

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06				FY07				FY08				FY09												
							S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
cc 9450 - NCSX Fabrication (MIE)																															
1 - Stellarator Core Systems																															
11 - In-Vessel Components																															
+ Job: 1101 - Limiter Adv Conc/Prel Dsn-**CLOSED*																															
		15JUL03A	30SEP03A	78		60.00																									
12 - Vacuum Vessel Systems																															
+ Job: 1201 - Vacuum Vessel Prelim Dsn-**CLOSED**																															
		09JUL04A	30JUN05A	245		26,901.00																									
+ Job: 1202 - Vacuum Vessel R&D **CLOSED**																															
		01APR03A	30SEP05A	636		1,770,181.86																									
+ Job: 1206 - VV Field Weld Joint R&D-**CLOSED**																															
		29APR04A	30SEP05A	359		15,639.37																									
Job: 1203 - Vacuum Vessel Final Dsn-GORANSON																															
+ Closeout PDR Design Deliverables																															
		01APR03A	30SEP05A	636		239,140.00																									
+ PDR Recommendations																															
		01APR03A	30SEP05A	636		2,543,518.06																									
+ Vacuum Vessel Vendor Selection																															
		01JUN04A	30SEP04A	86		5,782.20																									
+ FY05 Final Design Tasks																															
		01OCT03A	30SEP05A	507		744,133.94																									
Final Design Tasks																															
1203-241	Check FMECA Analyses	01SEP05A	01NOV05	44*	993	9,867.10																									
1203-271	Develop Assy Rqmnts spec & process	03OCT05*	08DEC05	47*	405	32,370.00																									
1203-800	Issue VV FP leak check assy dwg	22SEP05A	15DEC05	59*	451	6,682.98																									
1203-801	Issue VV FP final assy dwg	03OCT05*	15DEC05	52*	451	6,748.00																									
1203-802	Issue spacer machining dwgs	03OCT05*	15DEC05	52*	451	6,748.00																									
1203-803	Issue VV final assy dwg	03OCT05*	15DEC05	52*	400	6,748.00																									
1203-804	Issue VV assy specification	03OCT05*	15DEC05	52*	400	6,748.00																									
1203-806	Establish interface reqmnts	03OCT05*	15DEC05	52*	963	6,748.00																									
1203-815	Cleanup interfaces cleanup interfaces with other	01NOV05*	15DEC05	31*	963	3,374.00																									
1203-820	BOM for all VV parts	01NOV05*	15DEC05	31*	963	5,061.00																									
1203-825	develop acquisition plan for all vv components	01NOV05*	15DEC05	31*	963	3,374.00																									
1203-830	conduct mini fdr/procurement reviews	01NOV05*	15DEC05	31*	963	6,748.00																									
1203-901	**WBS 12 FINAL FDR **		15DEC05	0	451	0.00																									
VV Personnel Access Port																															
1203-950	Personnel Access Port Drawings	03OCT05	17NOV05	34*	981	0.00																									
1203-951	Personnel Access Port Analysis	03OCT05	17NOV05	34*	981	0.00																									

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							FY06				FY07				FY08				FY09																											
							S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
12003-952	Personnel Access Port FDR		17NOV05	0	981	0.00	▼																																							
VV Heating/Cooling Tubing																																														
1203-805	Redo CC heating/cooling tube dwgs & analysis	03OCT05	15DEC05	52*	382	19,422.00	■	ornlem=120																																						
1203-805F	Heating/cooling tube FDR		15DEC05	0	963	0.00	▼																																							
VV Heater Tape																																														
122-012	Heater Tape Design	02MAY05A	15NOV05	140*	471	61,991.37	■	ea//em=87; ornlem=300																																						
VV Local I&C																																														
125-011	Final design WBS 125 local I&C	01MAR05A	22FEB06	247*	408	14,424.23	■	ornlem=90																																						
125-011F	FDR (Define HW & SW reqmnts)		22FEB06*	0	920	0.00	▼																																							
125-011P	PDR (define reqmnts & sys architecture)		18JAN06*	0	945	0.00	▼																																							
Thermal Insulation																																														
122-011	Final design WBS 122 Thermal insulation	01JUN04A	31JAN06	416*	263	82,230.51	■	em//em =20hr ;ornlem=519																																						
122-011F	FDR Thermal Insulation		31JAN06	0	263	0.00	▼																																							
SRX Diagnostic VV Design																																														
1203-810	resolve design pockets for soft x ray arrays	01NOV05*	16FEB06	70*	924	6,748.00	■	ORNLEM =40hr ;																																						
1203-810P	soft x ray array PDR		19JAN06*	0	944	0.00	▼																																							
1203-810F	soft x ray array FDR		16FEB06*	0	924	0.00	▼																																							
Job:1204-VV Sys Procurements (non VVSA)-GORANSON																																														
VV Vertical Supports																																														
124-030.0	Release dwg package for fab VV Vertical Supports	30SEP05A		0		0.00	▼																																							
124-037	PPPL Fab VV Vert. Supports WBS 124	03JUL06*	25SEP06	60	348	65,152.00	■	em//tb=800																																						
124-031	Title III engr WBS 124	03JUL06*	25SEP06	60	348	10,469.02	■	Viola =02hr ; Goranson =60hr ;																																						
VV Lateral Supports																																														
124-030L	SPEA VV Lateral Supports WBS 124	03JUL06*	31AUG06	43	305	0.00	■																																							
124-036.9L	Award VV Lateral Supports WBS 124		02OCT06*	0	283	0.00	▼																																							
124-037L	VV Lateral Supports Fab by PPPL WBS 124	03OCT06	04JAN07	60	283	33,288.00	■	em//tb=400																																						
VV Personnel Access Port																																														
124-100	Issue req & dwg package NB port cover	02AUG06*		0	315	0.00	▼																																							
124-110	SPEA VV NB port cover	02AUG06	29SEP06	43	315	0.00	■																																							
124-120	Award VV NB port cover		29SEP06	0	315	0.00	▼																																							
124-130	VV NB port cover Fabrication	02OCT06	10JAN07	65	315	73,924.32	■	41=\$53.92																																						
VV Heating/Cooling Tubing																																														
123-030.0	Issue Proc Pkg for VV H/C Tubing WBS 123	16DEC05*		0	447	0.00	▼																																							
123-030	Issue RFQ & Select Vendor VV H/C Tubing WBS 123	16DEC05	20JAN06	20	447	0.00	■																																							
123-036.9	Award H/C Tubing WBS 123		20JAN06	0	447	0.00	▼																																							
123-037	Fabricate and Deliver H/C Tubing WBS 123	23JAN06	17FEB06	20	447	61,695.00	■	tubing = 30; brackets=15																																						
123-031	Title III engr WBS 122	16DEC05	31OCT06	220	743	9,504.07	■	Viola =08hr ; Goranson =48hr ;																																						

