	
1803-3.8	Generate laser trace drawing for each screen	20	22JUN07	20JUL07		364	9,182.40				EA//SB =80hr ;	
1803-3.9	Assembly sequence plan and Installation procedur	18	01JUN07*	26JUN07		360	7,112.40				EA//EM =40hr ;	
R1802-305	Metrology plan	20	01JUN07*	28JUN07		379	0.00				Ellis	
1803-3.10	VV/MC clearance report (for VVSA1, 2 and 3)	21	27JUN07	26JUL07		360	12,802.32				EA//EM =72hr ;	
1803-3.11	Procure materials and fixture	88	26JUN07*	29OCT07		318	60,189.71				41=46.891\$K ;	
Station 5-Final Field Period Assembly												
1803-5.1	Complete FP support models	50	01AUG07*	10OCT07		316	27,744.19				ea//sb=240	
1803-5.5	Design followup & prelim analysis	20	01AUG07*	28AUG07		376	10,668.60				ea//em=60	
1803-5.2	Complete platform models	15	11OCT07	31OCT07		316	9,592.80				EA//SB =80hr ;	
1803-5.3	PDR	0		07NOV07		316	0.00				▼	
R1802-503	Sequence plan	20	02MAY07*	30MAY07		429	0.00				Brown	
1803-5.4	Structural Analysis	10	08NOV07*	21NOV07		316	11,145.60				EA//EM =60hr ;	
1803-5.6	FDR	0		21NOV07		316	0.00				▼	
1803-5.7	Complete dwg package and release for Fa	20	22NOV07	21DEC07		316	14,389.20				EA//SB =120hr ;	
1803-5.8	Complete models and dwgs for test cell metrology	9	02JAN08	14JAN08		352	19,185.60				EA//SB =160hr ;	
1803-5.9	Procure materials and fixture (2 stations)	65	02JAN08	01APR08		316	94,071.36				41=71.92\$K ;	
6.00-Final Machine Assembly												
1803-6.1	Complete Stage 6 support models	50	03DEC07*	19FEB08		328	28,778.40				EA//SB =240	
1803-6.2	Complete platform models	30	20FEB08	01APR08		328	9,592.80				EA//SB =80	
1803-6.3	Structural Analysis	30	03DEC07*	22JAN08		378	22,291.20				fan =120hr ;	
1803-6.4	PDR	0		01APR08		328	0.00				▼	
1803-6.5	Complete drawing package	40	02APR08	28MAY08		328	19,185.60				EA//SB =160	
1803-6.6	FDR	0		04JUN08		328	0.00				▼	
1803-6.7	Revise drawings per FDR input and release for Fa	5	05JUN08	11JUN08		328	0.00				I	
1803-6.9	Design followup and prelim analysis	82	03DEC07*	03APR08		371	22,291.20				Brown=120hr ;	

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year							
								FY07	FY08	FY09	FY10	FY11			
R1802-013	HP Coverage in the TFTR TC LOE FY07	106*	01MAY07*	28SEP07		1,249	60,432.68								
R1802-015	HP Coverage in the TFTR TC LOE FY08	250*	01OCT07*	30SEP08		999	149,857.40								
R1802-016	HP Coverage in the TFTR TC LOE FY09	181*	01OCT08*	24JUN09		818	111,675.15								
R1810-098	Station 3 complete	0		19JUN09		821	0.00								
Station 2 procedures,JHA,ACC,Training,Prep															
R1802-207	Procedures written & approved	14	12SEP07	01OCT07		215	0.00								
R1802-209	JHA completed	6	02OCT07	09OCT07		215	0.00								
R1802-211	Training needs identified & released	6	10OCT07	17OCT07		215	0.00								
R1802-213	ACC review completed	2	18OCT07	19OCT07		215	0.00								
R1802-215	Pre-job brief completed	1	22OCT07	22OCT07		215	0.00								
R1802-217	Station 2 operational	1	23OCT07	23OCT07		215	0.00								
Station 3 procedures,JHA,ACC,Training,Prep															
R1802-307	Procedures written & approved	10	23NOV07	10DEC07		276	0.00								
R1802-309	JHA completed	6	11DEC07	18DEC07		276	0.00								
R1802-311	Training needs identified & released	6	19DEC07	04JAN08		276	0.00								
R1802-313	ACC review completed	6	07JAN08	14JAN08		276	0.00								
R1802-315	Pre-job brief completed	6	15JAN08	22JAN08		276	0.00								
Station 5 procedures,JHA,ACC,Training,Prep															
R1802-507	Procedures written & approved	14	16APR08	05MAY08		286	0.00								
R1802-509	JHA completed	6	06MAY08	13MAY08		286	0.00								
R1802-519	Fixtures installed	6	14MAY08	21MAY08		286	0.00								
R1802-511	Training needs identified & released	6	22MAY08	30MAY08		286	0.00								
R1802-513	ACC review completed	7	02JUN08	10JUN08		286	0.00								
R1802-515	Pre-job brief completed	7	11JUN08	19JUN08		286	0.00								
1802MAY	May cost incr	20	01MAY07*	29MAY07		1,335	15,000.00								
Subtotal		650	01MAY07	04DEC09		705	1,997,721.50								
Job:1810-Field Period Assy -Station 1,2,3 VIOLA															
General Assy Support															
R1801-004S	LOE Crane support, fixt setup (2nd shft 1.2 fte)	175*	30MAR09*	04DEC09	2	705	120,527.82								
R1810-001	LOE Crane support, fixture setupfor FY07	106*	01MAY07*	28SEP07		1,249	66,183.47								
R1810-003	LOE Crane support, fixture setupfor FY08	250*	01OCT07*	30SEP08		999	165,923.83								
R1810-004	LOE Crane support, fixture setupfor FY09	294*	01OCT08*	04DEC09		705	201,777.31								
R1810-005	LOE Field Supervision for FY07	106*	01MAY07*	28SEP07		1,249	98,014.08								
R1810-007	LOE Field Supervision for FY08	250*	01OCT07*	30SEP08		999	245,765.14								
R1810-008	LOE Field Supervision for FY09	294*	01OCT08*	04DEC09		705	298,861.01								
R1810-008S	LOE Field Supervision for 2nd shft 1.0 fte	175*	30MAR09*	04DEC09	2	705	178,520.60								

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year				
								FY07	FY08	FY09	FY10	FY11
R1810-209	Perform metrology setup & checks	22	10SEP07*	09OCT07	1	225	7,777.82					
R1810-2021	Tools&tooling available for FPA operations	2	31AUG07	04SEP07	1	250	9,447.60					
R1810-2002	Test out Equip & Procedures	7	02OCT07	10OCT07	1	224	11,215.40					
R1810-2108	HARDWARE,DRAWINGS,& PROCURES AVAILABLE	0		23OCT07	1	215	0.00					
Pre-Measuring and fitup checks												
Pre measurement of MCHP A1,B1,C1 flanges												
S21-1.01	Verify mating MC's A1,B1,C1	4	20JUL07*	25JUL07	1	216	6,135.20					
S21-1.02	Epoxy paint all close fitting interfacing surfac	3	26JUL07	30JUL07	1	216	4,601.40					
S21-2.01	Set A1 on pre-measured fixt, "B" side down	1	31JUL07	31JUL07	1	216	1,533.80					
S21-2.02	Align to the conical seats locking into of 8	2	01AUG07	02AUG07	1	216	0.00					
S21-2.03	Estab global coord sys on mc geometry. Meas monu	7	03AUG07	13AUG07	1	216	0.00					
S21-2.04	Meas tooling ball monuments on winding form.	1	14AUG07	14AUG07	1	216	0.00					
S21-2.05	Scan the "A" flange of the Type-A1 coil.	1	15AUG07	15AUG07	1	216	0.00					
S21-2.07	Remove A1 coil from stand	1	16AUG07	16AUG07	1	216	1,533.80					
S21-2.08	Measure B1 "A" flange	14	17AUG07	06SEP07	1	216	3,067.60					
S21-2.11	Measure C1 "A" flange	13	07SEP07	25SEP07	1	216	3,067.60					
S21-2.14	Measure Type A1-A2 "A" flange	13	26SEP07	12OCT07	1	216	3,172.83					
S21-3.02	Grind shims first article f/assy process qu	4	15OCT07	18OCT07	1	216	6,408.80					
S21-4.02	Perform metrology set-up and checks	2	19OCT07	22OCT07	1	216	0.00					
S21-3.03	Ready For Preassembly A1B1C1	0		22OCT07	1	216	0.00					
Pre measurement of MCHP A2,B2,C2 flanges												
S22-1.01	Verify mating MC's of MCHP will come together	4	23OCT07	26OCT07		245	6,408.80					
S22-1.02	Epoxy paint all close fitting interfacing surfac	3	29OCT07	31OCT07		245	4,806.60					
S22-2.08	Set Type-B coil on fixt, "B" side flange down.	2	01NOV07	02NOV07		245	3,204.40					
S22-2.09	Steps 2.02 thru 2.04 scan the "A" side flange.	5	05NOV07	09NOV07		245	0.00					
S22-2.1	Remove Type-B coil from stand and store coil.	1	12NOV07	12NOV07		245	1,602.20					
S22-2.11	Set Type-C coil on fixt, "B" side flange down.	1	13NOV07	13NOV07		245	1,602.20					
S22-2.12	Steps 2.02 thru 2.04 scan the "A" side flange.	5	14NOV07	20NOV07		245	0.00					
S22-2.13	Remove Type-C coil from stand and store coil.	1	21NOV07	21NOV07		245	1,602.20					
S22-3.02	Compress alumina shims sort by thickness	3	22NOV07	26NOV07		245	4,806.60					
S22-4.02	Perform metrology set-up and checks	2	27NOV07	28NOV07		245	0.00					
S22-4.03	Ready For Preassembly A2B2C2	0		28NOV07		245	0.00					
Pre measurement of MCHP A3,B3,C3 flanges												
S23-1.01	Verify mating MC's of MCHP will come together	4	03DEC07	06DEC07		245	6,408.80					
S23-1.02	Epoxy paint all close fitting interfacing surfac	3	07DEC07	11DEC07		245	4,806.60					
S23-2.01	Set the A3 coil on fixture, A side flange down	1	12DEC07	12DEC07		245	1,602.20					
S23-2.02	Align to the conical seats locking into min of 8	2	13DEC07	14DEC07		245	0.00					
S23-2.03	Measure monuments on fixture and walls.	7	17DEC07	03JAN08		245	0.00					
S23-2.04	Measure tooling ball monuments	1	04JAN08	04JAN08		245	0.00					
S23-2.05	Scan the B flange of A3	1	07JAN08	07JAN08		245	0.00					
S23-2.07	Remove A3 move to holding area.	1	08JAN08	08JAN08		245	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
S21-11.01	Identify primary fiducials for positioning Sta 3	1	21MAR08	21MAR08	1	225	1,602.20					
S21-7.18	Final metrology meas. Scan "B" flangeType-C coil	5	24MAR08	28MAR08	1	225	0.00					
Tack Weld Inboard Welded hims												
S21-8.01	Tack weld inboard shims	2	31MAR08	01APR08	1	225	3,204.40					
Install Trim Coil												
S21-9.01	Install trim coil	6	02APR08	09APR08	1	225	9,613.20					
Complete Local Service & interface details												
S21-10.01	Install all wing support bladders	2	10APR08	11APR08	1	231	3,204.40					
S21-10.02	Make local service runs/connections	8	10APR08	21APR08	1	225	12,817.60					
S21-10.03	Inject stycast in all shim spaces	1	10APR08	10APR08	1	232	1,602.20					
Final Measurements/Transfer to Holding Area												
DOE-1	Notify DOE of scheduled station 3 lifts	0		12MAR08	1	225	0.00					
DOE-2	DOE review lift procedures	30	13MAR08	23APR08	1	225	0.00					
DOE-3	DOE approval of scheduled station 3 lifts	0		23APR08	1	225	0.00					
S21-11.03	Measure bolt length on all tension fasteners	0	24APR08	23APR08	1	225	0.00					
S21-11.04	Mark part for identification	0	24APR08	23APR08	1	225	0.00					
S21-11.05	Install lift support beams	2	22APR08	23APR08	1	225	3,204.40					
S21-11.06	Remove from stand & measure weight of assy	1	24APR08	24APR08	1	225	1,602.20					
S21-11.07	Move A1-B1-C1 to holding area.	0	25APR08	24APR08	1	225	0.00					
Station 2 MC Sub Assy A2-B2-C2												
A-B Assembly												
S22-6.01	A2 "A" flange dwn, 20deg fixt.Obtain fiduci	1	01FEB08	01FEB08	1	215	1,602.20					
S22-6.02	Align to the conical seats locking into a min of	1	04FEB08	04FEB08	1	215	0.00					
S22-6.03	Measure monuments on fixture and on the walls.	2	05FEB08	06FEB08	1	215	0.00					
S22-6.04	Place alumina grind inboard weld shims on coil.	2	07FEB08	08FEB08	1	215	3,204.40					
S22-6.05	Lower the Type-B coil onto the Type-A coil.	1	11FEB08	11FEB08	1	215	1,602.20					
S22-6.06	Meas monuments on A coil. Jack to within .002"	1	12FEB08	12FEB08	1	215	0.00					
S22-6.07	Perform the X-Y positioning of the B coil.	1	13FEB08	13FEB08	1	215	0.00					
S22-6.08	Install studs, supernuts, torque to 50% of final	2	14FEB08	15FEB08	1	215	3,204.40					
S22-6.09	"wiggle" test Tighten bolt and recheck.	1	18FEB08	18FEB08	1	215	1,602.20					
S22-6.1	Meas tooling balls on both coils. max devi .007"	5	19FEB08	25FEB08	1	215	0.00					
S22-6.11	adjust shims locally. Re-torque all studs to 50%	3	26FEB08	28FEB08	1	215	4,806.60					
S22-6.12	Install bushing.	2	29FEB08	03MAR08	1	215	2,403.30					
S22-6.13	Complete tightening of flange bolts to 100%.	1	04MAR08	04MAR08	1	215	1,602.20					
S22-6.14	Measure the tooling balls on both coils.	3	05MAR08	07MAR08	1	215	0.00					
S22-6.15	Scan the "B" flange of Type-B coil	1	10MAR08	10MAR08	1	215	1,602.20					
AB - C Assembly												
S22-7.01	"A/B" assy "A" coil dwn, 40deg fixt.Obtain fiduc	2	11MAR08	12MAR08	1	215	3,204.40					
S22-7.02	Align to the conical seats locking into min of 8	1	13MAR08	13MAR08	1	215	0.00					
S22-7.03	Measure monuments on fixture and walls.	2	14MAR08	17MAR08	1	215	0.00					
S22-7.04	Place alumin grind inboard weld shims on coil.	2	18MAR08	19MAR08	1	215	3,204.40					

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year				
								FY07	FY08	FY09	FY10	FY11
S22-7.05	Lower the Type-C coil onto the Type-B coil.	1	20MAR08	20MAR08	1	215	1,602.20					
S22-7.06	Meas monuments on A coil for displacements.	1	21MAR08	21MAR08	1	215	0.00					
S22-7.07	Perform the X-Y positioning of the coil.	1	24MAR08	24MAR08	1	215	1,602.20					
S22-7.08	Install studs, supernuts, torque to 50% of fina	2	25MAR08	26MAR08	1	215	3,204.40					
S22-7.09	"wiggle" test Tighten bolt and recheck.	1	27MAR08	27MAR08	1	215	1,602.20					
S22-7.1	Measure the tooling balls on all coils.	5	28MAR08	03APR08	1	215	0.00					
S22-7.11	Install bushing. Replace nut and tighten to 50%	1	04APR08	04APR08	1	215	2,403.30					
S22-7.12	Complete tightening of flange bolts to 100%.	1	07APR08	07APR08	1	215	1,602.20					
S22-7.13	Measure the tooling balls on both coils.	4	08APR08	11APR08	1	215	0.00					
Tack Weld Inboard Welded hims												
S22-8.01	Tack weld all inboard shims to one flange	1	14APR08	14APR08	1	215	1,602.20					
Install Trim Coil												
S22-9.01	Install trim coil	6	15APR08	22APR08	1	215	9,613.20					
Complete Local Service & interface details												
S22-10.01	Install all wing support bladders	2	23APR08	24APR08	1	215	3,204.40					
S22-10.02	local service connections on each MC.	8	25APR08	06MAY08	1	215	12,817.60					
S22-10.03	Inject stycast to fill in all shim spaces	1	07MAY08	07MAY08	1	215	1,602.20					
Final Measurements/Transfer to Holding Area												
S22-11.01	Install or identify three primary fiducials	1	08MAY08	08MAY08	1	215	1,602.20					
S22-11.02	Final metrology measurement of all fiducials.	5	09MAY08	15MAY08	1	215	0.00					
S22-11.03	Tension tester measure bolt length	1	16MAY08	16MAY08	1	215	801.10					
S22-11.04	Mark part for identification	0	19MAY08	16MAY08	1	215	0.00					
S22-11.05	Install lift support beams	2	19MAY08	20MAY08	1	215	3,204.40					
S22-11.06	Remove from stand Move A2-B2-C2 to holding area	2	21MAY08	22MAY08	1	215	3,204.40					
Station 2-Modular Coil Subassembly-FP#2												
S23-A3B3C3	Assemble/Align Mod-Coils A3/B3/C3	118	25APR08	10OCT08	1	231	140,872.66					
S24-A4B4C4	Assemble/Align Mod-Coils A4/B4/C4	79	30MAY08	19SEP08	1	237	77,706.70					
Station 2-Modular Coil Subassembly-FP#3												
S25-A5B5C5	Assemble/Align Mod-Coils A5/B5/C5	118	22SEP08*	17MAR09	1	237	144,472.64					
S26-A6B6C6	Assemble/Align Mod-Coils A6/B6/C6	79	28OCT08*	26FEB09	1	255	79,986.20					
Station 3 Setup/Preparations/General												
R1810-3102	Misc M&S	65	03APR08*	03JUL08	1	1,060	6,540.00					
R1810-3104	Procure 3 legged actuator system	20	01OCT07*	26OCT07	1	326	56,244.00					
R1810-3106	Load test 3 ledged actuator system	3	29OCT07	31OCT07	1	326	7,690.56					
R1810-3108	Procure ,Fabricate 3 legged actuator lift fixtur	20	01OCT07*	26OCT07	1	321	7,848.00					
R1810-3112	Load Test 3 legged actuator lift fixtur	8	29OCT07	07NOV07	1	321	10,254.08					
R1810-3150	Fab New legs	4	01OCT07*	04OCT07	1	335	5,127.04					
R1810-3103	Install station 3 platforms (8 required)	4	30OCT07	02NOV07	1	318	22,052.32					
R1810-3107	Test out station 3 equipment and procedures	4	05NOV07	08NOV07	1	318	13,080.00					

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year				
								FY07	FY08	FY09	FY10	FY11
R1810-3109	Begin assy of first field period assy	2	09NOV07	12NOV07	1	318	52,320.00					
Station 3-Assemble Mod Coils and VVSA-FP#1												
R1810-2109	Begin Station 3	0	23JAN08		1	276	0.00					
S31-1.01	Install Station 3 site monuments	3	23JAN08	25JAN08	1	276	7,422.60					
S31-1.02	Install floor mounted tracks and VV base support	5	28JAN08	01FEB08	1	276	9,319.00					
S31-1.03	Establish the MCHP CG location.	2	04FEB08	05FEB08	1	276	3,204.40					
S31-2.01	Install MCHP support cart assemblies	4	06FEB08	11FEB08	1	276	6,408.80					
S31-2.02	Verify cart motion.	2	12FEB08	13FEB08	1	276	3,204.40					
S31-2.03	Install adjustor bar support weldment	0	14FEB08	13FEB08	1	276	0.00					
S31-2.04	Position left MCHP on the cart assembly	1	25APR08	25APR08	1	225	1,602.20					
S31-2.05	Secure left MCHP on support cart base.	2	28APR08	29APR08	1	225	3,204.40					
S31-2.06	Measure monuments on left MCHP and walls	5	30APR08	06MAY08	1	225	0.00					
S31-2.07	Set positioning stop on the cart	1	07MAY08	07MAY08	1	225	1,602.20					
S31-3.01	Move right base support cart to its final position	1	08MAY08	08MAY08	1	225	801.10					
S31-3.02	Lift the right side MCHP and position	1	23MAY08	23MAY08	1	215	1,602.20					
S31-3.03	Temporary fasteners bring the parts together.	0	27MAY08	23MAY08	1	215	0.00					
S31-3.04	AirLoc Wedgemount leveler to take load.	0	27MAY08	23MAY08	1	215	0.00					
S31-3.05	Install temp scaffolding to install flange hw	1	27MAY08	27MAY08	1	215	1,602.20					
S31-3.06	Install bolts and shims	1	28MAY08	28MAY08	1	215	1,602.20					
S31-3.07	Tighten flange fasteners to 50%	1	29MAY08	29MAY08	1	215	1,602.20					
S31-3.08	Perform metrology measurements	5	30MAY08	05JUN08	1	215	0.00					
S31-3.09	Perform position adjust on right side MCHP	2	06JUN08	09JUN08	1	215	3,204.40					
S31-3.1	Verify position of the VV support hanger	3	10JUN08	12JUN08	1	215	0.00					
S31-3.11	Remove flange hardware and temp platforms	1	13JUN08	13JUN08	1	215	1,602.20					
S31-4.01	EMeasure monuments on the MCHP's & walls.	2	16JUN08	17JUN08	1	215	2,616.00					
S31-4.02	Place all of the laser screens	2	18JUN08	19JUN08	1	215	3,204.40					
S31-4.03	Determine laser alignment.	1	20JUN08	20JUN08	1	215	1,602.20					
S31-4.04	mount the milar on the screens.	1	23JUN08	23JUN08	1	215	0.00					
S31-4.05	Disengage MCHP's to move the left MCHP.	1	24JUN08	24JUN08	1	215	1,602.20					
S31-4.06	Remove both MCHP's.	2	25JUN08	26JUN08	1	215	3,204.40					
S31-5.01	Remove the adjustor bar support from left side.	0	27JUN08	26JUN08	1	215	0.00					
S31-5.02	Install VV NBI port support stand.	2	27JUN08	30JUN08	1	215	3,204.40					
S31-5.03	Install VVSA to base support	1	01JUL08	01JUL08	1	215	1,602.20					
S31-5.04	Secure the VVSA to base & NBI port sprt stand.	2	02JUL08	03JUL08	1	215	3,204.40					
S31-6.01	Install bumper protection components on the VV	1	07JUL08	07JUL08	1	215	801.10					
S31-6.02	Position AirLoc Wedgemount in lower position.	0	08JUL08	07JUL08	1	215	0.00					
S31-6.03	move the left MCHP over the VV.	2	08JUL08	09JUL08	1	215	3,204.40					
S31-6.04	Re-install the left adjustor bar.	0	10JUL08	09JUL08	1	215	0.00					
S31-6.05	Make adjustments to properly align MCHP.	2	10JUL08	11JUL08	1	215	3,204.40					



EM/TB =40

41=02\$K ; EM/TB =60hr ;

41=01\$K ; EM/TB =100hr ;

EM/TB =40hr ;

EM/TB =80hr ;

EM/TB =40hr ;

EM/TB =00hr ;

EM/TB =20hr ;

EM/TB =40hr ;

EM/TB =00hr ; ZMET =100 ;

EM/TB =20hr ;

EM/TB =10hr ;

EM/TB =20hr ;

EM/TB =00hr ;

EM/TB =00hr ;

EM/TB =20hr ;

EM/TB =20hr ;

EM/TB =00hr ; ZMET =100 ;

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EM/TB =00hr ; ZMET =60 ;

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EM/TB =40hr ;

EM/TB =10hr ;

EM/TB =00hr ;

EM/TB =40hr ;

EM/TB =00hr ;

EM/TB =40hr ;

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	
S32-3.02	Lift the right side MCHP and position	1	06NOV08	06NOV08	1	223	1,649.20						EM/TB =20hr ;
S32-3.03	Temporary fasteners bring the parts together.	0	07NOV08	06NOV08	1	223	0.00						EM/TB =00hr ;
S32-3.04	AirLoc Wedgemount leveler to take load.	0	07NOV08	06NOV08	1	223	0.00						EM/TB =00hr ;
S32-3.05	Install temp scaffolding to install flange hw	1	07NOV08	07NOV08	1	223	1,649.20						EM/TB =20hr ;
S32-3.06	Install bolts and shims	1	10NOV08	10NOV08	1	223	1,649.20						EM/TB =20hr ;
S32-3.07	Tighten flange fasteners to 50%	1	11NOV08	11NOV08	1	223	1,649.20						EM/TB =20hr ;
S32-3.08	Perform metrology measurements	5	12NOV08	18NOV08	1	223	0.00						EM/TB =00hr ; ZMET =100 ;
S32-3.09	Perform position adjust on right side MCHP	2	19NOV08	20NOV08	1	223	3,298.40						EM/TB =40hr ;
S32-3.1	Verify position of the VV support hanger	3	21NOV08	25NOV08	1	223	0.00						EM/TB =00hr ; ZMET =60 ;
S32-3.11	Remove flange hardware and temp platforms	1	26NOV08	26NOV08	1	223	1,649.20						EM/TB =20hr ;
S32-4.01	EMeasure monuments on the MCHP's & walls.	2	01DEC08	02DEC08	1	223	2,794.00						EM/TB =00hr ; ZMET =40 ;41=2k
S32-4.02	Place all of the laser screens	2	03DEC08	04DEC08	1	223	3,298.40						EM/TB =40hr ;
S32-4.03	Determine laser alignment.	1	05DEC08	05DEC08	1	223	1,649.20						EM/TB =20hr ;
S32-4.04	mount the milar on the screens.	1	08DEC08	08DEC08	1	223	0.00						EM/TB =00hr ;
S32-4.05	Disengage MCHP's to move the left MCHP.	1	09DEC08	09DEC08	1	223	1,649.20						EM/TB =20hr ;
S32-4.06	Remove both MCHP's.	2	10DEC08	11DEC08	1	223	3,298.40						EM/TB =40hr ;
S32-5.01	Remove the adjustor bar support from left side.	0	12DEC08	11DEC08	1	223	0.00						EM/TB =00hr ;
S32-5.02	Install VV NBI port support stand.	2	12DEC08	15DEC08	1	223	3,298.40						EM/TB =40hr ;
S32-5.03	Install VVSA to base support	1	16DEC08	16DEC08	1	223	1,649.20						EM/TB =20hr ;
S32-5.04	Secure the VVSA to base & NBI port sprt stand.	2	17DEC08	18DEC08	1	223	3,298.40						EM/TB =40hr ;
S32-6.01	Install bumper protection components on the VV	1	19DEC08	19DEC08	1	223	824.60						EM/TB =10hr ;
S32-6.02	Position AirLoc Wedgemount in lower position.	0	22DEC08	19DEC08	1	223	0.00						EM/TB =00hr ;
S32-6.03	move the left MCHP over the VV.	2	22DEC08	23DEC08	1	223	3,298.40						EM/TB =40hr ;
S32-6.04	Re-install the left adjustor bar.	0	02JAN09	23DEC08	1	223	0.00						EM/TB =00hr ;
S32-6.05	Make adjustments to properly align MCHP.	2	02JAN09	05JAN09	1	223	3,298.40						EM/TB =40hr ;
S32-6.06	Transfer load to the AirLoc Wedgemount leveler.	0	06JAN09	05JAN09	1	223	0.00						EM/TB =00hr ;
S32-6.07	move the MCHP to the left 1/2".	0	06JAN09	05JAN09	1	223	0.00						EM/TB =00hr ;
S32-7.01	Position AirLoc Wedgemount lowered position.	0	06JAN09	05JAN09	1	223	0.00						EM/TB =00hr ;
S32-7.02	move the right MCHP over the VV	2	06JAN09	07JAN09	1	223	3,298.40						EM/TB =40hr ;
S32-7.03	move the left MCHP to its final position.	1	08JAN09	08JAN09	1	223	824.60						EM/TB =10hr ;
S32-7.04	engage the preinstalled Type-A flange bushings.	1	09JAN09	09JAN09	1	223	824.60						EM/TB =10hr ;
S32-7.05	Temporary fasteners bring the parts together.	0	12JAN09	09JAN09	1	223	0.00						EM/TB =00hr ;
S32-7.06	AirLoc Wedgemount leveler up to take the load.	1	12JAN09	12JAN09	1	223	824.60						EM/TB =10hr ;
S32-7.07	Remove laser screens	0	13JAN09	12JAN09	1	223	0.00						EM/TB =00hr ;
S32-7.08	Install temp scaffolding to install flange hw	4	13JAN09	16JAN09	1	223	6,596.80						EM/TB =80hr ;
S32-7.09	Install bolts, alumina and inboard weld shims.	2	19JAN09	20JAN09	1	223	3,298.40						EM/TB =40hr ;
S32-7.1	Tighten flange fasteners to 50%	1	21JAN09	21JAN09	1	223	1,649.20						EM/TB =20hr ;
S32-7.11	"wiggle" test Tighten bolt and recheck.	1	22JAN09	22JAN09	1	223	1,649.20						EM/TB =20hr ;
S32-7.12	Perform metrology measurements	5	23JAN09	29JAN09	1	223	0.00						EM/TB =00hr ; ZMET =100 ;
S32-7.13	Perform position adjustments right side MCHP	3	30JAN09	03FEB09	1	223	4,947.60						EM/TB =60hr ;