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							S	O	N	D	S	O	N	D	S	O	N	D	S	O	N	D				
VV Heater Tape																										
122-012A	Issue Proc Pkg for VV Heater Tape	16NOV05		0	523	0.00																				
122-012B	Issue RFQ & Select Vendor for Heater Tape	16NOV05	20JAN06	40	523	0.00																				
122-012C	Award Heater Tape		20JAN06	0	523	0.00																				
122-012D	Fabricate and Deliver Heater Tape	23JAN06	21APR06	65	523	0.00																				
VV H/C Manifolds & Headers																										
123-130.0	Issue Proc Pkg for VV H/C Manifolds WBS 123	16DEC05		0	382	0.00																				
123-130	Issue RFQ & Select Vendor VV H/C Manifold WBS	16DEC05	17FEB06	40	382	0.00																				
123-136.9	Award H/C Manifolds WBS 123		17FEB06	0	382	0.00																				
123-137	Fabricate and Deliver H/C Manifolds WBS 123	20FEB06	19MAY06	65	382	34,275.00																				
VV Local I&C																										
125-036	Issue Procurement Package Local I&C WBS 125	23FEB06*		0	408	0.00																				
125-037	Procurement Local I&C WBS 125	23FEB06	17MAY06	60	408	3,290.40																				
125-015	Title III design Local I&C WBS 125	23FEB06	18MAY06	61	859	3,036.60																				
Thermal Insulation																										
122-050	Prep spec and req Blanket Thermal Insulation	01JUN06*		0	192	0.00																				
122-055	SPEA Blanket Thermal Insulation	01JUN06	31AUG06	65	192	0.00																				
122-060	Award Blanket Thermal Insulation		01SEP06*	0	191	0.00																				
122-065	Deliver Blanket Thermal Insulation	04SEP06	16JAN07	89	191	0.00																				
123-035	Issue Proc Pkg for insulation boots WBS 122	01SEP06*		0	236	0.00																				
123-040	Issue RFQ & Select Vendor insul boots WBS 122	01SEP06	04DEC06	65	236	0.00																				
123-045	Award Insulation Boots WBS 122		04DEC06*	0	236	0.00																				
123-050	Fabricate & Deliver Insul Boots WBS 122	05DEC06	13JUN07	130	236	75,405.00																				
122-040	Prep spec and req Port Thermal Insulation	01NOV06*		0	234	0.00																				
122-035	SPEA Port Thermal Insulation	01NOV06	09FEB07	65	234	0.00																				
122-041	Award Port Thermal Insulation		09FEB07*	0	234	0.00																				
122-051	Deliver Port Thermal Insulation	12FEB07	15JUN07	89	234	0.00																				
122-030.0	Prep spec and req Pourable Insulation	21JAN08		0	124	0.00																				
122-030	SPEA Pourable Insulation	21JAN08	18APR08	65	124	0.00																				
122-036.9	Award Pourable Insulation		18APR08	0	124	0.00																				
122-037	Deliver Pourable Insulation	21APR08	21AUG08	89	124	63,225.00																				
122-031	Title III engr WBS 122	01FEB06	26SEP08	673	263	25,461.76																				
Job: 1250 - Vacuum Vessel Fabrication-VIOLA																										
Start Up/Engineering																										
VVSA-001	Process Order	24SEP04A	29JUL05A	256*		0.00																				
VVSA-011	Sect 5.1 Segmentation Scheme	04NOV04A	19NOV04A	5		96,075.00																				
VVSA-021	Sect 5.1.2 Fiducials	29NOV04A	04NOV05	242*	1,009	0.00																				

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VVSA-421	Join two pieces	10OCT05*	28OCT05	15*	393	55,000.00	48=\$405k																																															
121-140	S005243 #9-Second VVSA fabricated		28OCT05	0	393	0.00	Contract Milestone Payment\$350 (ref only)																																															
VVSA-431	Machine for Ports	31OCT05*	18NOV05	15*	393	95,000.00																																																
VVSA-441	Weld Ports	21NOV05*	23DEC05	25*	393	75,000.00																																																
VVSA-451	Final Machine	31JAN06*	13FEB06	10*	393	50,000.00																																																
VVSA-461	Vacuum Test	26DEC05	16JAN06	16*	393	60,000.00																																																
VVSA-471	Cut Off Ports	17JAN06*	30JAN06	10*	393	50,000.00																																																
VVSA-481	Inspect & pack for Shipping LI#4	14FEB06*	17FEB06	4*	393	23,000.00																																																
VVSA-491	Receive at PPPL	21FEB06	24FEB06*	4	392	22,000.00																																																
121-155	S005243 #12-Receipt /Acceptance of 2nd VVSA		24FEB06*	0	392	0.00	Contract Milestone Payment 375 (ref only)																																															
Third 120 deg segment																																																						
VVSA-501	60 deg segment	30SEP05A	28OCT05	21*	496	165,000.00																																																
VVSA-511	60 deg segment	31OCT05*	04NOV05	5*	496	165,000.00																																																
VVSA-521	Join two pieces	07NOV05*	18NOV05	10*	496	45,000.00	48=\$375k																																															
121-145	S005243 #10-Third VVSA fabricated		18NOV05	0	496	0.00	Contract Milestone Payment\$350 (ref only)																																															
VVSA-531	Machine for Ports	21NOV05*	07DEC05	13*	496	95,000.00																																																
VVSA-541	Weld Ports	05JAN06*	27JAN06	17*	476	75,000.00																																																
VVSA-551	Final Machine	27FEB06*	10MAR06	10*	476	50,000.00																																																
VVSA-561	Vacuum Test	30JAN06*	08FEB06	8*	476	60,000.00																																																
VVSA-571	Cut Off Ports	09FEB06*	24FEB06	12*	476	50,000.00																																																
VVSA-581	Inspect & Pack for Shipping LI#4	13MAR06*	14MAR06	2*	476	23,000.00																																																
VVSA-591	Receive at PPPL	16MAR06	21MAR06*	4	475	22,000.00																																																
121-160	S005243 #13-Receipt/Acceptance of 3rd VVSA		21MAR06*	0	475	0.00	Contract Milestone Payment\$375 (ref only)																																															
121-038.1	All Vacuum Vessel Sections (3) Delivered		21MAR06	0	475	0.00	***** VACUUM VESSEL SECTORS DELIVERED LEVEL 2 DOE MILESTONE PEP DATE = SEPTEMBER 2006 *****																																															
Ship Tooling																																																						
VVSA-601	Pack Tooling for PPPL	15MAR06	21MAR06	5	908	0.00																																																
VVSA-611	PPPL Receive Tooling	22MAR06	27MAR06	4	908	486,000.00	48=\$486k																																															
121-165	S005243 #14-Delivefy of tooling,dies,fixtures		27MAR06*	0	908	0.00	Contract Milestone Payment\$486 (ref only)																																															
121-031	VVSA Title III engr	21MAY04A	28FEB05A	631		27,753.79																																																
121-034	VVSA Title III engr	01MAR05A	30SEP05A	152*		20,460.00	ORNL35 =132hr ;																																															
121-034.1	VVSA Title III engr	03OCT05*	22NOV06	288*	727	92,715.05	ORNL35 =500hr ; ORNL35 =08\$;																																															
121-032	VVSA Contract oversight FY04	21MAY04A	30SEP04A	386*		20,052.50																																																
121-033	VVSA Contract oversight FY05	01OCT04A	28FEB05A	290*		75,267.38																																																

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121-035	VVSA Contract oversight FY05 & FY06	01MAR05A	31JAN06	231*	936	255,723.95	Viola 85%=1304hrs 35=\$24k																											
121-035.1	ORNL fesign support during MTM Contract	01MAR05A	30SEP05A	152*		17,360.00	ORNL35 =112hr ;																											
121-035.2	ORNL design support during MTM Contract	03OCT05*	31JAN06	79*	936	22,118.90	ORNL35 =107hr ; ORNL35 =04\$;																											
121-036	Ship vac equipt from PPPL to MTM for vac testing	25OCT05	14NOV05	15	391	2,742.00	m&s=\$2k																											
121-037	Purchase seals and ship to MTM	25APR05A	29JUL05A	70*		42,447.20																												
121-038	assist MTM testing of VVSA	15NOV05	08FEB06	54*	468	0.00	provost=160hrs etc only																											
121-039	Design Seal Template	01MAR05A	31MAR05A	20		2,480.00																												
121-141	Fabricate Seal Template and ship to MTM	01MAR05A	31MAR05A	65		4,240.11																												
FY05CV-4	FY05 unrecoverable cost variance	01OCT04A	30SEP05A	251		-49,000.00																												
13 - Conventional Coils																																		
Job: 1301 - TF Design-KALISH																																		
+ Preliminary Design																																		
		01OCT03A	28FEB05A	355		471,974.00																												
+ Final Design																																		
		01FEB05A	30SEP05A	172		164,053.52																												
+ Prior Costs																																		
		01APR03A	30SEP04A	378		163,695.13																												
Final Design Closeout																																		
1301FD-05	Anaylsis Check	01MAR05A	01NOV05	174*	993	26,618.23	Dahlgren=160																											
1301R-37	Prepare Coil Spec	01MAR05A	01NOV05	174*	367	0.00																												
1301FD-84	TF Coil Fabrication & assy package approved	02NOV05	08NOV05	5	366	0.00																												
FY05CV-5	FY05 unrecoverable cost variance	01OCT04A	30SEP05A	251		120,000.00																												
Job: 1350 TF Coil Fab Preparation-CHRZANOWSKI																																		
1350-100	Design tooling & winding facility	01MAR05A	31AUG05A	152*		96,961.10	designer =576 ; chrzanowski =230hr ;																											
1350-605	Install winding table	01JUN05A	30JUN05A	50*		24,655.80																												
1350-100.1	Design tooling & winding facility	01SEP05A	31OCT05	43*	372	49,050.02	designer =360 ; chrzanowski =58hr ;																											
1350-500	Recondition turnngn fixture	21MAR05A	30JUN05A	88*		33,232.20																												
1350-505	Winding Clamps	02MAY05A	01NOV05	130*	382	21,251.86	EM/TB =80hr ; EM/SM =80hr ; 41=05\$k ;																											
1350-600	Build Cleanroom	28MAR05A	14OCT05	143*	394	44,291.53	EM/TB =220hr ; EM/SM =148hr ; 41=05\$k ; ee/tb=80																											
1350-510	Taping Machine Conditioning	16DEC05*	22DEC05	5	347	31,220.60	EM/TB =160hr ; EM/SM =80hr ; EE//TB =80hr ; 41=01\$k ;																											
1350-515	Winding mandrel	01JUL05A	23DEC05	93*	346	30,930.60	EM/TB =160hr ; EM/SM =120hr ; 41=05\$k ;																											
1350-520	Misc tools & equipt	08SEP05A	15DEC05	69*	352	45,605.41	41=03\$k ; machinist=144; em/tb=300																											
1350-610	Setup copper delivery system	01NOV05*	21NOV05	15	368	11,240.32	EM/TB =58hr ; EM/SM =38hr ; 41=01\$k ;																											

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1350-615	Install taping machine	01NOV05*	21NOV05	15	368	11,240.32	EM/TB =58hr ; EM/SM =38hr ; 41=01\$k ;																																																					
1351-089	Fab Lift Fixture	19DEC05	23DEC05	5	346	11,727.36	em//tb=144																																																					
1350-620	Complete setup of facility		23DEC05*	0	346	0.00																																																						
1350-525	TF mold (2)	01NOV05*	11JAN06	44	372	123,390.00	41=\$90 (for 2) 41=10\$k ;																																																					
1351-080	Design Assy Fixture	03JAN06*	30JAN06	20	510	32,432.40	designer=120+ 160																																																					
1351-086	Fab/Assemble Fixture	31JAN06	24FEB06	19	510	43,708.00	em//tb=200; M&S=20k																																																					
1351-088	Setup Wedge Casting Fixture & test	27FEB06	03MAR06	5	510	19,545.60	em//tb=240																																																					
FY05CV-7	FY05 unrecoverable cost variance	01OCT04A	30SEP05A	251		135,000.00																																																						
Job: 1351 - TF Coil Fabr Supplies-KALISH																																																												
TF Materials & Supplies																																																												
1301FD-72	TF Conductor Procurement Package approved	31MAY05A	31MAY05A	5		0.00																																																						
1301FD-74	Prepare & issue TF Conductor RFP	31MAY05A	03JUN05A	23*		0.00																																																						
1301FD-76	Evaluate bids and award TF conductor	06JUN05A	30JUN05A	0*		0.00																																																						
1301FD-77	Award TF conductor		30JUN05A	0		0.00																																																						
1351-529	Coil Supplies- Deliver Copper Conductor(PE005935)	01JUL05A	14OCT05	75*	334	133,864.50	m&s=\$104.5k (for 20 coils)																																																					
1301FD-78	TF Wedge Plate procurement package approved	29JUL05A	29JUL05A	5		0.00																																																						
1301FD-80	Prepare and Issue TF Wedge Plate RFP	12AUG05A	18AUG05A	5		0.00																																																						
1301FD-82	Evaluate and award TF Wedge Plate Fabr (R403108)	02DEC05*	06FEB06	41	426	0.00																																																						
1351-85C	Award TF Castings		06FEB06	0	429	0.00																																																						
1351-85D	Vendor Fab TF Castings	07FEB06	27JUN06	100	429	271,458.00	M&S=198k																																																					
1351-525	Coil Supplies- Insulation	03OCT05	11JAN06	65	372	109,680.00	m&s=\$80k																																																					
1351-527	Coil Supplies- Epoxy	28APR06	07NOV07	388*	212	82,407.22	m&s=\$60k etc only																																																					
1351-531	Coil Supplies- G-11 fillers (PE006162)	03OCT05	13MAR06	108*	296	89,115.00	41=\$65																																																					
1351-533	Coil Supplies- Lead Blocks(pe6134 for copper)	03SEP05A	13MAR06	128*	296	53,322.27	machinist=100;em//tb=110;m&s=\$20k																																																					
1351-535	Coil Supplies- Safety & PPE equipt & supplies	03OCT05	13FEB06	88	316	10,968.00	m&s=\$8k																																																					
1351-537	Coil Supplies- Misc supplies	03OCT05	13FEB06	88	316	10,968.00	m&s=\$8k																																																					
1351-539	Coil Supplies- Primer**NOT REQD**)	03OCT05	03OCT05	1	403	0.00																																																						
1351-541	VPI Supplies- Misc VPI supplies	12JAN06	15MAY06	88	296	10,968.00	m&s=\$8k																																																					
1351-543	VPI Supplies- Disposable VPI HW	08DEC05	15MAY06	107	296	83,167.08	em//tb=432; m&s=\$35k																																																					
FY05CV-8	FY05 unrecoverable cost variance	01OCT04A	30SEP05A	251		14,000.00																																																						
Job: 1361 - TF Fabrication-CHRZANOWSKI																																																												
TF Title III and Fabrication Oversight																																																												
131-001	Wedge Casting Specification Revision	01NOV05*	02DEC05	22*	967	0.00																																																						
131-002	Wedge casting analysis revision	01NOV05*	02DEC05	22*	967	0.00																																																						
131-003	Addendum to TF coil specification for QC rqmnts	01NOV05*	02DEC05	22*	967	0.00																																																						

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06				FY07				FY08				FY09															
							S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	S	O	N	D	J	F	M	A
1351-659	GW & Apply Mold Coil #6	25JAN07	02FEB07	7	251	2,912.70																												
1351-661	GW & Apply Mold Coil #7	15FEB07	23FEB07	7	246	2,912.70																												
1351-663	GW & Apply Mold Coil #8	08MAR07	16MAR07	7	238	2,912.70																												
1351-665	GW & Apply Mold Coil #9	29MAR07	06APR07	7	233	2,912.70																												
1351-667	GW & Apply Mold Coil #10	19APR07	27APR07	7	225	2,912.70																												
1351-669	GW & Apply Mold Coil #11	10MAY07	18MAY07	7	220	2,912.70																												
1351-671	GW & Apply Mold Coil #12	01JUN07	11JUN07	7	212	2,912.70																												
1351-673	GW & Apply Mold Coil #13	22JUN07	02JUL07	7	246	2,912.70																												
1351-675	GW & Apply Mold Coil #14	13JUL07	23JUL07	7	238	2,912.70																												
1351-677	GW & Apply Mold Coil #15	03AUG07	13AUG07	7	233	2,912.70																												
1351-679	GW & Apply Mold Coil #16	24AUG07	03SEP07	7	225	2,912.70																												
1351-681	GW & Apply Mold Coil #17	14SEP07	24SEP07	7	220	2,912.70																												
1351-683	GW & Apply Mold Coil #18	05OCT07	15OCT07	7	212	2,991.10																												
VPI																																		
1351-751	VPI Coil #1	16MAY06	02JUN06	13	296	25,409.28																								em/tb=312				
1351-752	VPI Coil #2	01NOV06	17NOV06	13	281	19,473.48																												
1351-755	VPI Coil #3 & #4	15DEC06	16JAN07	17	264	14,563.50																												
1351-759	VPI Coil #5 & #6	05FEB07	27FEB07	17	251	14,563.50																												
1351-763	VPI Coil #7 & #8	19MAR07	10APR07	17	238	6,241.50																												
1351-767	VPI Coil #9 & #10	30APR07	22MAY07	17	225	6,241.50																												
1351-771	VPI Coil #11 & #12	12JUN07	04JUL07	17	212	6,241.50																												
1351-775	VPI Coil #13 & #14	24JUL07	15AUG07	17	238	6,241.50																												
1351-779	VPI Coil #15 & #16	04SEP07	26SEP07	17	225	6,241.50																												
1351-783	VPI Coil #17 & #18	16OCT07	07NOV07	17	212	6,409.50																												
Electrical Test (warm before casting instl)																																		
1351-848	Prep & setup for warm test	05MAY06	02JUN06	20	438	10,256.00																								meighan=80 hrs				
1351-849	Warm Test Coil #1	05JUN06	06JUN06	2	438	1,303.04																												
1351-851	Warm Test Coil #2	20NOV06	21NOV06	2	331	832.20																												
1351-853	Warm Test Coil #3	17JAN07	18JAN07	2	300	832.20																												
1351-855	Warm Test Coil #4	19JAN07	22JAN07	2	307	832.20																												
1351-857	Warm Test Coil #5	28FEB07	01MAR07	2	282	665.76																												
1351-859	Warm Test Coil #6	02MAR07	05MAR07	2	283	665.76																												
1351-861	Warm Test Coil #7	11APR07	12APR07	2	259	665.76																												
1351-863	Warm Test Coil #8	13APR07	16APR07	2	260	665.76																												
1351-865	Warm Test Coil #9	23MAY07	24MAY07	2	235	499.32																												
1351-867	Warm Test Coil #10	25MAY07	29MAY07	2	237	499.32																												