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	
S33-4.06	Remove both MCHP's.	1	01MAY09	01MAY09	2	223	3,298.40						EM//TB =40hr ;
S33-5.01	Remove the adjustor bar support from left side.	0	04MAY09	01MAY09	2	223	0.00						EM//TB =00hr ;
S33-5.02	Install VV NBI port support stand.	1	04MAY09	04MAY09	2	223	3,298.40						EM//TB =40hr ;
S33-5.03	Install VVSA to base support	1	05MAY09	05MAY09	2	223	1,649.20						EM//TB =20hr ;
S33-5.04	Secure the VVSA to base & NBI port sprt stand.	1	06MAY09	06MAY09	2	223	3,298.40						EM//TB =40hr ;
S33-6.01	Install bumper protection components on the VV	0	07MAY09	06MAY09	2	223	0.00						EM//TB =00hr ;
S33-6.02	Position AirLoc Wedgemount in lower position.	0	07MAY09	06MAY09	2	223	0.00						EM//TB =00hr ;
S33-6.03	move the left MCHP over the VV.	1	07MAY09	07MAY09	2	223	4,123.00						EM//TB =50hr ;
S33-6.04	Re-install the left adjustor bar.	0	08MAY09	07MAY09	2	223	0.00						EM//TB =00hr ;
S33-6.05	Make adjustments to properly align MCHP.	1	08MAY09	08MAY09	2	223	3,298.40						EM//TB =40hr ;
S33-6.06	Transfer load to the AirLoc Wedgemount leveler.	0	11MAY09	08MAY09	2	223	0.00						EM//TB =00hr ;
S33-6.07	move the MCHP to the left 1/2".	0	11MAY09	08MAY09	2	223	0.00						EM//TB =00hr ;
S33-7.01	Position AirLoc Wedgemount lowered position.	0	11MAY09	08MAY09	2	223	0.00						EM//TB =00hr ;
S33-7.02	move the right MCHP over the VV	1	11MAY09	11MAY09	2	223	3,298.40						EM//TB =40hr ;
S33-7.03	move the left MCHP to its final position.	1	12MAY09	12MAY09	2	223	824.60						EM//TB =10hr ;
S33-7.04	engage the preinstalled Type-A flange bushings.	1	13MAY09	13MAY09	2	223	824.60						EM//TB =10hr ;
S33-7.05	Temporary fasteners bring the parts together.	0	14MAY09	13MAY09	2	223	0.00						EM//TB =00hr ;
S33-7.06	AirLoc Wedgemount leveler up to take the load.	1	14MAY09	14MAY09	2	223	824.60						EM//TB =100hr ;
S33-7.07	Remove laser screens	0	15MAY09	14MAY09	2	223	0.00						EM//TB =00hr ;
S33-7.08	Install temp scaffolding to install flange hw	1	15MAY09	15MAY09	2	223	6,596.80						EM//TB =80hr ;
S33-7.09	Install bolts, alumina and inboard weld shims.	1	18MAY09	18MAY09	2	223	3,298.40						EM//TB =40hr ;
S33-7.1	Tighten flange fasteners to 50%	1	19MAY09	19MAY09	2	223	1,649.20						EM//TB =20hr ;
S33-7.11	"wiggle" test Tighten bolt and recheck.	1	20MAY09	20MAY09	2	223	1,649.20						EM//TB =20hr ;
S33-7.12	Perform metrology measurements	1	21MAY09	21MAY09	2	223	0.00						EM//TB =00hr ; ZMET =100 ;
S33-7.13	Perform position adjustments right side MCHP	1	22MAY09	22MAY09	2	223	4,947.60						EM//TB =60hr ;
S33-7.14	Remove SISSCO actuator from right MCHP.	0	26MAY09	22MAY09	2	223	0.00						EM//TB =00hr ;
S33-7.15	Install bushing.	1	26MAY09	26MAY09	2	223	824.60						EM//TB =10hr ;
S33-7.16	Tighten nuts 100%. & Measure	1	27MAY09	27MAY09	2	223	1,649.20						EM//TB =20hr ;
S33-8.01	partially weld the inboard shim.	7	28MAY09	05JUN09	2	223	24,738.00						EM//TB =300hr ;
S33-8.02	Final complete MC scan verify period alignment.	3	08JUN09	10JUN09	2	223	0.00						EM//TB =00hr ; ZMET =100 ;
S33-9.01	Attach VV permanent vertical supports	1	11JUN09	11JUN09	2	223	3,298.40						EM//TB =40hr ;
S33-9.02	Attach temporary VV vertical supports	1	12JUN09	12JUN09	2	223	1,649.20						EM//TB =20hr ;
S33-9.03	Transfer load to vertical supports.	1	15JUN09	15JUN09	2	223	1,649.20						EM//TB =20hr ;
S33-9.04	Install VV lateral supports and align	1	16JUN09	16JUN09	2	223	6,596.80						EM//TB =80hr ;
S33-9.05	Prepare VVSA for transport.	1	17JUN09	17JUN09	2	223	3,298.40						EM//TB =40hr ;
S33-10.01	transfer the unit to the transfer support frame	1	18JUN09	18JUN09	2	223	6,596.80						EM//TB =80hr ;
S33-10.02	Transfer Period 3 to Station 5 in NCSX TC	1	19JUN09	19JUN09	2	223	3,298.40						EM//TB =40hr ;
Subtotal		650	01MAY07	04DEC09		705	5,482,534.26						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	
S52-6.06	Install TF support brackets	1	27JUL09	27JUL09	2	226	3,298.40						EM/TB =40hr ;
S52-6.07	Secure 2nd TF coil	1	28JUL09	28JUL09	2	226	1,649.20						EM/TB =20hr ;
S52-6.08	Install machine support plates	2	29JUL09	30JUL09	2	226	4,947.60						EM/TB =60hr ;
S52-6.09	Reinstall leveler pad	0	31JUL09	30JUL09	2	226	0.00						EM/TB =00hr ;
S52-6.1	Installed one side of the TF support brackets	1	31JUL09	31JUL09	2	226	1,649.20						EM/TB =20hr ;
S52-7.01	The TF installation on the left side	6	03AUG09	10AUG09	2	226	21,439.60						EM/TB =260hr ;
S52-8.01	Perform a fit-up check of the four TF coils	3	11AUG09	13AUG09	2	226	8,246.00						EM/TB =100hr ;
S52-9.01	Tack weld the left and right port 4's.	1	14AUG09	14AUG09	2	226	3,298.40						EM/TB =40hr ;
S52-9.02	Install boots on both port 4's.	2	17AUG09	18AUG09	2	226	6,596.80						EM/TB =80hr ;
S52-10.01	Install PF coil support structure	4	19AUG09	24AUG09	2	226	13,193.60						EM/TB =160hr ;
S52-11.01	Install tMC coolant manifold	2	25AUG09	26AUG09	2	226	4,947.60						EM/TB =60hr ;
S52-11.02	Connect MC coolant lines to the manifold	10	27AUG09	10SEP09	2	226	32,984.00						EM/TB =400hr ;
S52-12.01	Install Rogowski coils	3	11SEP09	15SEP09	2	226	8,246.00						EM/TB =100hr ;
S52-13.01	Obtain set of Period 1 align fiducial positions	2	16SEP09	17SEP09	2	226	0.00						EM/TB =00hr ; ZMET =100 ;
S52-13.02	align to tooling balls on each MCHP	1	18SEP09	18SEP09	2	226	0.00						EM/TB =00hr ; ZMET =20 ;
S52-13.03	bring the VV into proper alignment	2	21SEP09	22SEP09	2	226	6,596.80						EM/TB =80hr ;
S52-13.04	Install or identify three primary fiducials	1	23SEP09	23SEP09	2	226	3,298.40						EM/TB =40hr ;
S52-13.05	Make a final measurement of all fiducials	2	24SEP09	25SEP09	2	226	0.00						EM/TB =00hr ; ZMET =100 ;
S52-13.11	Check Assembly (bolts, etc)	3	28SEP09	30SEP09	2	226	8,246.00						EM/TB =100hr ;
S52-13.12	Check Diagnostics (Loops, thermocouples)	2	01OCT09	02OCT09	2	226	8,526.00						EM/TB =100hr ;
S52-13.13	Check manifolds (pressure, flow, etc.)	3	05OCT09	07OCT09	2	226	8,526.00						EM/TB =100hr ;
S52-13.14	Check 6 modcoils (voltage etc)	3	08OCT09	12OCT09	2	226	10,231.20						EM/TB =120hr ;
S52-13.15	Check trim coils (voltage etc)	2	13OCT09	14OCT09	2	226	5,115.60						EM/TB =60hr ;
S52-13.16	Check TF coils (voltage etc)	2	15OCT09	16OCT09	2	226	10,231.20						EM/TB =120hr ;
S52-14.01	Install crane rigging to completed Period assy	1	19OCT09	19OCT09	2	226	3,410.40						EM/TB =40hr ;
S52-14.02	Remove platforms	1	20OCT09	20OCT09	2	226	1,705.20						EM/TB =20hr ;
S52-14.03	Transfer Period 2 to Station 6 in NCSX tTC.	1	21OCT09	21OCT09	2	226	3,410.40						EM/TB =40hr ;
Station 5- Final FP Assy -FP#3 (in NCSX TC)													
S53-1.01	cut off short dome	1	26JUN09	26JUN09	2	219	3,298.40						EM/TB =40hr ;
S53-1.02	Install insulation system around all ports.	0	29JUN09	26JUN09	2	219	0.00						EM/TB =00hr ;
S53-1.03	Install heat tape and theomocouples on all ports	0	29JUN09	26JUN09	2	219	0.00						EM/TB =00hr ;
S53-2.01	Install period support fixture	1	29JUN09	29JUN09	2	219	3,298.40						EM/TB =40hr ;
S53-2.02	Install FPA on support stand.	1	30JUN09	30JUN09	2	219	3,298.40						EM/TB =40hr ;
S53-2.03	Install external working platforms	2	01JUL09	02JUL09	2	219	6,596.80						EM/TB =80hr ;
S53-2.04	Install internal VV working platforms	2	06JUL09	07JUL09	2	219	4,947.60						EM/TB =60hr ;
S53-3.01	Install the domes (left and right side),	1	08JUL09	08JUL09	2	219	3,298.40						EM/TB =40hr ;
S53-3.02	Install small dome ports remaining circ ports.	15	09JUL09	29JUL09	2	219	49,476.00						EM/TB =600hr ;
S53-3.03	Leak check each port after it is welded.	15	20JUL09	07AUG09	2	219	49,476.00						EM/TB =600hr ;
S53-4.01	Install boots on ports except for the two port	8	04AUG09	13AUG09	2	219	26,387.20						EM/TB =320hr ;

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year					
								FY07	FY08	FY09	FY10	FY11	
S53-5.01	Install MC lead connections on each of the MC's	1	14AUG09	14AUG09	2	219	0.00						EM//TB =00hr ;
S53-5.02	Install MC coolant lines on each MC	6	17AUG09	24AUG09	2	219	19,790.40						EM//TB =240hr ;
S53-5.03	Platforms may need to be altered	2	25AUG09	26AUG09	2	219	4,947.60						EM//TB =60hr ;
S53-6.01	Rotate 2 TF coils over the MC on the right side	1	27AUG09	27AUG09	2	219	3,298.40						EM//TB =40hr ;
S53-6.02	Attach the temp support at end of Type-C MC	1	28AUG09	28AUG09	2	219	1,649.20						EM//TB =20hr ;
S53-6.03	Lower leveler pad disengage base of MC right sid	0	31AUG09	28AUG09	2	219	0.00						EM//TB =00hr ;
S53-6.04	Install TF support brackets	1	31AUG09	31AUG09	2	219	3,298.40						EM//TB =40hr ;
S53-6.05	Secure First TF assy	1	01SEP09	01SEP09	2	219	1,649.20						EM//TB =20hr ;
S53-6.06	Install TF support brackets	1	02SEP09	02SEP09	2	219	3,298.40						EM//TB =40hr ;
S53-6.07	Secure 2nd TF coil	1	03SEP09	03SEP09	2	219	1,649.20						EM//TB =20hr ;
S53-6.08	Install machine support plates	1	04SEP09	04SEP09	2	219	4,947.60						EM//TB =60hr ;
S53-6.09	Reinstall leveler pad	0	08SEP09	04SEP09	2	219	0.00						EM//TB =00hr ;
S53-6.1	Installed one side of the TF support brackets	1	08SEP09	08SEP09	2	219	1,649.20						EM//TB =20hr ;
S53-7.01	The TF installation on the left side	6	09SEP09	16SEP09	2	219	21,439.60						EM//TB =260hr ;
S53-8.01	Perform a fit-up check of the four TF coils	3	17SEP09	21SEP09	2	219	8,246.00						EM//TB =100hr ;
S53-9.01	Tack weld the left and right port 4's.	1	22SEP09	22SEP09	2	219	3,298.40						EM//TB =40hr ;
S53-9.02	Install boots on both port 4's.	2	23SEP09	24SEP09	2	219	6,596.80						EM//TB =80hr ;
S53-10.01	Install PF coil support structure	4	25SEP09	30SEP09	2	219	13,193.60						EM//TB =160hr ;
S53-11.01	Install tMC coolant manifold	2	01OCT09	02OCT09	2	219	5,115.60						EM//TB =60hr ;
S53-11.02	Connect MC coolant lines to the manifold	10	05OCT09	16OCT09	2	219	34,104.00						EM//TB =400hr ;
S53-12.01	Install Rogowski coils	3	19OCT09	21OCT09	2	219	8,526.00						EM//TB =100hr ;
S53-13.01	Obtain set of Period 1 align fiducial positions	2	22OCT09	23OCT09	2	219	0.00						EM//TB =00hr ; ZMET =100 ;
S53-13.02	align to tooling balls on each MCHP	1	26OCT09	26OCT09	2	219	0.00						EM//TB =00hr ; ZMET =20 ;
S53-13.03	bring the VV into proper alignment	2	27OCT09	28OCT09	2	219	6,820.80						EM//TB =80hr ;
S53-13.04	Install or identify three primary fiducials	1	29OCT09	29OCT09	2	219	3,410.40						EM//TB =40hr ;
S53-13.05	Make a final measurement of all fiducials	3	30OCT09	03NOV09	2	219	0.00						EM//TB =00hr ; ZMET =100 ;
S53-13.11	Check Assembly (bolts, etc)	2	04NOV09	05NOV09	2	219	8,526.00						EM//TB =100hr ;
S53-13.12	Check Diagnostics (Loops, thermocouples)	3	06NOV09	10NOV09	2	219	8,526.00						EM//TB =100hr ;
S53-13.13	Check manifolds (pressure, flow, etc.)	2	11NOV09	12NOV09	2	219	8,526.00						EM//TB =100hr ;
S53-13.14	Check 6 modcoils (voltage etc)	3	13NOV09	17NOV09	2	219	10,231.20						EM//TB =120hr ;
S53-13.15	Check trim coils (voltage etc)	2	18NOV09	19NOV09	2	219	5,115.60						EM//TB =60hr ;
S53-13.16	Check TF coils (voltage etc)	3	20NOV09	24NOV09	2	219	10,231.20						EM//TB =120hr ;
S53-14.01	Install crane rigging to completed Period assy	1	25NOV09	25NOV09	2	219	3,410.40						EM//TB =40hr ;
S53-14.02	Remove platforms	1	30NOV09	30NOV09	2	219	1,705.20						EM//TB =20hr ;
S53-14.03	Transfer Period 3 to Station 6 in NCSX tTC.	1	01DEC09	01DEC09	2	219	3,410.40						EM//TB =40hr ;
R1810-5333	Last field period assembled	0		01DEC09	2	219	0.00						
Subtotal		355	01JUL08	01DEC09		219	1,317,195.56						

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost					
								FY07	FY08	FY09	FY10	FY11
19 - Stellarator Core Management and Integration												
Job: 1901 - Stellarator Core Mngt&Integr-COLE												
191 - Stellarator Core Management & Oversight												
1901-07	WBS 191 FY07	LOE	106*	01MAY07*	28SEP07	1	1,249	79,093.36	3cole=.40 fte nelson=.15 fte ; 35=05\$K ;			
1901-08	WBS 191 FY08	LOE	249*	01OCT07*	29SEP08	1	1,000	216,460.70	cole=.40 fte nelson=.15 fte ; 35=06\$K ; ornl41=20.38k			
1901-09	WBS 191 FY09	LOE	247*	01OCT08*	28SEP09	1	752	231,238.58	cole=.40 fte nelson=.15 fte ; 35=06\$K ; ornl41=20.38k			
1901-10	WBS 191 FY10	SA LOE	248*	01OCT09*	30SEP10	1	502	238,712.22	cole=.40 fte nelson=.15 fte ; 35=06\$K ; ornl41=20.38k			
1901-11	WBS 191 FY10	LOE	96*	01OCT10*	23FEB11	1	406	113,478.23	cole=.40 fte nelson=.15 fte ; 35=06\$K ; ornl41=20.38k			
192 - Stellarator Core Integration & Analysis												
1902-07	WBS 192 FY07		106*	01MAY07*	28SEP07	1	1,249	85,976.86	ornlem=.55; ornldsnr=.3 ornl35=3k			
1902-08	WBS 192 FY08		249*	01OCT07*	29SEP08	1	1,000	208,453.20	ornlem=.55; ornldsnr=.3 ornl35=3k			
1902-09	WBS 192 FY09		247*	01OCT08*	28SEP09	1	752	221,709.30	ornlem=.55; ornldsnr=.3 ornl35=3k			
1902-10	WBS 192 FY10		248*	01OCT09*	30SEP10	1	502	229,278.30	ornlem=.55; ornldsnr=.3 ornl35=3k			
1902-11	WBS 192 FY10		122*	01OCT10*	31MAR11	1	380	118,254.46	ornlem=.55; ornldsnr=.3 ornl35=3k			
Subtotal			975	01MAY07	31MAR11	1	380	1,742,655.21				
2 - Plasma Heating, Fueling & Vac Systems												
21 - Fueling Systems												
Job: 2101 - Fueling Systems-BLANCHARD												
211-101	Preliminary Design		20	01SEP09*	29SEP09			281	16,457.10	EM//EM =45hr ; EA//SB =16hr ; EE//SM =48hr ;		
211-105	PDR		1	30SEP09	30SEP09			281	0.00			
211-109	Final Design		20	01OCT09	28OCT09			281	17,017.17	EM//EM =45hr ; EA//SB =16hr ; EE//SM =48hr ;		
211-113	FDR		1	29OCT09	29OCT09			281	0.00			
211-117	Title III		85	30OCT09	11MAR10			644	5,133.90	EM//EM =30hr ;		
211-121	Procure Material and Supplies		65	30OCT09	11FEB10			281	7,160.00	41=05\$K ;		
211-125	Fabricate/Install/Test		40	12FEB10	08APR10			281	23,684.56	EM//SB =96 ; EM//TB =64hr ; em/em=40		
Subtotal			147	01SEP09	08APR10			624	69,452.73			
22 - Torus Vacuum Pumping Systems												
Job: 2201 - Vacuum Pumping Systems-BLANCHARD												
220-101	Preliminary Design		30	02JAN09*	12FEB09			271	40,404.42	EE//EM =20hr ; EA//SB =164hr ; EM//EM =79hr ; EE//SM =24hr ;		
220-105	PDR		1	13FEB09	13FEB09			271	0.00			
220-109	Final Design		35	16FEB09	03APR09			271	40,404.42	EE//EM =20hr ; EA//SB =164hr ; EM//EM =79hr ; EE//SM =24hr ;		
220-113	FDR		1	06APR09	06APR09			271	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
220-114	Title III	200	07APR09	28JAN10		674	8,381.97					
220-117	Procure/Install AC pwr for backup sys	95	07APR09	19AUG09		271	4,191.00					
220-121	Procure/Install TVPS/GIS Rack	95	07APR09	19AUG09		271	4,191.00					
220-125	Procure/Install Cabling	95	07APR09	19AUG09		271	2,095.50					
220-129	Procure/Install TVPS materials	95	07APR09	19AUG09		271	13,970.00					
220-133	Assemble Fabricate (mechanical)	115	20AUG09	11FEB10		271	55,082.33					
220-137	Installation/Test (mechanical)	50	12FEB10	22APR10		271	5,456.64					
Subtotal		327	02JAN09	22APR10		614	174,177.28					

EM//EM =50hr ;
 41=03\$k ;
 41=03\$k ;
 41=02\$k ;
 41=10\$k ;
 EE//TB =360hr ; EM//TB =168hr ;
 EM//SB =96 ;
 EM//TB =64hr ;

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	01MAY07*	12JUN07		437	9,235.20
3101-317	PRELIM DESIGN ROWGOWSKI COIL incl prototype	30	13JUN07*	25JUL07		437	17,010.28
3101-318	PDR - ROWGOWSKI COIL	0		25JUL07*		437	0.00
3101-325	FINAL DESIGN ROWGOSKI COIL	30	26JUL07*	06SEP07		437	21,876.56
3101-340	subcontract winding 3 mandrels	30	26JUL07*	06SEP07		437	19,140.00
3101-326	FDR - ROWGOSKI COIL	0		06SEP07		437	0.00
3101-329	FAB ROWGOWSKI COILS incl clamps	45	07SEP07	08NOV07		437	21,998.43
3101-330	Title III	45	07SEP07	08NOV07		437	9,500.84

EM//EM =60hr ;
 em//em=80;em//sm=242;em//tb=20;41=0.1k
 EM//EM =126hr ;em//sm=16;ea//sb=4
 41=15k
 41=4.5\$k ; EM//EM =15hr ;
 EM//SM =32hr ; EM//TB =122hr ;
 EM//EM =60

TF and PF Co-wound Loops

3101-425	Design Protective boxes for PF	20	01OCT07*	26OCT07		439	24,881.50
3101-426	Purchase SS Sheet	15	29OCT07*	16NOV07		439	1,218.07
3101-452	Form Protective boxes	20	19NOV07	18DEC07		439	13,475.22
3101-454	Weld end plates of PF protective boxes	10	19DEC07	10JAN08		439	1,441.98
3101-427	Purchase Heat Shrink tubing	15	04SEP07*	24SEP07		515	3,012.14
3101-428	Purchase aad'l CoAxial cable	40	04SEP07*	29OCT07		483	5,974.57
3101-450	Prototype PF Loops	10	30OCT07*	12NOV07		490	1,585.32
3101-458	FabTF,PF & solenoid co-wound loops	40	13NOV07	18JAN08		490	17,174.30
3101-456	Title III	70	29OCT07	14FEB08		471	5,788.44

EA//SB =60hr ; EM//EM =110hr ;
 EM//TB =1; 41=0.87k
 em//sm=102
 em//tb=18
 EM//TB =6; 41=2.0k
 EM//TB =2hr ; 41=4.5\$k ;
 em//sm=12
 em//sm=130
 em//em=36

T/C and Heater Tape Leads

1204-140	Design T/C and Heater Tape Leads	20	01AUG07*	28AUG07		308	20,933.12
1204-140.2	Design Drafting T/C and Heater Tape Leads	20	01AUG07*	28AUG07		318	3,443.40
1204-140.1	Peer Review T/C and Heater Tape Leads	5	08AUG07	14AUG07		318	4,617.60
1204-141	Drawings Signed T/C and Heater Tape Leads	0		28AUG07		308	0.00

EM//EM =136
 ea//sb=30
 EM//EM =30

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year				
								FY07	FY08	FY09	FY10	FY11
1204-146	Procurement support T/C and Heater Tape Leads	20	29AUG07	26SEP07		308	6,156.80					
1204-147	Field/Fab support (title III) T/C&Heater Tape	65	27SEP07	08JAN08		308	4,014.47					
1204-148	Machine 12 2.75 cf blanks	20	29AUG07	26SEP07		373	4,552.92					
1204-150	Rubber seal	20	29AUG07	26SEP07		373	0.00					
1204-151	Machine 6 commercial aluminum boxes	20	29AUG07	26SEP07		373	4,552.92					
Flux loop junction boxes and spacer templates												
1204-160	Design Protective Boxes	10	01MAY07	14MAY07		379	3,386.24					
1204-165	Issue req,Bid & Award- Flux Loop Junction Boxes	25	15MAY07	19JUN07		379	0.00					
1204-170	Autocad dwgs of field runs/tag#/ports assignmt	10	01AUG07*	14AUG07		385	17,239.04					
1204-161	Fab Protective Boxes	10	09AUG07	22AUG07		379	5,727.88					
1204-171	Prep Dwgs of spacer loops	10	01AUG07*	14AUG07		822	6,886.80					
1204-172	Title III	96	15MAY07	28SEP07		1,249	18,470.40					
1204-173	Purchase material for boxes&spacers (in job 1204	35	20JUN07	08AUG07		379	6,237.64					
Voltage Loops & Protective Boxes												
3101-800	Design Routing and Boxes	20	01OCT07*	26OCT07		437	9,794.54					
3101-802	Fab 3 protective Boxes	10	29OCT07	09NOV07		447	1,118.28					
3101-804	Purchase 900ft cable	20	29OCT07*	23NOV07		437	2,414.38					
3101-806	Title III	20	29OCT07	23NOV07		437	964.74					
Subtotal		0		14FEB08		1,159	293,824.02					
36 - Edge and Divertor Diagnostics												
Job: 3601 - Edge Divertor Diagnostics-STRATTON												
361-001	Design Visible Camera sys	40	01OCT09*	25NOV09		280	17,054.80					
361-015	Procure flange>window and material	65	30NOV09	10MAR10		280	5,012.00					
361-016	fabricate and assemble Visible tv camera sys	20	11MAR10	07APR10		280	8,828.96					
Subtotal		125	01OCT09	07APR10		280	30,895.76					
38 - Electron Beam (EB) Mapping												
Job: 3801 - Electron Beam Mapping-STRATTON												
380-010	E-beam mapping- Prelim Design	30	01JUL09*	12AUG09		277	44,761.80					
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					
380-110	E-beam mapping-FDR	1	28SEP09	28SEP09		277	0.00					
380-115	E-beam mapping-Procure Rack	65	29SEP09*	11JAN10		277	47,332.31					
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					