**NCSX
Master Schedule
ECP-43**

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06				FY07				FY08				FY09																
							S	O	N	D	J	F	M	A	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F
Job: 1302 - PF and CS Design -KALISH																																			
TF I&C																																			
133-008	Design WBS 134 Conv Coil I&C Peer review		30SEP05	0	1,010	0.00																													
133-010	Design WBS 134 Conv Coil I&C	01MAR05A	03JAN06	210*	657	13,418.02	Kalish =80 ;																												
133-011	Design WBS 134 Conv Coil I&C FDR		03JAN06*	0	951	0.00																													
133-012	Specification for PF coils	01NOV05*	02DEC05	22*	967	0.00																													
1302-PF	PF& CS Support Preliminary Design	01JUN05A	22DEC06	145*	167	79,032.67	kal;ish=220; rushinski=132; dahlgren=112																												
141-012	PF & CS Sprt PDR		22DEC06	0	167	0.00																													
1302-CSS	PF & CS Support Final Design	02JAN07	16APR07	75	167	157,228.24	kalish=220; rushinski=468; dahlgren=196																												
1301-137	PF & CS Support FDR		16APR07	0	167	0.00																													
FY05CV-6	FY05 unrecoverable cost variance	01OCT04A	30SEP05A	251		-22,000.00																													
Job: 1352 - PF Coil Procurement-KALISH																																			
PF Coil Fabrication																																			
141-035	Bid & Award PF Coils	27AUG07*	29OCT07	45	124	0.00																													
141-036	PF Coils Awarded		29OCT07	0	124	0.00	***** AWARD PRODUCTION CONTRACT FOR PF COILS LEVEL 2 DOE MILESTONE PEP DATE = MARCH 2008 *****																												
1352-100	Material & leads	30OCT07	21FEB08	75	124	264,140.00	41=188																												
1352-110	Tooling for PF 4	30OCT07*	05DEC07	25	159	73,762.50	41=52.5																												
1352-115	Tooling for PF 5	06DEC07	17JAN08	25	159	73,762.50	41=52.5																												
1352-120	Tooling for PF 6	18JAN08	21FEB08	25	174	73,762.50	41=52.5																												
1352-105	Tooling for PF 1,2 and 3 NOT REQ'D USE PF1a	22FEB08	03APR08	30	174	0.00																													
1352-140	Fabricate/Dlvr PF 4 lower	22FEB08	06MAR08	10	124	55,848.75	41=39.75																												
1352-145	Fabricate/Dlvr PF 5 lower	07MAR08	27MAR08	15	124	41,817.00	4e=39.75																												
1352-150	Fabricate/Dlvr PF 6 lower	28MAR08	17APR08	15	124	41,817.00	4e=39.75																												
1352-155	Fabricate/Dlvr PF 4 upper	18APR08	01MAY08	10	124	41,817.00	4e=39.75																												
1352-160	Fabricate/Dlvr PF 5 upper	02MAY08	22MAY08	15	124	41,817.00	4e=39.75																												
1352-165	Fabricate/Dlvr PF 6 upper	23MAY08	13JUN08	15	124	41,817.00	4e=39.75																												
1352-125	Fabricate/Dlvr PF 1 NOT REQD USE PF1a	16JUN08	07JUL08	15	124	0.00																													
1352-130	Fabricate/Dlvr PF 2 NOT REQD USE PF1a	08JUL08	28JUL08	15	124	0.00																													
1352-135	Fabricate/Dlvr PF 3 NOT REQD USE PF1a	29JUL08	18AUG08	15	124	0.00																													
1352-135X	Refurbish NSTX PF1a	02OCT06*	06OCT06	5	589	1,331.52	em/tb=16																												
722.010	PF Coil receipt inspect/test (formerly wbs 183)	22FEB08	18AUG08	125*	124	31,275.16	em//sm=94; em/tb=218																												
141-031	Title III engr WBS 132	27AUG07*	19SEP08	268	268	112,977.05	Kalish=551;ea//dm=69;																												

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06				FY07				FY08				FY09				
							S	O	N	D	J	F	M	A	J	J	A	S	O	N	D	J	F
Job: 1353 - CS Structure Procurement-KALISH																							
CS Support Structure																							
163-035	Bid & Award CS Support Struct	17APR07	19JUN07	45	167	0.00																	
163-036.9	Award CS Support Structure		19JUN07*	0	167	0.00																	
163-037	CS Support Structure Procurement/Fab	20JUN07*	17JUN08	249	167	205,571.79	41=\$144.77; 35=\$2 k																
163-015	Title III design CS sprt struc	17APR07	17JUN08	294	334	60,193.11	Kalish=250;Rushinski=83																
Job: 1354 - Trim Coil Procurement-KALISH																							
Trim Coils																							
1303-TRIM	Trim Coil Design	02OCT06*	10JAN07	65	224	42,330.68	kalish=220;rushinski=180;dahlgren=180																
1303-136	Trim Coil PDR		10NOV06	0	224	0.00																	
1303-137	Trim Coil FDR		10JAN07	0	224	0.00																	
184-035	Bid & Award Ext Trim Coils	11JAN07	14MAR07	45	224	0.00																	
184-036	Award External Trim Coils		14MAR07*	0	224	0.00																	
184-037	External Trim Coil Procurement/Fab*ecp16	15MAR07	17JUL07	87	224	34,275.00	41=210-148=\$62kecp16																
184-015	Title III WBS 133 Rxt Trim Coils	11JAN07	07AUG07	147	549	26,834.06	Rushinski=64;Kalish=232;;35=\$4k																
Job: 1355 - WBS 13 I&C Proc & Coil Assy-KALISH																							
TF/PF Loacl I&C																							
133-015	Title III WBS 134 Conv Coil I&C	09OCT06*	18APR07	130	626	1,141.72	Kalish=2;Rushinski=6																
133-037	Conv Coil I&C WBS 134 Proc & Install	02OCT06*	11APR07	130	467	69,587.22	41=9.2\$k;em//sm=123;em//tb=491																
1355-100	CS and PF 1a Pre-Assy incl coil I&C procurement	19AUG08	09SEP08	15	124	20,510.40	em//tb=240																
14 - Modular Coils																							
+ Job: 1401 - Mod Coil Prel.Dsn**CLOSED**																							
		29APR04A	30SEP05A	359		15,639.37																	
+ Job: 1402 - Mod.Coil Analyses**CLOSED**																							
		01APR03A	30SEP05A	636		239,140.00																	
+ Job:1404-MCWF R&D & 1st Prod Casting**CLOSED**																							
		01APR03A	30SEP05A	636		2,543,518.06																	
+ Job: 1413 -MCWF Fracture Analysis-**CLOSED**																							
		01JUN04A	30SEP04A	86		5,782.20																	
+ Job: 1405-Mod Coil Winding R&D Prep-**CLOSED**																							
		01OCT03A	30SEP05A	507		744,133.94																	
+ Job: 1407 -Mod Coil Winding Facility-**CLOSED**																							
		01APR03A	30SEP05A	636		2,545,993.12																	
+ Job: 1412 - Complete Winding Facilities-*CLOSED*																							
		20SEP04A	10JUN05A	185		655,640.00																	
+ Job: 1406 - Mod. Coil Winding R&D-**CLOSED**																							
		01APR03A	30SEP05A	636		2,246,588.41																	
+ Job: 1410 MC Twisted Racetrack Fabr-**CLOSED**																							
		01OCT04A	30SEP05A	251		1,050,211.32																	