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year										
								FY07	FY08	FY09	FY10	FY11						
380-135	E-beam mapping- Assemble	65	12JAN10*	12APR10		277	94,239.24											R///RM2 =160hr ; EM//EM =20hr ; EMT/TB =336 ; EC//EM =200hr ; ee//tb=16
Subtotal		192	01JUL09	12APR10		277	262,911.07											
39 - Diagnostics Integration																		
Job: 3901 - Diagnostics sys Integration-STRATTON																		
390-03	LOE Support FY07	106*	01MAY07	28SEP07		1,249	11,592.72											R///RM2 =72hr ;
390-04	LOE Support FY08	249*	01OCT07*	29SEP08		1,000	29,228.35											R///RM2 =173hr ;
390-05	LOE Support FY09	247*	01OCT08*	28SEP09		752	30,084.70											R///RM2 =173hr ;
390-06	LOE Support FY10	246*	01OCT09*	28SEP10		504	62,037.90											R///RM2 =345hr ;
Subtotal		851	01MAY07	28SEP10		504	132,943.67											
4 - Electrical Power Systems																		
41 - AC Power																		
Job: 4101 - AC Power-RAMAKRISHNAN																		
411 - Auxiliary AC Power Systems																		
4101-100.1	Prepare Preliminary One line diagram	173	01OCT08*	12JUN09		299	1,390.80											EA//SB =06hr ; EE//EM =02hr ; EE//SM =02hr ;
411-1-100	Ex-Test cell AC pwr-Reactiv.&new instl	210	02JAN09*	27OCT09		343	12,652.35											41=05\$K ; EA//SB =05hr ; EE//EM =08hr ; EE//SM =13hr ; EE//TB =21hr ;
411-2-2	Grounding-Dsn	65	02JAN09*	02APR09		349	32,604.96											EA//SB =160hr ; EE//EM =72hr ;
411-2-4	Grounding-Procure	107	18AUG09*	28JAN10		299	14,218.60											41=10\$K ;
411-2-6	Grounding-Install	43	29JAN10*	30MAR10		299	46,659.48											41=18\$K ; EE//EM =28hr ; EA//SB =56hr ; EE//TB =112hr ;
411-2-8	Grounding-Commission	29	31MAR10*	10MAY10		299	16,166.80											EE//EM =24hr ; EA//SB =40hr ; EE//TB =80hr ;
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&xfrms)**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											
412 - Experimental AC Power Systems																		
412-1-2	C-site Pulsed AC Power Distr-Dsn	65	02MAR09*	01JUN09		308	4,832.00											EA//SB =16hr ; EE//EM =16hr ;
412-1-4	C-site Pulsed AC Power Distr-Procure	65	18AUG09	17NOV09		333	7,076.54											41=05\$K ;
412-1-6	C-site Pulsed AC Power Distr-Install	40	18NOV09	26JAN10		333	11,553.36											EE//EM =08hr ; EE//SM =16hr ; EE//TB =80hr ; EA//SB =08hr ;
412-1-8	C-site Pulsed AC Power Distr-Commission	40	27JAN10	23MAR10		333	11,384.00											EE//EM =24hr ; EE//SM =24hr ; EE//TB =40hr ;
4101ACPWR	Prior ac pwr work reclassified as gpp	356	01MAY07A	31MAY07A			-104,100.00											
Subtotal		0		10MAY10		299	54,438.89											

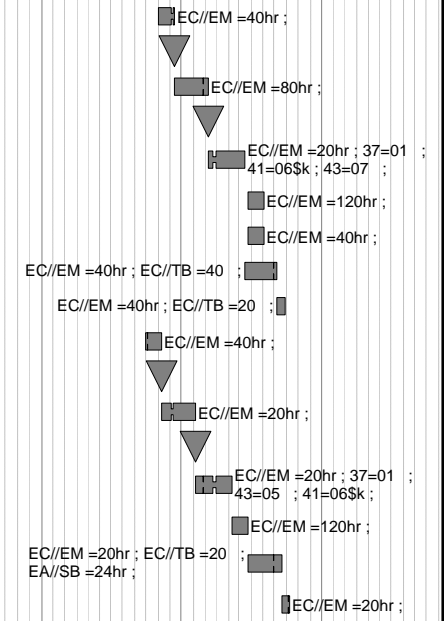
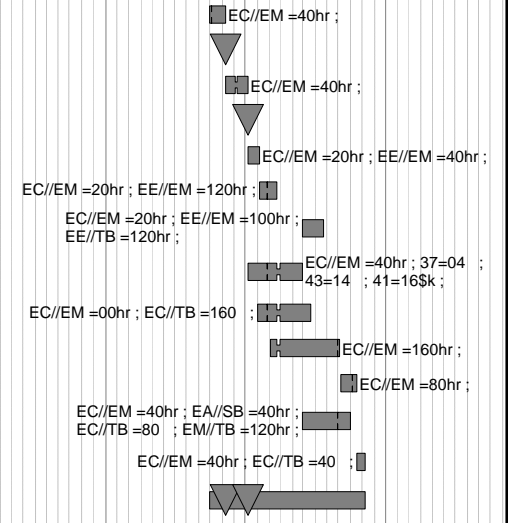
Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost					
								FY07	FY08	FY09	FY10	FY11
43 - DC Systems												
Job: 4301 - DC Systems-RAMAKRISHNAN												
431 - C-Site DC Systems												
431-200	Condition/spare parts inventory	20	01OCT08*	28OCT08		616	2,308.00					EE//EM =08hr ; EE//SM =06hr ;
431-210	Organize & verify documentation	20	29OCT08*	25NOV08		616	4,531.16					EA//SB =10hr ; EE//EM =16hr ; EE//SM =03hr ;
431-215	Document status	10	26NOV08*	11DEC08		616	2,857.28					EE//EM =16hr ;
431-225	Reactivate DF & PEI units	15	12DEC08*	12JAN09		616	22,697.68					EE//EM =40hr ; EE//SM =08hr ; EE//TB =40hr ; 41=08\$K ;
431-230	Duummy Load test of DF & PEI units	15	13JAN09*	02FEB09		616	11,490.04					EE//EM =32hr ; EE//TB =40hr ; EE//SM =08hr ; 41=01\$K ;
431-240	Simulate each of 6 pwr loops in PSCAD	90	01OCT08*	16FEB09		518	18,572.32					EE//EM =104hr ;
431-250	c-site dc sys DGS dsn documentation	90	01OCT08*	16FEB09		518	61,765.20					EA//SB =240hr ; EE//EM =180hr ;
431-261	Redo power loop design	90	01OCT08*	16FEB09		518	52,479.04					EA//SB =240hr ; EE//EM =128hr ;
431-265	Fabricate bus components	20	29JUL09*	25AUG09		404	86,139.48					EE//EM =16hr ; EE//SM =40hr ; EE//TB =120hr ; 41=45\$K ; EA//SB =40hr ;
431-275	Power cabling & Installation	68	01OCT09*	18JAN10		379	317,964.40					41=140\$K ; EE//EM =40hr ; EE//SM =240hr ; EE//TB =520hr ; EA//SB =240hr ;
431-276	Maint of C-site rectifiers	501	01OCT07*	02OCT09		445	22,026.38					41=05\$K ; EE//TB =120hr ; EE//SM =40hr ;
Subtotal		567	01OCT07	18JAN10		379	602,830.98					
44 - Control and protection Systems												
Job: 4401 - Control & Protection-RAMAKRISHNAN												
441 - Electrical Interlocks												
441-095	Design Interlock sys	40	01JUN09*	27JUL09		495	30,948.00					EA//SB =40hr ; EE//EM =80hr ; EE//SM =80hr ;
441-097	Install Interlock sys	40	28JUL09	22SEP09		495	26,011.20					EE//EM =80hr ;
441-100	PLC Specification	20	02MAR09*	27MAR09		304	12,493.28					EE//EM =24hr ; EE//SM =56hr ;
441-105	Prep Block diagrams	20	30MAR09	24APR09		304	16,010.72					EE//EM =24hr ; EE//SM =80hr ;
441-110	PLC CWD's & Cabling	40	27APR09*	22JUN09		304	63,679.68					EE//EM =16hr ; EE//SM =240hr ; EE//TB =320hr ;
441-115	deliver PLC	130	23JUN09	06JAN10		304	98,920.77					41=70\$K ;
441-120	Program PLC Logic	45	07JAN10	10MAR10		304	48,189.60					EE//EM =64hr ; ee/sm=240
441-125	Program Control pages	40	11MAR10	05MAY10		304	30,509.20					EC//EM =40hr ; EE//EM =32hr ; EE//SM =120hr ;
441-130	Pre-commissioning tests	20	06MAY10	03JUN10		304	27,004.00					41=01\$K ; EE//EM =40hr ; EE//SM =120hr ;
441-135	Install I/O Cabling control & protection	90	25FEB10	01JUL10		304	127,497.20					41=38\$K ; EA//SB =160hr ; EE//EM =40hr ; EE//SM =80hr ; EE//TB =400hr ;
442 - Kirk Key Interlocks												
442-1-2	Kirk Keys-Dsn	40	01OCT09*	25NOV09		324	23,657.60					EA//SB =80hr ; EE//EM =40hr ; EE//SM =40hr ;
442-1-4	Kirk Keys-Procure	65	30NOV09	10MAR10		324	19,434.40					41=10\$K ; EE//EM =08hr ; EE//SM =24hr ;
442-1-6	Kirk Keys-Install	40	11MAR10	05MAY10		324	34,702.00					41=15\$K ; EE//EM =16hr ; EE//SM =24hr ; EE//TB =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		
442-1-8	Kirk Keys-Commission	20	06MAY10	03JUN10		324	7,643.00			EE//EM =16hr ; EE//SM =20hr ; EE//TB =20hr ;				
443 - Real Time Control Systems														
443-1-2	Develop Control Algorithms-Dsn	65	01OCT09*	13JAN10		424	14,772.00						EE//EM =80hr ;	
444 - Instrument Systems														
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 ;				
445 - Coil Protection Systems														
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							
445-2-140	Overload Protection&cabling design,procure instl	130	27OCT09*	10MAY10		341	61,328.23			EA//SB =64hr ; EE//EM =16hr ;			41=13\$K ; EA//SB =80hr ; EE//EM =96hr ; EE//SM =45hr ; EE//TB =96hr ;	
Subtotal		376	02FEB09	02AUG10		283	1,083,876.24							
45 - Power System Design and Integration														
Job: 4501 - Power Sys Dsn & Integr-RAMAKRISHNAN														
451 - System Design & Interfaces														
451-0-2	Develop SRD	15	01OCT08*	21OCT08		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							
451-6-2	Final design C-Site -Cabling	149	19DEC08	28JUL09		404	29,096.80						EA//SB =120hr ; EE//EM =80hr ;	

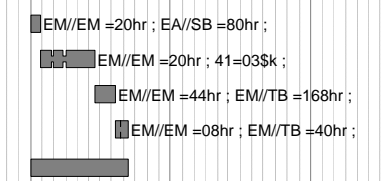
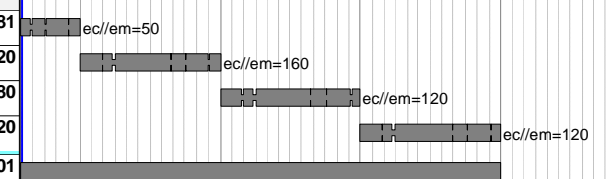
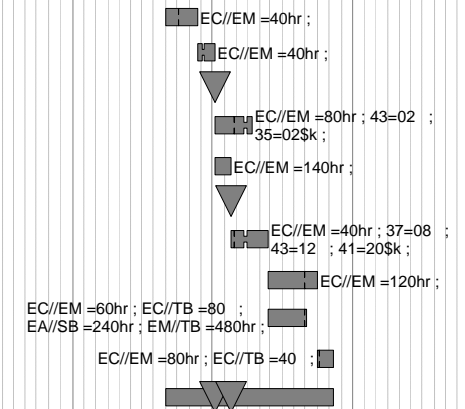
Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year				
								FY07	FY08	FY09	FY10	FY11
451-2-2.1	Final Design C-Site	149	19DEC08	28JUL09		404	29,096.80					
451-1-2	Calculations-Dsn	149	22OCT08*	01JUN09		444	8,130.56					
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					
451-402.1	FDR AC auxiliaries & grounding-Dsn	0		17AUG09		299	0.00					
452 - Electrical Systems Support												
452-1-2	Diagnostics AC Power Distr-Dsn	40	02MAR09*	24APR09		399	34,033.60					
452-1-4	Diagnostics AC Power Distr-Procure	40	27APR09	22JUN09		399	2,384.36					
452-1-6	Diagnostics AC Power Distr-Install	130	23JUN09	06JAN10		399	78,393.29					
452-1-8	Diagnostics AC Power Distr-Commission	30	07JAN10	17FEB10		399	29,816.40					
452-2-2	Diagnostics sensor cabling-Dsn	43	01MAY09*	01JUL09		434	24,033.12					
452-2-4	Diagnostics sensor cabling-Procure	65	02JUL09	02OCT09		434	2,796.15					
452-2-6	Diagnostics sensor cabling-Install	43	05OCT09	04DEC09		434	21,064.80					
452-2-8	Diagnostics sensor cabling-Commission	10	07DEC09	18DEC09		434	6,554.16					
453 - System Testing (PTP's)												
453-1-2	New Procedures	90	01JUL09*	05NOV09		363	24,269.34					
453-1-3	Preop Testing-Procure test equipt	65	03AUG09*	02NOV09		446	28,187.69					
453-1-4	TF Coil Test	20	11OCT10*	05NOV10		215	19,528.70					
453-1-5	PF Coil Test	20	11OCT10*	05NOV10		215	19,528.70					
453-1-6	Trim Coil Coil Test	20	11OCT10*	05NOV10		215	18,794.70					
453-1-8	Testing PTPs, ISTPs	100	17JUN10*	05NOV10		215	160,083.28					
Subtotal		523	01OCT08	05NOV10		215	684,610.51					
5 - Central I&C Systems												
51 - Network and Fiber Infrastructure												
Job: 5101 - Network and Fiber Infrastruct-SICHTA												
R51-10	Preliminary Design	30	01JUL09*	12AUG09		322	4,652.70					
R51-11	PDR	0		12AUG09		322	0.00					
R51-20	Final Design	60	13AUG09	05NOV09		322	4,721.21					
R51-21	FDR	0		05NOV09		322	0.00					
R51-30	Procurement	60	06NOV09	11FEB10		322	53,416.80					
R51-50	Installation	60	12FEB10	06MAY10		322	83,587.00					
R51-60	Test	14	07MAY10	26MAY10		322	4,766.40					