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06				FY07				FY08				FY09																				
							S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M
1403-50A	Check inductance calculation	03OCT05	31OCT05	21*	994	6,748.00																																	
1403-200	Side A/B winding pack assy-Type C	01JAN04A	14OCT05	452*	1,005	35,037.04																																	
1403-224C	Finish VPI mold assembly-Type C	01MAR05A	14OCT05	162*	1,005	3,116.91																																	
1403-208C	Finish I&C Dwgs -Type C	01MAR05A	14OCT05	162*	1,005	6,233.83																																	
1403-206.1	Cooling tubes/services assy- Type C	25APR05A	14OCT05	123*	1,005	9,366.83																																	
1403-206C	Finish Cooling, Electr Schematic Dwgs - Type C	01MAR05A	14OCT05	162*	1,005	6,233.83																																	
1403-58C	Check and promote clamp, I&C assy dwgs -Type C	01JUN05A	14OCT05	97*	1,005	15,641.24																																	
1403-60C	Finish Update design basis document	02MAY05A	14OCT05	118*	1,005	12,492.88																																	
1403-59	Type-C product specifications	02MAY05A	14OCT05	118*	179	6,246.44																																	
1403-203C	Finish Clamp Dwgs (5)-Type C	01MAR05A	14OCT05	162*	398	15,584.57																																	
1403-506	Chill plate dwgs approved for fabrication	03OCT05	03OCT05	1	163	0.00																																	
1403-510	Clamp and assy dwgs approved for fabrication	17OCT05	17OCT05	1	398	0.00																																	
1403-20.2	Resolve FDR chits	01AUG05A	17OCT05	56*	1,004	6,211.91																																	
1403-70.05	Update MIT/QA Plans for Type C Winding Fab	01SEP05A	21OCT05	36*	995	6,428.33																																	
1403-20.0	Final Design Close-out for Type C		31OCT05*	0	994	0.00																																	

Job: 1416-Mod Coil Type A&B Final Dsn-WILLIAMSON

Winding and Assembly Design-Type A

1416A-105	-Subasm Shrinkwrap	15DEC05*	21DEC05	5	238	6,748.00																															
1416A-109	-Check and Promote	22DEC05	05JAN06	5	238	3,374.00																															
1416A-113	MCWF mods-As-Built MCWF	01AUG05A	07OCT05	50*	289	12,509.60																															
1416A-117	MCWF mods-Studs, Lead Block Mount	10OCT05*	14OCT05	5	284	6,748.00																															
1416A-121	MCWF mods-Seal Groove Adapter	17OCT05*	21OCT05	5	279	6,748.00																															
1416A-125	MCWF mods-Metrology Data Files	24OCT05*	26OCT05	3	276	3,374.00																															
1416A-129	MCWF mods-Check and Promote	27OCT05	02NOV05	5	276	3,374.00																															
1416A-133	Lead Block Assy-Lead Blocks	03OCT05*	28OCT05	20	237	13,496.00																															
1416A-137	Lead Block Assy-Top and Side Plates	24OCT05*	18NOV05	20	222	13,496.00																															
1416A-141	Lead Block Assy-Detail Parts, Intralink	21NOV05*	23NOV05	3	219	6,748.00																															
1416A-145	Lead Block Assy-Filament Data Files	23NOV05*	01DEC05	5	215	3,374.00																															
1416A-149	Lead Block Assy-Check and Promote	02DEC05	08DEC05	5	215	3,374.00																															
1416A-153	Lead Terminals-Splice Plates	25OCT05*	27OCT05	3	238	3,374.00																															
1416A-157	Lead Terminals-Check and Promote	28OCT05	03NOV05	5	238	3,374.00																															
1416A-161	Side A Coil Assy-Cladding Asm	01SEP05A	28OCT05	42*	241	37,150.48																															
1416A-165	Side A Coil Assy-Cond Layers, Geom Files	31OCT05*	04NOV05	5	264	6,748.00																															
1416A-169	Side A Coil Assy-Magnetic Loops	10NOV05*	14NOV05	3	258	3,374.00																															
1416A-173	Side A Coil Assy-Chill Plates and Tubing	31OCT05*	13DEC05	30	239	40,488.00																															
1416A-177	Side A Coil Assy-Check and Promote	14DEC05	04JAN06	10	239	6,748.00																															

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06				FY07				FY08				FY09												
							S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
+ Groundwrap Insulation																															
		01APR03A	30SEP05A	636		1,770,181.86																									
Cladding																															
1408-501	Submet Requisition for Type C Cladding	03OCT05	03OCT05	1	213	0.00																									
1408-503	Bid and Award Type C Cladding	04OCT05	31OCT05	20	213	0.00																									
1408-505	PPPL Fabr Cladding Type C for Coil c1	01MAY05A	31MAY05A	15		3,586.65																									
1408-507	PPPL Fabr Cladding Type C for Coil c2	01NOV05	21NOV05	15	979	3,838.80					41=\$2.8k																				
1408-509	Fabr Cladding Type C for Coil c3	01NOV05	21NOV05	15	213	3,838.80					41=\$2.8k																				
1408-511	Fabr Cladding Type C for Coil c4	22NOV05	14DEC05	15	213	3,838.80					41=\$2.8k																				
1408-513	Fabr Cladding Type C for Coil c5	15DEC05	12JAN06	15	213	3,838.80					41=\$2.8k																				
1408-515	Fabr Cladding Type C for Coil c6	13JAN06	02FEB06	15	516	3,838.80					41=\$2.8k																				
1408-517	Submet Requisition for Type A Cladding	31OCT05	04NOV05	5	241	0.00																									
1408-519	Bid and Award Type A Cladding	07NOV05	20DEC05	30	241	0.00					41=\$2.8k																				
1408-521	Fabr Cladding Type A for Coil a1	21DEC05	18JAN06	15	241	3,838.80					41=\$2.8k																				
1408-523	Fabr Cladding Type A for Coil a2	19JAN06	08FEB06	15	241	3,838.80					41=\$2.8k																				
1408-525	Fabr Cladding Type A for Coil a3	09FEB06	01MAR06	15	261	3,838.80					41=\$2.8k																				
1408-527	Fabr Cladding Type A for Coil a4	02MAR06	22MAR06	15	293	3,838.80					41=\$2.8k																				
1408-529	Fabr Cladding Type A for Coil a5	23MAR06	12APR06	15	417	3,838.80					41=\$2.8k																				
1408-531	Fabr Cladding Type A for Coil a6	13APR06	03MAY06	15	417	3,838.80					41=\$2.8k																				
1408-533	Submet Requisition for Type B Cladding	09FEB06	15FEB06	5	238	0.00																									
1408-535	Bid and Award Type B Cladding	16FEB06	29MAR06	30	238	0.00					41=\$2.8k																				
1408-537	Fabr Cladding Type B for Coil b1	30MAR06	19APR06	15	238	3,838.80					41=\$2.8k																				
1408-539	Fabr Cladding Type B for Coil b2	20APR06	10MAY06	15	270	3,838.80					41=\$2.8k																				
1408-541	Fabr Cladding Type B for Coil b3	11MAY06	01JUN06	15	288	3,838.80					41=\$2.8k																				
1408-543	Fabr Cladding Type B for Coil b4	02JUN06	22JUN06	15	288	3,838.80					41=\$2.8k																				
1408-545	Fabr Cladding Type B for Coil b5	23JUN06	14JUL06	15	306	3,838.80					41=\$2.8k																				
1408-547	Fabr Cladding Type B for Coil b6	17JUL06	04AUG06	15	306	3,838.80					41=\$2.8k																				
Lead hardware & Fillers																															
1408-705	Fabr Lead HW Type C for Coil c1	01JUL05A	10NOV05	94*	986	92,137.12					41=70\$;																				
1408-707	Fabr Lead HW Type C for Coil c2	01JUL05A	15NOV05	97*	196	24,509.92					41=19\$;																				
1408-701	Submet Requisition for Type C3-C6 Lead HW	01AUG05A	05AUG05A	5		0.00																									
1408-703	Bid and Award Type C3-C6 Lead HW	08AUG05A	31AUG05A	30		0.00																									
1408-709	Fabr Lead HW Type C for Coil c3	03OCT05	01DEC05	42*	201	26,186.10					M&S = \$19.1k																				
1408-711	Fabr Lead HW Type C for Coil c4	02DEC05	06JAN06	20	208	26,186.10					M&S = \$19.1k																				
1408-713	Fabr Lead HW Type C for Coil c5	09JAN06	03FEB06	20	208	26,186.10					M&S = \$19.1k																				
1408-715	Fabr Lead HW Type C for Coil c6	06FEB06	03MAR06	20	506	26,186.10					M&S = \$19.1k																				

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06				FY07				FY08				FY09																			
							S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A
1408-717	Submet Requisition for Type A Lead HW	09DEC05	15DEC05	5	215	0.00																																
1408-719	Bid and Award Type A Lead HW	16DEC05	03FEB06	30	215	0.00																																
1408-721	Fabr Lead HW Type A for Coil a1	06FEB06	03MAR06	20	215	26,186.10																																
1408-723	Fabr Lead HW Type A for Coil a2	06MAR06	31MAR06	20	215	26,186.10																																
1408-725	Fabr Lead HW Type A for Coil a3	03APR06	28APR06	20	230	26,186.10																																
1408-727	Fabr Lead HW Type A for Coil a4	01MAY06	26MAY06	20	249	26,186.10																																
1408-729	Fabr Lead HW Type A for Coil a5	30MAY06	26JUN06	20	249	26,186.10																																
1408-731	Fabr Lead HW Type A for Coil a6	27JUN06	25JUL06	20	371	26,186.10																																
1408-733	Submet Requisition for Type B Lead HW	24FEB06	02MAR06	5	233	0.00																																
1408-735	Bid and Award Type B Lead HW	03MAR06	13APR06	30	233	0.00																																
1408-737	Fabr Lead HW Type B for Coil b1	14APR06	11MAY06	20	233	26,186.10																																
1408-739	Fabr Lead HW Type B for Coil b2	12MAY06	09JUN06	20	268	26,186.10																																
1408-741	Fabr Lead HW Type B for Coil b3	12JUN06	10JUL06	20	268	26,186.10																																
1408-743	Fabr Lead HW Type B for Coil b4	11JUL06	07AUG06	20	268	26,186.10																																
1408-745	Fabr Lead HW Type B for Coil b5	08AUG06	04SEP06	20	276	26,186.10																																
1408-747	Fabr Lead HW Type B for Coil b6	05SEP06	02OCT06	20	276	26,186.10																																
Chill Plates																																						
1408-601	Submet Requisition for Type C Chill Plts	04OCT05	10OCT05	5	163	0.00																																
1408-603	Bid and Award Type C Chill Plts	11OCT05	21NOV05	30	163	0.00																																
1408-605	Fabr Chill Plts Type C for Coil c1	22NOV05	21DEC05	20	163	3,838.80																																
1408-607	Fabr Chill Plts Type C for Coil c2	22DEC05	26JAN06	20	182	3,838.80																																
1408-609	Fabr Chill Plts Type C for Coil c3	27JAN06	23FEB06	20	182	3,838.80																																
1408-611	Fabr Chill Plts Type C for Coil c4	24FEB06	23MAR06	20	189	3,838.80																																
1408-613	Fabr Chill Plts Type C for Coil c5	24MAR06	20APR06	20	189	3,838.80																																
1408-615	Fabr Chill Plts Type C for Coil c6	21APR06	18MAY06	20	487	3,838.80																																
1408-617	Submet Requisition for Type A Chill Plts	14DEC05	20DEC05	5	247	0.00																																
1408-619	Bid and Award Type A Chill Plts	21DEC05	08FEB06	30	247	0.00																																
1408-621	Fabr Chill Plts Type A for Coil a1	09FEB06	08MAR06	20	247	3,838.80																																
1408-623	Fabr Chill Plts Type A for Coil a2	09MAR06	05APR06	20	247	3,838.80																																
1408-625	Fabr Chill Plts Type A for Coil a3	06APR06	03MAY06	20	262	3,838.80																																
1408-627	Fabr Chill Plts Type A for Coil a4	04MAY06	01JUN06	20	282	3,838.80																																
1408-629	Fabr Chill Plts Type A for Coil a5	02JUN06	29JUN06	20	282	3,838.80																																
1408-631	Fabr Chill Plts Type A for Coil a6	30JUN06	28JUL06	20	403	3,838.80																																
1408-633	Submet Requisition for Type B Chill Plts	11APR06	17APR06	5	236	0.00																																
1408-635	Bid and Award Type B Chill Plts	18APR06	30MAY06	30	236	0.00																																
1408-637	Fabr Chill Plts Type B for Coil b1	31MAY06	27JUN06	20	236	3,838.80																																

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06			FY07			FY08			FY09		
							S	O	N	S	O	N	S	O	N	S	O	N
1408-639	Fabr Chill Plts Type B for Coil b2	28JUN06	26JUL06	20	272	3,838.80												
1408-641	Fabr Chill Plts Type B for Coil b3	27JUL06	23AUG06	20	272	3,838.80												
1408-643	Fabr Chill Plts Type B for Coil b4	24AUG06	20SEP06	20	272	3,838.80												
1408-645	Fabr Chill Plts Type B for Coil b5	21SEP06	18OCT06	20	278	3,838.80												
1408-647	Fabr Chill Plts Type B for Coil b6	19OCT06	15NOV06	20	278	3,838.80												
Tubing																		
1408-761	Submet Requisition for Tubing	17OCT05	21OCT05	5	179	0.00												
1408-763	Bid and Award Tubing	24OCT05	11NOV05	15	179	0.00												
1408-765	Deliver Tubing	14NOV05	29NOV05	10	179	2,742.00												
Epoxy																		
1408-111	Epoxy - Requisition	01JAN05A	31JAN05A	5		0.00												
1408-114	Epoxy -Evaluate Bids & Award	01MAY05A	31MAY05A	10		0.00												
1408-117	Epoxy -1st Delivery for Production	03FEB06	02MAR06	20	341	20,565.00												
1408-119	Epoxy -2nd Delivery for Production	07APR06*	04MAY06	20	316	20,565.00												
1408-121	Epoxy -3rd Delivery for Production	15NOV06	14DEC06	20	180	20,565.00												
1408-123	Epoxy -4th Delivery for Production	31JAN07	27FEB07	20	157	20,565.00												
1408-125	Epoxy -5th Delivery for Production	13MAR07	09APR07	20	148	20,565.00												
1408-127	Epoxy -6th Delivery for Production	10APR07	07MAY07	20	148	20,565.00												
Clamps																		
1408-901	Submet Requisition for Type C Clamps	18OCT05	24OCT05	5	398	0.00												
1408-903	Bid and Award Type C Clamps	25OCT05	21DEC05	40	398	0.00												
1408-905	Fabr Clamps Type C for Coil c1	22DEC05	09FEB06	30	398	20,565.00												
1408-907	Fabr Clamps Type C for Coil c2	10FEB06	23MAR06	30	398	20,565.00												
1408-909	Fabr Clamps Type C for Coil c3	24MAR06	04MAY06	30	398	20,565.00												
1408-911	Fabr Clamps Type C for Coil c4	05MAY06	16JUN06	30	398	20,565.00												
1408-913	Fabr Clamps Type C for Coil c5	19JUN06	31JUL06	30	432	20,565.00												
1408-915	Fabr Clamps Type C for Coil c6	02OCT07	12NOV07	30	136	21,075.00												
1408-917	Submet Requisition for Type A Clamps	26OCT05	01NOV05	5	356	0.00												
1408-919	Bid and Award Type A Clamps	02NOV05	06JAN06	40	356	0.00												
1408-921	Fabr Clamps Type A for Coil a1	09JAN06	17FEB06	30	356	20,565.00												
1408-923	Fabr Clamps Type A for Coil a2	20FEB06	31MAR06	30	356	20,565.00												
1408-925	Fabr Clamps Type A for Coil a3	03APR06	12MAY06	30	356	20,565.00												
1408-927	Fabr Clamps Type A for Coil a4	15MAY06	26JUN06	30	356	20,565.00												
1408-929	Fabr Clamps Type A for Coil a5	27JUN06	08AUG06	30	390	20,565.00												
1408-931	Fabr Clamps Type A for Coil a6	09AUG06	19SEP06	30	390	20,565.00												
1408-933	Submet Requisition for Type B Clamps	27JAN06	02FEB06	5	317	0.00												