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost					
								FY07	FY08	FY09	FY10	FY11
Subtotal		224	01JUL09	26MAY10		322	151,144.11					
52 - Central Instrumentation & Control												
Job: 5201 - I&C Systems-SICHTA												
R52-10	Preliminary Design	30	02MAR09*	10APR09		278	6,203.60	EC//EM =40hr ;				
R52-11	PDR	0		10APR09		278	0.00	EC//EM =40hr ;				
R52-20	Final Design	60	13APR09	07JUL09		278	6,203.60	EC//EM =20hr ; 37=03 ; 43=17 ; 41=18\$K ;				
R52-21	FDR	0		07JUL09		278	0.00	EC//EM =80hr ;				
R52-30	Procurement	30	08JUL09	18AUG09		278	33,899.80	EC//EM =40hr ;				
R52-40	EPICS Programming - Base	10	19AUG09	01SEP09		278	12,407.20	EC//EM =120hr ;				
R52-50	EPICS Programming - VDCT db editor	30	02SEP09	14OCT09		458	6,273.87	EC//EM =160hr ; 43=02 ; 35=02\$K ;				
R52-60	IOC Programming - MDSplus data & events	30	02SEP09	14OCT09		458	18,821.60	EC//EM =80hr ;				
R52-70	OPC - EPICS/PLC Interface	90	02SEP09	20JAN10		278	28,002.44	EC//EM =100hr ;				
R52-80	Appl. Programming-T/C	30	21JAN10	03MAR10		278	12,828.80	EC//EM =40hr ;				
R52-90	Programming - misc.	90	04MAR10	09JUL10		278	16,036.00	EC//EM =120hr ;				
R52-100	Installation	60	15APR10	09JUL10		278	49,987.20	EA/SB =120hr ; EM/TB =240hr ;				
R52-110	Test	14	12JUL10	29JUL10		278	6,414.40	EC//EM =40hr ;				
Subtotal		354	02MAR09	29JUL10		278	197,078.51					
53 - Data Acquisition & Facility Computing												
Job: 5301 - Data Acquisition-SICHTA												
R53-10	Preliminary Design	30	01MAY09*	12JUN09		284	6,203.60	EC//EM =40hr ;				
R53-11	PDR	0		12JUN09		284	0.00	EC//EM =80hr ;				
R53-20	Final Design	30	15JUN09	27JUL09		284	12,407.20	EC//EM =20hr ; 37=02 ; 43=03 ; 41=17\$K ;				
R53-21	FDR	0		27JUL09		284	0.00	EC//EM =00hr ; EC//TB =40 ;				
R53-30	Procurement	30	28JUL09	08SEP09		284	30,618.80	EC//EM =80hr ;				
R53-40	Installation	30	09SEP09	20OCT09		284	3,063.79	EC//EM =80hr ;				
R53-50	MDSplus Installation	20	21OCT09	17NOV09		284	12,828.80	EC//EM =80hr ;				
R53-60	MDSplus Programming - Tree Design	20	18NOV09	17DEC09		284	12,828.80	EC//EM =80hr ;				
R53-70	MDSplus Programming - Shot Sync	20	18DEC09	26JAN10		284	12,828.80	EC//EM =80hr ;				
R53-110	Programming - Misc.	60	27JAN10	20APR10		284	25,657.60	EC//EM =160hr ;				
R53-80	MDSplus Programming - Dispatcher	30	21APR10	02JUN10		284	25,657.60	EC//EM =160hr ;				
R53-90	MDSplus Programming - Acquisition	20	03JUN10	30JUN10		284	12,828.80	EC//EM =80hr ;				
R53-120	Test	14	01JUL10	21JUL10		284	9,532.80	EC//EM =40hr ; EC//TB =40 ;				
Subtotal		304	01MAY09	21JUL10		284	164,456.59					

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost					
								FY07	FY08	FY09	FY10	FY11
54 - Facility Timing & Synchronization												
Job: 5401 - Facility Timing & Synchron.-SICHTA												
R54-10	Preliminary System Design	30	01JUL09*	12AUG09		272	6,203.60					
R54-11	PDR	0		12AUG09		272	0.00					
R54-20	Final SystemDesign	40	13AUG09	08OCT09		272	6,235.22					
R54-21	FDR	0		08OCT09		372	0.00					
R54-30	Preliminary Design - Clock Dist.	20	09OCT09	05NOV09		372	10,593.20					
R54-40	Final Design - Clock Dist.	30	06NOV09	21DEC09		372	25,365.20					
R54-50	Test - Clock Dist.	40	26FEB10	22APR10		332	31,617.80					
R54-60	Procurement	90	09OCT09	25FEB10		282	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	08DEC09	04JUN10		272	25,657.60					
R54-90	Central Clock (EPICS) Programming	30	07JUN10	19JUL10		272	12,828.80					
R54-100	Installation	90	26FEB10	02JUL10		282	27,987.20					
R54-110	Test	14	20JUL10	06AUG10		272	9,532.80					
Subtotal		274	01JUL09	06AUG10		272	205,357.42					
55 - Real Time Plasma & Power Supply Control Sys												
Job: 5501 - Real Time Control System-SICHTA												
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
Subtotal		254	01JUL09	09JUL10		292	129,109.23					
56 - Central Safety and Interlock Systems												
Job: 5601 - Central Safety & Interlock Sys-SICHTA												
R56-10	Requirements, Codes&Standards	60	01JUN09*	24AUG09		268	6,203.60					
R56-20	Preliminary Design	30	25AUG09	06OCT09		268	6,231.71					
R56-21	PDR	0		06OCT09		268	0.00					
R56-30	PLC Training	60	07OCT09	12JAN10		388	15,374.80					
R56-35	Final Design	30	07OCT09	17NOV09		268	22,450.40					
R56-36	FDR	0		17NOV09		268	0.00					
R56-40	Procurement	60	18NOV09	23FEB10		268	50,126.40					
R56-50	PLC Programming	90	24FEB10	30JUN10		268	19,243.20					
R56-60	Installation	70	24FEB10	02JUN10		288	87,412.00					
R56-70	Test	30	01JUL10	12AUG10		268	15,947.20					
Subtotal		300	01JUN09	12AUG10		268	222,989.31					
58 - Central I&C management and Integration												
Job: 5801 - Central I&C Integr& Oversight-SICHTA												
R58-10	WBS58 -FY07 Management & Integration LOE	107	01MAY07*	01OCT07		1,248	7,182.81					
R58-20	WBS58 -FY08 Management & Integration LOE	250	01OCT07*	30SEP08		999	24,107.20					
R58-30	WBS58 -FY09 Management & Integration LOE	249	01OCT08*	30SEP09		750	18,610.80					
R58-40	WBS58 -FY10 Management & Integration LOE	248	01OCT09*	30SEP10		502	19,243.20					
Subtotal		853	01MAY07	30SEP10		502	69,144.01					
6 - Facility Systems												
61 - Water Systems												
Job: 6101 - Water Systems-DUDEK												
613 - Vacuum Pumping System												
6101-100	Design Vac Pmp water sys	20	01OCT08*	28OCT08		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	21,135.28					
6101-115	Test Vac Pmp water sys	22	12MAY09	11JUN09		487	4,622.40					
Subtotal		172	01OCT08	11JUN09		487	46,400.37					



Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year				
								FY07	FY08	FY09	FY10	FY11
62 - Cryogenic Systems												
Job: 6201 - Cryogenic Systems-DUDEK												
621 - LN2-LHe Supply System												
621-101	LN2 - LHe Supply-Preliminary Design	20	01OCT08*	28OCT08		450	9,256.72					EM/EM =44hr ; EA/SB =16hr ;
621-121	LN2 - LHe Supply-Final Design	20	29OCT08	25NOV08		451	10,244.08					EM//EM =44hr ; EA/SB =24hr ;
621-131	LN2 - LHe Supply-Procure Hardware & Materials	65	01OCT09*	13JAN10		353	40,282.16					41=28.13\$K ;
621-141	LN2 - LHe Supply-Fabricate & Assembly	35	14JAN10	03MAR10		353	20,272.00					EM/TB =160hr ; ee/tb=80
621-151	LN2 - LHe Supply-Title III	100	01OCT09	03MAR10		353	7,529.72					EM//EM =44hr ;
622 - LN2 Coil Cooling Supply												
622-101	LN2 Coil Cooling Supply-Prelim Design	20	01OCT08*	28OCT08		450	10,984.60					EM//EM =44hr ; EA/SB =30hr ;
622-121	LN2 Coil Cooling Supply-Final Design	20	29OCT08	25NOV08		451	10,984.60					EM//EM =44hr ; EA/SB =30hr ;
622-131	LN2 Coil Cooling Supply-Procure Hardware	65	12AUG09*	11NOV09		373	22,398.49					41=15.85\$K ;
622-141	LN2 Coil Cooling Supply-Assemble Skid	25	12NOV09	18DEC09		373	18,158.80					EM/TB =180hr ; em/sm=20
622-151	LN2 Coil Cooling Supply-Relocate skid to NCSX TC	25	21DEC09	03FEB10		373	18,158.80					EM/TB =180hr ; em/sm=20
622-161	LN2 Coil Cooling Supply-Title III	115	12AUG09	03FEB10		373	7,454.33					EM//EM =44hr ;
623 - GN2 Cryostat Cooling System												
623-100	GN2 Cryostat Cooling Sys Development	30	05DEC08*	26JAN09		365	87,993.60					em//em=160;ea/sb=160;em/tb=160;ee//em=160
623-101	GN2 Cryostat Cooling Sys-Preliminary Design	30	02FEB09*	13MAR09		361	18,176.80					EM//EM =80hr ; EA/SB =40hr ;
623-121	GN2 Cryostat Cooling Sys-Analysis	30	19MAR09*	29APR09		328	30,593.60					EA//EM =160hr ;
623-141	GN2 Cryostat Cooling Sys-WBS 62/171 PDR	1	30APR09	30APR09		328	1,324.00					EM//EM =08hr ;
623-161	GN2 Cryostat Cooling Sys-Final Design	20	01MAY09	29MAY09		328	16,942.60					EM//EM =80hr ; EA/SB =30hr ;
623-181	GN2 Cryostat Cooling Sys-WBS 62/171 FDR	1	11AUG09	11AUG09		278	1,324.00					EM//EM =08hr ;
623-201	GN2 Cryostat Cooling Sys-Procure Hardware	88	12AUG09	16DEC09		278	144,346.32					41=101.785\$K ;
623-221	GN2 Cryostat Cooling Sys-Assemble & Install	122	17DEC09	17JUN10		278	156,307.20					EM//TB =1,600hr ; ee//tb=240
623-261	WBS 62/171 Cryo systems PTP	10	18JUN10	01JUL10		278	13,666.00					EM//EM =40hr ; EM//TB =80hr ;
623-262	GN2 Cryostat Cooling Supply-Title III	258	12AUG09	25AUG10		527	8,177.58					EM//EM =48hr ;
Subtotal		472	01OCT08	25AUG10		527	654,576.00					
63 - Utility Systems												
Job: 6301 - Utility Systems-DUDEK												
6301-001	Vac Vent and Air sys- Prelim Dsn	20	06OCT08*	31OCT08		514	18,479.60					EM//EM =52hr ; EA/SB =80hr ;
6301-005	Vac Vent and Air sys- PDR	1	03NOV08*	03NOV08		514	1,324.00					EM//EM =08hr ;
6301-009	Vac Vent and Air sys- Final dsn	10	04NOV08*	17NOV08		514	11,859.60					EM//EM =12hr ; EA/SB =80hr ;
6301-010	Vac Vent and Air sys- FDR	1	18NOV08*	18NOV08		514	1,324.00					EM//EM =08hr ;
6301-013	Vac Vent and Air sys- Procure hardware and compo	60	19NOV08	23FEB09		514	37,396.80					EM//EM =20hr ; 41=24.398\$K ;
6301-017	Vac Vent and Air sys- Fabricate and Install	40	24FEB09*	20APR09		514	29,862.12					EM//EM =20hr ; EM//TB =322hr ;
6301-020	Vac Vent and Air sys-Test	10	21APR09*	04MAY09		514	4,622.40					EM//EM =08hr ; EM//TB =40hr ;