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06				FY07				FY08				FY09																							
							S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
MCWF-091	C2-MTM - machining/inspection	28JUN05A	16DEC05	120*	152	169,040.00																																				
MCWF-101	C2-Receive at PPPL		19DEC05	0	152	0.00																																				
MCWF-141	C3-MTK-casting	12MAY05A	19SEP05A	102*		142,710.00																																				
MCWF-151	C3-MTM - machining/inspection	20SEP05A	03MAR06	111*	129	167,910.00																																				
MCWF-161	C3-Receive at PPPL		03MAR06	0	129	43,030.00																																				
MCWF-201	C4-MTK-casting	16MAY05A	31OCT05	118*	175	142,710.00																																				
MCWF-211	C4-MTM - machining/inspection	16DEC05*	31MAR06	70*	144	167,910.00																																				
MCWF-221	C4-Receive at PPPL		31MAR06	0	144	31,190.00																																				
MCWF-261	C5-MTK-casting	30MAY05A	28NOV05	126*	169	142,710.00																																				
MCWF-271	C5-MTM - machining/inspection	27JAN06*	04MAY06	70*	132	167,910.00																																				
MCWF-281	C5-Receive at PPPL		04MAY06	0	132	34,480.00																																				
MCWF-111	A1-MTK-casting	22APR05A	08SEP05A	116*		142,710.00																																				
MCWF-121	A1-MTM - machining/inspection	09SEP05A	08JUN06	116*	143	167,910.00																																				
MCWF-131	A1-Receive at PPPL		08JUN06	0	143	29,880.00																																				
MCWF-171	A2-MTK-casting	17AUG05A	30DEC05	98*	201	142,710.00																																				
MCWF-181	A2-MTM - machining/inspection	05APR06*	13JUL06	70*	131	167,910.00																																				
MCWF-191	A2-Receive at PPPL		13JUL06	0	131	25,270.00																																				
MCWF-351	A3-MTK-casting	26SEP05A	31JAN06	84*	211	142,710.00																																				
MCWF-361	A3-MTM - machining/inspection	09MAY06*	16AUG06	70*	142	167,910.00																																				
MCWF-371	A3-Receive at PPPL		16AUG06	0	142	20,410.00																																				
MCWF-231	B1-MTK-casting	16SEP05A	28FEB06	110*	202	142,710.00																																				
MCWF-241	B1-MTM - machining/inspection	12JUN06*	20SEP06	71*	130	167,910.00																																				
MCWF-251	B1-Receive at PPPL		20SEP06	0	130	14,660.00																																				
MCWF-381	A4-MTK-casting	20DEC05*	08MAR06	51*	232	142,710.00																																				
MCWF-391	A4-MTM - machining/inspection	18JUL06*	24OCT06	70*	141	167,910.00																																				
MCWF-401	A4-Receive at PPPL		24OCT06	0	141	9,730.00																																				
MCWF-321	B2-MTK-casting	17FEB06*	17APR06	42*	216	142,710.00																																				
MCWF-331	B2-MTM - machining/inspection	21AUG06*	29NOV06	70*	129	167,910.00																																				
MCWF-341	B2-Receive at PPPL		29NOV06	0	129	159,450.00																																				
MCWF-471	B3-MTK-casting	07MAR06*	28APR06	39*	242	142,710.00																																				
MCWF-481	B3-MTM - machining/inspection	26SEP06*	11JAN07	70*	139	167,910.00																																				

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06				FY07				FY08				FY09												
							S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
P3-001	Receive A2, Prep& Instl Cladding	14JUL06	28JUL06	11	131	24,350.56																									
P3-031	Receive A3, Prep& Instl Cladding	17AUG06	31AUG06	11	142	24,350.56																									
P1-031	Receive B1, Prep& Instl Cladding	21SEP06	05OCT06	11	130	24,683.42																									
P3-121	Receive A4, Prep& Instl Cladding	25OCT06	08NOV06	11	141	24,882.78																									
P2-121	Receive B2, Prep& Instl Cladding	30NOV06	14DEC06	11	129	24,882.78																									
P2-061	Receive B3, Prep& Instl Cladding	12JAN07	26JAN07	11	139	24,882.78																									
P2-151	Receive B4, Prep& Instl Cladding	15FEB07	01MAR07	11	127	24,882.78																									
P3-061	Receive B5, Prep& Instl Cladding	21MAR07	04APR07	11	138	24,882.78																									
P3-151	Receive B6, Prep& Instl Cladding	24APR07	08MAY07	11	126	24,882.78																									
P1-061	Receive A5, Prep& Instl Cladding	29MAY07	12JUN07	11	137	24,882.78																									
P1-151	Receive A6, Prep& Instl Cladding	02JUL07	17JUL07	11	125	24,882.78																									
P2-031	Receive C6, Prep& Instl Cladding	06AUG07	20AUG07	11	136	24,882.78																									
Station 2-Winding, Instl Chill Plates,Tubing,Bag																															
P1-011	Wind coil C1>>@150%	25OCT05*	27JAN06	61*	142	118,006.56																									
P1-011J	Complete Winding First Modular Coil		27JAN06	0	142	0.00																									
P1-020	Instl Chill Plates,Tubing, Bag C1>>@150%	31JAN06*	02MAR06	23*	141	41,371.52																									
P2-101	Wind coil C-3	21MAR06	08MAY06	35	129	116,377.76																									
P2-110	Instl Chill Plates,Tubing,Bag C3	09MAY06	24MAY06	12	129	41,371.52																									
P1-131	Wind coil C5	25MAY06	14JUL06	35	129	99,031.04																									
P1-140	Instl Chl Plates,Tubing, Bag C5	17JUL06	01AUG06	12	129	34,856.32																									
P3-011	Wind coil A2	02AUG06	20SEP06	35	129	99,031.04																									
P3-020	Instl Chill Plates,Tubing, Bag A2	21SEP06	06OCT06	12	129	35,173.75																									
P1-041	Wind coil B1	09OCT06	28NOV06	35	129	101,195.52																									
P1-050	Instl Chl Plates,Tubing, Bag B1	29NOV06	14DEC06	12	129	35,618.16																									
P1-071	Wind coil B2	15DEC06	09FEB07	35	129	101,195.52																									
P1-080	Instl Chl Plates,Tubing,Bag B2	12FEB07	27FEB07	12	129	35,618.16																									
P2-041JOUL	JOULE FY07 Cmplt winding one-half modular coils		28NOV06	0	129	0.00																									
P2-161	Wind coil B4	02MAR07	19APR07	35	127	101,195.52																									
P2-170	Instl Chill Plates,Tubing,Bag B4	20APR07	07MAY07	12	127	35,618.16																									
P3-161	Wind coil B6	09MAY07	27JUN07	35	126	101,195.52																									
P3-170	Instl Chill Plates,Tubing,Bag B6	28JUN07	16JUL07	12	126	35,618.16																									
P1-161	Wind coil A6	18JUL07	05SEP07	35	125	101,195.52																									
P1-170	Instl Chill Plates,Tubing,Bag A6	06SEP07	21SEP07	12	125	35,618.16																									