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year				
								FY07	FY08	FY09	FY10	FY11
Subtotal		142	06OCT08	04MAY09		514	104,868.52					
64 - PFC/VV Heating & Cooling (Bakeout)												
Job: 6401 - PFC/VV Htng/Cooling(bakeout)- DUDEK												
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					
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	233,883.63					
6401-013	Assemble & Install	65	19NOV09*	03MAR10		379	169,667.40					
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					
Subtotal		267	05MAR09	31MAR10		379	557,297.43					
7 - Test Cell Preparation and Machine Assy												
73 - Platform Design & Fabrication												
Job: 7301 - Platform Design & Fab-PERRY												
711A.040	Platform nut plates	40	02OCT08	26NOV08		245	3,004.40					
712.020	Platform Parts	40	02OCT08	26NOV08		245	34,225.00					
712.030	Miscs Hardware/Material	40	02OCT08	26NOV08		245	22,352.00					
7301-100	Survey & layout locations for platform posts	10	13NOV08	26NOV08		245	25,252.80					
7301-102	Machine platform trial assembly & fitup	20	01DEC08*	06JAN09		245	119,740.80					
Subtotal		60	02OCT08	06JAN09		245	204,575.00					
74 - Machine Assembly Planning and Oversight												
Job: 7401 - TC Prep & Mach Assy Planning-PERRY												
Oversight and Supervision												
1802ORNLF	ORNL Title III final machine assy	483*	12FEB09	21JAN11		215	381,951.36					
714.030	LOE Start of assy through thru completion	483*	12FEB09	21JAN11	LOE	215	1,026,369.53					
714.031	Additional supervision for 2nd shift	231*	10MAR10*	26JAN11	2	437	276,137.38					
7401ACPWR	Prior ac pwr work reclassified as gpp	356	01MAY07A	31MAY07A			-308,300.00					
714.020	LOE Prior to assy starting	356	01OCT07*	10MAR09		926	32,389.94					
714.025	Update Final Assembly Plan	45	03OCT08*	08DEC08		259	26,480.00					
7502-001	Test Cell 110/208voutlets GPP SCOPE TO COMPLETE	65	15AUG08*	14NOV08		273	0.00					

EM//EM =80hr ;
EM//EM =152hr ; EA//SB =120hr ;
EM//EM =08hr ;
EA//EM =160hr ;
EM//EM =152hr ; EA//SB =120hr ;
EM//EM =08hr ;
41=165.185\$K ;
EM//TB =1990hr ;
EM//EM =40hr ; EM//TB =40hr ;
EM//EM =40hr ; EM//TB =120hr ;

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

ORNLEM =1670;ornldm=835
travel=12
Perry 1.0 fte Langella 1.0 fte
2nd shift supervision 1.0 fte

EM//EM =120hr ; EE//SM =90hr ;
EM//EM =160hr ;

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost					
								FY07	FY08	FY09	FY10	FY11
Subtotal		0		26JAN11		426	1,435,028.21					
75 - Test Cell and Basement Assembly Operations												
Job: 7501 - Construction Support Crew-PERRY												
General Assy Support												
7501-06	Construction Support Crew for 2nd shift	231*	10MAR10*	26JAN11	2	437	473,000.63	Tool Crib Control em//tb= (.75 fte) Crane Operator & support em//tb= (1.0 fte)				
7501-05	Construction Support Crew during machine assy	505*	12FEB09	21JAN11		218	962,705.80	Forklift Operator & support em//tb= (1.0 fte)				
Subtotal		508	12FEB09	26JAN11		437	1,435,706.43	Tool Crib Control Crane Operator Forklift Operator				
Job: 7503 - Machine Assembly (station 6)-PERRY												
7501-10	Fabricate/Assemble assembly structure	30	01OCT08*	11NOV08	1	221	239,444.80	EM//EM =96hr ; EM//TB =960hr ; EM//SM =240hr ; 41=80\$K ;				
7501-10.1	Fab struct to go between assy sleds&FPA's	20	12NOV08	11DEC08	1	221	239,444.80	41=80; EM//EM=96 EM//SM=240EM//TB=960				
7501-10.2	Assemble 3 FPA support stands	15	12DEC08	12JAN09	1	221	63,842.40	EM//EM=48 EM//SM=120 EM//TB=480				
7501-10.3	Assemble 3 VV spool piece support stands	10	13JAN09	26JAN09	1	221	42,561.60	EM//EM=32 EM//SM=80 EM//TB=320				
7501-10.4	Assemble machine base structure	10	27JAN09	09FEB09	1	221	42,561.60	EM//EM= 32 EM//SM=80 EM//TB=320				
7501-10.5	Assemble 3 FPA installation carts	10	10FEB09	23FEB09	1	221	42,561.60	EM//EM=32 EM//SM= 80 EM//TB=320				
7501-10.6	Fab 3 laser support poles	30	10FEB09*	23MAR09	1	250	73,108.80	41=24; EM//TB=480				
7501-10.7	Fab 3 concrete blocks for testing assy struct	12	24MAR09	08APR09	1	250	44,288.32	41=18 ;EM//EM=20 EM//TB=192				
7503-010	Begin Assembly Activities	0	12FEB09*		1	219	0.00	EA//EM =60hr ; EM//TB =480hr ; EM//SM =120hr ;				
7503-020	Install Permanent support base and columns	10	12FEB09	25FEB09	1	219	67,371.00	EM//EM =72hr ; EM//SM =180hr ; EM//TB =720hr ;				
7503-015	Install Temp Assembly Structure	15	26FEB09	18MAR09	1	219	95,763.60	EM//SM =16hr ; EM//TB =32hr ;				
7503-060	Install Lower PF 4,5&6 into prelim position	1	19MAR09	19MAR09	1	219	4,814.40	EA//EM =40hr ; EM//TB =320hr ; EM//SM =80hr ; EM//TB =80hr ;				
7503-070	Install 3 Spool Pieces on fixt & test movement	10	20MAR09	02APR09	1	219	51,510.80	Metrr=640;EM//EM=64 EM//TB=160				
7501-10.9	Install test cell metrology site monuments & chk	20	03APR09	30APR09	1	219	85,123.20	Metrr=120;EM//EM=48 EM//SM=120 EM//TB=640				
7501-10.10	Test TC floor deflections with concrete block	15	01MAY09	21MAY09	1	219	73,737.60	EM//EM=80EM//SM=320 EM//TB=640				
7501-10.8	Exercise assy struc with concrete blocks & metro	20	22MAY09	19JUN09	2	219	109,528.00	Metrr=320;EM//EM=80EM//SM=320 EM//TB=640				
7503-080A	FPA-1 Installation and assembly test	20	26JUN09	24JUL09	1	215	135,915.20	EM//EM =80hr ; EM//TB =640hr ; EM//SM =320hr ; EM//TB =320hr ;				
7503-080	FPA-1 Installed on sleds	0		24JUL09	1	215	0.00	EA//EM =288hr ; mtrology =288hr ;				
7501-11	Exercise assy struc w/FPA-1 before start of assy	40	27JUL09	21SEP09	1	215	135,915.20	41=45\$K ; EM//EM =12hr ;				
7503-415.7	Measure vsl gaps to determ spool piece dimension	18	22SEP09	15OCT09	1	215	80,453.76	41=30\$K ; EM//EM =8hr ;				
7503-415.0	Spool piece installation test	20	16OCT09	12NOV09	1	215	140,532.00	41=30\$K ; EM//EM =8hr ;				
7503-416.1	Machine Flange A & B of Spool Piece 1	30	13NOV09	07JAN10	1	215	44,329.04	41=30\$K ; EM//EM =8hr ;				
7503-416.2	Machine Flange A & B of Spool Piece 2	30	08JAN10	18FEB10	1	215	44,329.04	Metrr=320;EM//EM=80EM//SM=320				
7503-416.3	Machine Flange A & B of Spool Piece 3	30	19FEB10	01APR10	1	215	44,329.04					
7503-110A	FPA-2 Installation and assembly test	20	22OCT09	18NOV09	1	226	140,532.00					
7503-110	FPA-2 Installed on sleds	0		18NOV09	1	226	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
7503-150A	FPA-3 Installation and assembly test	20	02DEC09	08JAN10	1	219	140,532.00					
7503-150	FPA-3 Installed on sleds	0		08JAN10	1	219	0.00					
7503-120	Test movement of FPA's incl position checks.	5	11JAN10	15JAN10	1	219	26,630.20					
7503-400	Install inboard and outboard shims	6	18JAN10	25JAN10	1	219	95,147.05					
7503-402	Move all FPA's together, chk fitup,tack shims	6	26JAN10	02FEB10	1	219	46,323.37					
7503-404	Weld inboard shims on mating flanges	6	03FEB10	10FEB10	1	219	43,595.05					
7503-406	Install TF coils at ends of each FPA	6	11FEB10	18FEB10	1	219	27,211.20					
7503-410	Install spacer supports and spacers	2	19FEB10	22FEB10	1	219	7,706.24					
7503-412	Move FPA's & spacers together/chk fitup	6	23FEB10	02MAR10	1	219	25,847.04					
7503-414	Remove Spacers & Machine spacers to fit	4	03MAR10	08MAR10	1	219	5,456.64					
7503-415	Re-install spacers	2	09MAR10	10MAR10	1	219	7,706.24					
7503-160	Position all FPA's / Spool Pieces @ MC Interface	6	11MAR10	18MAR10	1	219	31,956.24					
7503-090	Install local Platforms around FPA-1	2	19MAR10	22MAR10	2	219	15,412.48					
7503-130	Install local Platforms around FPA-2	2	23MAR10	24MAR10	2	219	15,412.48					
7503-190	Install local Platforms around FPA-3	2	25MAR10	26MAR10	2	219	15,412.48					
7503-415.5	MC Interface: meas holes/mark bushings f/drilling	3	19MAR10	23MAR10	1	219	11,559.36					
7503-415.6	drill eccentric custom holes in bushings	3	24MAR10	26MAR10	1	219	20,151.36					
7503-416	Position Spool pieces and Bolt MC flanges	9	02APR10	14APR10	2	215	39,640.85					
7503-417	Retorque all super nuts after 30 days	6	14MAY10	21MAY10	2	215	79,281.70					
7503-418	Raise permanent supports to take machine loads	8	15APR10	26APR10	2	218	114,363.36					
7503-419	Remove temporary assy structure	1	27APR10	27APR10	2	218	11,559.36					
7503-419.1	Install/Level FPA's and spool piece supports	15	28APR10	18MAY10	2	218	159,781.20					
7503-419.2	FPA Metrology checks to assure alignment	3	24MAY10	26MAY10	2	215	14,729.20					
7503-420	Mate-up and Weld spacers onto vvsa	15	27MAY10	17JUN10	2	215	171,865.20					
7503-422	Weld all six port 4's in place	15	18JUN10	09JUL10	2	215	91,810.80					
7503-422.1	Install E-Beam mapping & diag equipt	5	12JUL10	16JUL10	2	215	45,376.40					
7503-240	Install Vacuum pumping system	3	12JUL10	14JUL10	2	217	19,265.60					
7503-250	Begin Vac Vsl Pumpdown	0	19JUL10		2	215	0.00					
7503-260	PTP Pumpdown & leak check VV	8	19JUL10	28JUL10	2	215	57,796.80					
7503-424	Install TF alingment & traction ring	4	29JUL10	03AUG10	2	215	40,467.27					
7503-426	Pull TF coil radially inward. Verify nose fit up	5	04AUG10	10AUG10	2	215	40,467.27					
7503-428	Lock TF coils at four support locations	4	11AUG10	16AUG10	2	215	40,467.27					
7503-430	Install MC structure insulation boots port 4's	5	17AUG10	23AUG10	2	215	38,531.20					

Metrr=320;EM/EM=80EM/SM=320 EM/TB=640

EA/EM =20hr ; EM/TB =160hr ;
EM/SM =40hr ; EM/TB =40hr ;

41=36\$K ; EA/EM =20hr ;
EM/EM =29hr ; EM/SM =72hr ;
EM/TB =288hr ;

EA/EM =20hr ; EM/EM =29hr ;
EM/SM =72hr ; EM/TB =288hr ;
metrology=32

EA/EM =20hr ; EM/EM =29hr ;
EM/SM =72hr ; EM/TB =288hr ;

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

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

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

EM/TB =64hr ;

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=6\$K ;

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 ;

PUMP DOWN OF VACUUM VESSEL
DOE LEVEL 2 MILESTONE

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 ;

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year				
								FY07	FY08	FY09	FY10	FY11
7503-431	Seal gaps MC shims,cooling tubes, for insul pour	10	24AUG10	07SEP10	2	215	77,062.40			EM//SM =160hr ; EM//TB =640hr ;		
7503-432	Fill MC/VVSA annulus with pourable aerogel insul	1	08SEP10	08SEP10	2	215	7,706.24			EM//SM =16hr ; EM//TB =64hr ;		
7503-433.1	Install LN2 manifolds	5	09SEP10	15SEP10	2	231	38,531.20			EM//SM =80hr ; EM//TB =320hr ;		
7503-434	Instl in-cryostat cabling for elect pwr to coils	8	09SEP10	20SEP10	2	215	52,172.80			EM//SM =80hr ; EM//TB =480hr ;		
7503-436	Connect cabling, and I&C to MC & TF Coils	8	21SEP10	30SEP10	2	215	52,172.80			EM//SM =80hr ; EM//TB =480hr ;		
7503-439	Complete mag diag & machine I&C	5	01OCT10	07OCT10	2	215	51,472.00			EM//SM =160hr ; EM//TB =320hr ;		
7503-438	Align guide mechanism for solenoid installation	1	08OCT10	08OCT10	2	215	7,819.94			EA//EM =06hr ; EM//TB =12hr ; EM//SM =12hr ; EM//TB =43hr ;		
7503-444	Install solenoid support structure	1	11OCT10	11OCT10	2	215	7,148.43			EA//EM =05hr ; EM//TB =10hr ; EM//SM =10hr ; EM//TB =43hr ;		
7503-440	Install solenoid assembly	1	12OCT10	12OCT10	2	215	7,148.43			EA//EM =05hr ; EM//TB =10hr ; EM//SM =10hr ; EM//TB =43hr ;		
7503-442	Connect cabling, LN2 and I&C to solenoid assy	1	13OCT10	13OCT10	2	215	3,984.16			EM//SM =08hr ; EM//TB =32hr ;		
7503-446	Install PF4L	1	14OCT10	14OCT10	2	215	3,984.16			EM//SM =08hr ; EM//TB =32hr ;		
7503-448	Connect cabling, LN2 and I&C to PF4L	1	15OCT10	15OCT10	2	215	3,984.16			EM//SM =08hr ; EM//TB =32hr ;		
7503-450	Adjust spring compression in solenoid sprt struc	1	18OCT10	18OCT10	2	215	3,984.16			EM//SM =08hr ; EM//TB =32hr ;		
7503-451	Raise lower PF 5&6 coils into final position	3	19OCT10	21OCT10	2	215	28,811.28			EA//EM =24hr ; EM//SM =48hr ; EM//TB =192hr ;		
7503-452	Instl Upper PF 4, 5 & 6	3	22OCT10	26OCT10	2	215	28,811.28			EA//EM =24hr ; EM//SM =48hr ; EM//TB =192hr ;		
7503-330	Begin Cryostat Installation	0	27OCT10		2	215	0.00		 BEGIN CRYOSTAT INSTALLATION DOE LEVEL 2 MILESTONE		
7503-454	Install cryostat base, vapor barrier port boots	5	27OCT10	02NOV10	2	215	39,841.60			EM//SM =80hr ; EM//TB =320hr ;		
7503-456	Install elec pwr, LN2, & instr feedthrus	3	03NOV10	05NOV10	2	215	19,920.80			EM//SM =40hr ; EM//TB =160hr ;		
7503-458	Integrated Electrical testing	5	08NOV10	12NOV10	2	215	53,997.60			EM//EM =80hr ; EM//SM =80hr ; EM//TB =320hr ;		
7503-460	Instl transition box,cabling,&connect to pwr sup	5	15NOV10	19NOV10	2	249	39,841.60			EM//SM =80hr ; EM//TB =320hr ;		
7503-462	LN2 connections from coils to manifolds	5	15NOV10	19NOV10	2	223	39,841.60			EM//SM =80hr ; EM//TB =320hr ;		
7503-464	Connect coil & VV instrumentation	5	15NOV10	19NOV10	2	215	39,841.60			EM//SM =80hr ; EM//TB =320hr ;		
7503-466	Connect 150C bakeout	3	22NOV10	24NOV10	2	215	19,920.80			EM//SM =40hr ; EM//TB =160hr ;		
7503-470	Install cryostat cooling syst & instrumentation	10	06DEC10	17DEC10	2	215	159,366.40			EM//SM =320hr ; EM//TB =1,280hr ;		
7503-471	Install cryostat upper section, VB & port boots	5	20DEC10	03JAN11	2	215	39,841.60			EM//SM =80hr ; EM//TB =320hr ;		
7503-472	Install midplane cryostat sections & port boots	8	04JAN11	13JAN11	2	215	59,762.40			EM//SM =120hr ; EM//TB =480hr ;		
7503-473	Install cryostat circulation duct	3	14JAN11	18JAN11	2	215	19,920.80			EM//SM =40hr ; EM//TB =160hr ;		
730.8200	PTP and Cool down	3	19JAN11	21JAN11	2	215	68,103.20			EM//EM =80hr ; EM//SM =80hr ; EM//TB =480hr ;		
Subtotal		570	01OCT08	21JAN11		215	4,518,454.15					

76 - Tooling Design & Fabrication

Job: 7601 - Tooling Design & Fabrication-PERRY

713.020	Lab Fab/Assy/Installation	348	12FEB09*	02JUL10		370	31,049.52
713.030	Tooling,assy fixtures,misc equipt	348	12FEB09*	02JUL10		370	84,942.41
713.040	General procurements	348	12FEB09*	02JUL10		370	63,706.81
713.050	Welding tools, materials & equipt	348	12FEB09*	02JUL10		370	113,256.55

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

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	FY				
								FY07	FY08	FY09	FY10	FY11
713.060	Torque wrenches and multipliers	348	12FEB09*	02JUL10		370	119,996.92	41=80\$; EM//EM =40hr ;				
Subtotal		348	12FEB09	02JUL10		370	412,952.21					

8 - Project Oversight and Support

81 - Project Management and Control

Job: 8101 - Project Management & Control-NEILSON

FY07 Rebaseline Exercise

ECP53RBX16	FY07 Rebaseline exercise	22*	01MAY07*	31MAY07		1,333	4,526.60	R//RM3 =20hr ;				
810.005	Project Management Office PPPL FY07 (LOE)	102*	01MAY07	24SEP07		1,253	278,793.18	Hutch =.85 fte rate ; Strykowsky =.85 fte rate B//CB =.4 fte rate ; 35=3\$; 41=04\$; deputy proj cntrl=.25fte rate				
810.900	Project Management Office PPPL FY08 (LOE)	250*	01OCT07*	30SEP08		999	895,410.81	Hutch =.50 fte rate ; Strykowsky =.85fte rate Pam =.8 fte rate ; 35=10\$; 41=10\$; cnstr mgr=.75 fte rate, deputy proj=.5fte rate				
810.901	Project Management Office PPPL FY09 (SA LOE)	249*	01OCT08*	30SEP09		403	1,014,821.54	Hutch =.50 fte rate ; Strykowsky =.85fte rate Pam =.8 fte rate ; 35=10\$; 41=10\$; cnstr mgr=1.0 fte rate, deputy proj=.				
810.909	Project Management Office PPPL FY10 (LOE)	248	01OCT09	30SEP10		403	926,776.86	Hutch =.25 fte ; Strykowsky=.85 fte 35=06\$; Pam =.8 fte 41=08\$; cnstr mgr=1.0 fte rate, deputy proj=.5fte rate				
810.910	Project Management Office PPPL FY11 (LOE)	99	01OCT10	28FEB11		403	365,348.47	Hutch =.25 fte ; Strykowsky=.85 fte 35=04\$; Pam =.5 fte 41=03\$; cnstr mgr=1.0 fte rate, deputy proj=.5fte rate				
Subtotal		952	01MAY07	28FEB11		403	3,485,677.46					

Job: 8102 - NCSX MIE Management ORNL-LYON

810.104X	Project Management Office ORNL FY07(LOE)	106*	01MAY07	28SEP07		1,249	60,420.00	ORNL81 =60\$;				
810.105X	Project Management Office ORNL FY08 (LOE)	248*	02OCT07*	29SEP08		1,000	159,000.00	ORNL81 =\$159k				
810.105Z	Project Management Office ORNL FY09 (LOE)	249	02OCT08*	01OCT09		402	160,000.00	ORNL81 =\$160k				
810.106X	Project Management Office ORNL FY10 (SA LOE)	248	02OCT09	01OCT10		402	101,000.00	ORNL81 =\$101k				
810.106Z	Project Management Office ORNL FY11 (SA LOE)	99	04OCT10	01MAR11		402	23,760.00	ORNL81 =.24k.day				
Subtotal		953	01MAY07	01MAR11		402	504,180.00					

82 - Project Engineering

Job: 8202 - Engr Mgmt & Sys Eng Support-REIERSEN

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=				

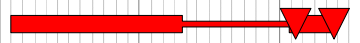
Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost	Fiscal Year				
								FY07	FY08	FY09	FY10	FY11
820.04Z	RLM (WBS 13,15,17) (SA LOE)	853*	01MAY07*	30SEP10		502	168,408.48	reiersen=.15 fte				
820.004Z	Reqmnts mgt & design verification	975*	01MAY07*	31MAR11		380	187,828.65	reierse				
820-004Y	RLM (WBS 2,3 &6) (SA LOE)	747*	01OCT07*	30SEP10		502	128,801.13	Dudek=.15 fte lo				
820.004X	RLM (fabrication) (SA LOE)	949*	01MAY07*	23FEB11		406	650,600.83	Dudek=.				
820.005	RLM (WBS 4 & 5) (SA LOE)	842*	02OCT07*	23FEB11		406	157,859.43	vonhalle				
8205FY07	Systems Engineering Support document control	975*	01MAY07*	31MAR11		380	162,913.78	simmo				
8205FY08	Systems Engineering Support (SA LOE)	949*	01MAY07*	23FEB11		406	188,818.77	simmons				
Subtotal		975	01MAY07	31MAR11		380	2,459,222.06					
Job: 8203 - Design Integration-BROWN												
8203FY07	Design Integration ,& metro support	975*	01MAY07*	31MAR11		380	985,692.58	brown-Morris-				
8203FY08	CAD Support (SA LOE)	949*	01MAY07*	23FEB11		406	375,821.97	Brown =				
Subtotal		975	01MAY07	31MAR11		380	1,361,514.55					
Job: 8204 - Systems Analysis-BROOKS												
8204FY07	Systems Analysis FY07 Analysis for structure dsn	106*	01MAY07	28SEP07		1,249	56,899.20	fan=320hrs				
8204FY08	Systems Analysis, studies and tech assurance	975*	01MAY07*	31MAR11		380	1,103,980.44	Brooks Fan =1 EA/EM				
Subtotal		975	01MAY07	31MAR11		380	1,160,879.64					
Job: 8205 - Dimensional Control Coordin-REIERSEN												
METFY07R1	Dimensional control plans for station 2	65	01JUN07*	31AUG07		221	85,348.80	EA/EM =480hr ;				
METDCP-3	Dimensional control plans for station 3	30	04SEP07	15OCT07		304	28,916.00	EA/EM =160hr ;				
METDCP-5	Dimensional control plans for station 5	80	16OCT07	15FEB08		328	59,443.20	EA/EM =320hr ;				
METDCP-6	Dimensional control plans for station 6	80	18FEB08	09JUN08		340	89,164.80	EA/EM =480hr ;				
METFY08R	Support FPA Station 2	331*	24OCT07	26FEB09		255	89,939.32	ellis =240 hr ea/em=240hrs				
METFY08RX	Support FPA Station 3	355*	23JAN08	19JUN09		223	90,476.48	ellis =240 hr ea/em=240hr				
METFY09	Support FPA Station 5	291*	01OCT08	01DEC09		219	61,487.40	ellis =160hr ea/em=160hr				
METFY10	Support Final Machine Assy	483*	12FEB09	21JAN11		215	94,341.86	ellis =240 hr ea/em=240hr				
Subtotal		904	01JUN07	21JAN11		215	599,117.86					
Job: 8210 - FY07 Rebaseling tasks												
FY07 Rebaseline Exercise												
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 ;				
Subtotal		40	01MAY07	26JUN07		1,315	19,201.20					

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost					
								FY07	FY08	FY09	FY10	FY11
Job: 8215 Plant Design												
FY07 Rebaseline Exercise												
8210-07	Update plant model	42*	01AUG07*	28SEP07		1,249	15,339.20	EM//EM =40hr ; EA/SB =80hr ;				
8210-08	Plant Design FY08	826	01OCT07*	31JAN11		423	105,719.02	EM//EM =				
Subtotal		868	01AUG07	31JAN11		423	121,058.22	EM//SM =				
85 - Integrated Systems Testing												
Job: 8501 - Integrated Systems Testing-GENTILE												
Startup Documentation												
8501-105	ESHD-5008 Environ, Safety, and Health Manual	0	01MAY07A	01MAY07A			0.00	EM//EM =00hr ; EM//SM =00hr ;				
8501-109	ESH-014 NEPA Review System	0	01MAY07A	01MAY07A			0.00	EM//EM =00hr ; EM//SM =00hr ;				
8501-113	ESH-016 Cntrl Haz Energy Sources Lockout Tagout	0	01MAY07A	01MAY07A			0.00	EM//EM =00hr ; EM//SM =00hr ;				
8501-117	ENG-030 PPPL Tech Proced 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 Equipmt & 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 ;				

Activity ID	Activity Description	Duration (work days)	Baseline Start	Baseline Finish	Shifts	Total Float	Latest Budgeted Cost					
								FY07	FY08	FY09	FY10	FY11
920.000	Startup Personnel	76	25OCT10	17FEB11	1	410	418,829.00					
8501-102	Punch list & CSIS & HIS PTP's complete,	5	25OCT10*	29OCT10	1	218	0.00					
8501-103	PTP's complete for ECS,HCS,vac pmpg	5	01NOV10	05NOV10	1	218	0.00					
8501-104	ACC review and ORA	5	08NOV10	12NOV10	1	218	0.00					
730.1250	PSO Operational Readiness Assessment	0		12NOV10	1	218	0.00					
8501-301	Configure for Startup ISTEP	5	15NOV10	19NOV10	1	218	0.00					
8501-305	Coil Testing at room temp	5	29NOV10	03DEC10	1	215	0.00					
8501-106	Coil testing @ cryo temp, Pump-down VV	5	24JAN11	28JAN11	1	215	0.00					
8501-107	Combined field testing, Make 1st Plasma	5	31JAN11	04FEB11	1	215	0.00					
8501-108	Vent VV, Config for & instl e-beam mapping	5	07FEB11	11FEB11	1	215	0.00					
8501-306	E-beam mapping	5	14FEB11	18FEB11	1	215	0.00					
8501-110	NCSX Startup Complete	0		18FEB11	1	215	0.00					
730.9000	CD-4	0		23DEC11*	1	0	0.00					
Subtotal		0		23DEC11		194	764,832.70					

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

COMPLETE OPERATIONAL READINESS ASSESSMENT
DOE LEVEL 2 MILESTONE



Allocations

99 - PPPL Allocations

Job: 8998 - Allocations-STRYKOWSKY

99.07	PPPL Allocations FY07	LOE	106*	01MAY07*	28SEP07		1,249	146,987.80					
99.08	PPPL Allocations FY08	LOE	249*	01OCT07*	29SEP08		1,000	384,384.00					
99.081	PPPL Allocations FY09	LOE	247*	01OCT08*	28SEP09		752	406,232.00					
99.09	PPPL Allocations FY10	SA LOE	248*	01OCT09*	30SEP10		502	430,800.00					
99.10	PPPL Allocations FY10		99*	01OCT10*	28FEB11		403	110,400.00					
Subtotal			952	01MAY07	28FEB11		403	1,478,803.80					

Contingency

Contingency

Contingency-Project

C08	Contingency FY08		249*	01OCT07*	29SEP08		1,000	2,400,000.00					
C09	Contingency FY09		247*	01OCT08*	28SEP09		752	3,947,000.00					
C10	Contingency FY10		246*	01OCT09*	28SEP10		504	3,396,000.00					