**NCSX
Master Schedule
ECP-43**

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06				FY07				FY08				FY09			
							S	O	N	D	S	O	N	D	S	O	N	D	S	O	N	D
174-037	Modular Coil local I&C -Install (from wbs 143)	31JAN06	11JUN07	344*	139	69,713.28	em/sm=172; em/tb=576															
SSD-ST2	Second shift cost differential	25OCT05	21SEP07	480*	124	32,000.00	[Gantt bar]															
Station 3-Winding, Instl Chill Plates,Tubing,Bag																						
P1-101	Wind coil C-2>>@125%	27JAN06*	15MAR06	34*	152	116,377.76	EM//TB = 1429 hrs															
P1-110	Instl Chill Plates,Tubing,Bag C2>>@125%	16MAR06	05APR06	15	152	41,371.52	EM//TB = 508 hrs															
P3-101	Wind coil C4	18APR06	06JUN06	35	144	99,031.04	EM//TB = 1,216 hrs															
P3-110	Instl Chill Plates,Tubing, Bag C4	07JUN06	22JUN06	12	144	34,856.32	EM//TB = 428 hrs															
P2-011	Wind coil A1	26JUN06	14AUG06	35	143	99,031.04	EM//TB = 1,216 hrs															
P2-020	Instl Chill Plates,Tubing, Bag A1	15AUG06	30AUG06	12	143	34,856.32	EM//TB = 428 hrs															
P3-041	Wind coil A3	01SEP06	20OCT06	35	142	99,958.67	EM//TB = 1,216 hrs															
P3-050	Instl Chl Plates,Tubing, Bag A3	23OCT06	07NOV06	12	142	35,618.16	EM//TB = 428 hrs															
P3-131	Wind coil A4	09NOV06	08JAN07	35	141	101,195.52	EM//TB = 1,216 hrs															
P3-140	Instl Chl Plates,Tubing, Bag A4	09JAN07	24JAN07	12	141	35,618.16	EM//TB = 428 hrs															
P2-071	Wind coil B3	29JAN07	16MAR07	35	139	101,195.52	EM//TB =1216 hrs															
P2-080	Instl Chill Plates,Tubing,Bag B3	19MAR07	03APR07	12	139	35,618.16	EM//TB = 428hrs															
P3-071	Wind coil B5	05APR07	23MAY07	35	138	101,195.52	EM//TB = 1216 hrs															
P3-080	Instl Chill Plates,Tubing,Bag B5	24MAY07	11JUN07	12	138	35,618.16	EM//TB = 428hrs															
P2-131	Wind coil A5	13JUN07	01AUG07	35	137	101,195.52	EM//TB = 1,216 hrs															
P2-140	Instl Chl Plates,Tubing, Bag A5	02AUG07	17AUG07	12	137	35,618.16	EM//TB = 428 hrs															
P2-041	Wind coil C6	21AUG07	09OCT07	35	136	101,740.29	EM//TB = 1216 hrs															
P2-050	Instl Chl Plates,Tubing, Bag C6	10OCT07	25OCT07	12	136	36,576.88	EM//TB = 428hrs															
SSD-ST3	Second shift cost differential	27JAN06	25OCT07	444*	135	32,000.00	[Gantt bar]															
Station 5-VPI																						
P1-021V	VPI (Station 5) C1	03MAR06	20MAR06	12	385	26,712.32	EM//TB = 328 hrs															
P1-111V	VPI (Station 5) C2	06APR06	21APR06	12	401	26,712.32	EM//TB = 328 hrs															
P2-111V	VPI (Station 5) C3	25MAY06	12JUN06	12	400	26,712.32	EM//TB = 328 hrs															
P3-111V	VPI (Station 5) C4	23JUN06	11JUL06	12	380	26,712.32	EM//TB = 328 hrs															
P1-141V	VPI (Station 5) C5	02AUG06	17AUG06	12	446	26,712.32	EM//TB = 328 hrs															
P2-021V	VPI (Station 5) A1	31AUG06	18SEP06	12	251	26,712.32	EM//TB = 328 hrs															
P3-021V	VPI (Station 5) A2	09OCT06	24OCT06	12	232	27,296.16	EM//TB = 328 hrs															
P3-051V	VPI (Station 5) A3	08NOV06	27NOV06	12	247	27,296.16	EM//TB = 328 hrs															
P1-051V	VPI (Station 5) B1	15DEC06	09JAN07	12	178	27,296.16	EM//TB = 328 hrs															
P3-141V	VPI (Station 5) A4	25JAN07	09FEB07	12	199	27,296.16	EM//TB = 328 hrs															
P2-141V	VPI (Station 5) B2	28FEB07	15MAR07	12	158	27,296.16	EM//TB = 328 hrs															
P2-081V	VPI (Station 5) B3	04APR07	19APR07	12	170	23,218.38	EM//TB = 328 hrs															
P3-081V	VPI (Station 5) B4	08MAY07	23MAY07	12	146	23,218.38	EM//TB = 328hrs															

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06				FY07				FY08				FY09																			
							S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	S	O	N	D	J	F	M	A				
P2-171V	VPI (Station 5) B5	12JUN07	27JUN07	12	217	23,218.38																																
P3-171V	VPI (Station 5) B6	17JUL07	01AUG07	12	193	23,218.38																																
P1-081V	VPI (Station 5) A5	20AUG07	05SEP07	12	149	27,296.16																																
P1-171V	VPI (Station 5) A6	24SEP07	09OCT07	12	125	23,582.94																																
P2-051V	VPI (Station 5) C6	26OCT07	12NOV07	12	136	23,843.34																																
Station 1B Final Clamp Installation																																						
P1-021C	Final Clamps & Warm Test (Station1) C1	21MAR06	31MAR06*	9	385	12,378.88																																
P1-021.1	Complete First Mod Coil Fabrication C1		31MAR06	0	385	0.00																																
											<p>EM/TB = 152 hrs</p> <p>.....</p> <p>COMPLETE FIRST MODULAR COIL FABRICATION DOE LEVEL 2 MILESTONE PEP DATE = MARCH 2006</p>																											
P1-111C	Final Clamps & Warm Test (Station1) C2	24APR06	04MAY06	9	401	12,378.88																																
P2-111C	Final Clamps & Warm Test (Station1) C3	13JUN06	23JUN06	9	400	12,378.88																																
P3-111C	Final Clamps & Warm Test (Station1) C4	12JUL06	24JUL06	9	380	9,772.80																																
P1-141C	Final Clamps & Warm Test (Station1) C5	18AUG06	30AUG06	9	446	9,772.80																																
P2-021C	Final Clamps & Warm Test (Station1) A1	19SEP06	29SEP06	9	251	9,772.80																																
P3-021C	Final Clamps & Warm Test (Station1) A2	25OCT06	06NOV06	9	232	9,986.40																																
P3-051C	Final Clamps & Warm Test (Station1) A3	28NOV06	08DEC06	9	247	9,986.40																																
P1-051C	Final Clamps & Warm Test (Station1) B1	10JAN07	22JAN07	9	178	9,986.40																																
P3-141C	Final Clamps & Warm Test (Station1) A4	12FEB07	22FEB07	9	199	9,986.40																																
P2-141C	Final Clamps & Warm Test (Station1) B2	16MAR07	28MAR07	9	158	9,986.40																																
P2-081C	Final Clamps & Warm Test (Station1) B3	20APR07	02MAY07	9	170	9,986.40																																
P3-081C	Final Clamps & Warm Test (Station1) B4	24MAY07	06JUN07	9	146	9,986.40																																
P3-171C	Final Clamps & Warm Test (Station1) B5	28JUN07	11JUL07	9	217	9,986.40																																
P2-171C	Final Clamps & Warm Test (Station1) B6	02AUG07	14AUG07	9	193	9,986.40																																
P1-081C	Final Clamps & Warm Test (Station1) A5	06SEP07	18SEP07	9	149	9,986.40																																
P1-171C	Final Clamps & Warm Test (Station1) A6	10OCT07	22OCT07	9	125	10,255.20																																
P2-051C	Final Clamps & Warm Test (Station1) C6	13NOV07	23NOV07	9	136	10,255.20																																
LOE Oversight & Supervision																																						
171-000	Winding Preparations (LOE) FY05	01AUG05A	30SEP05A	49*		53,382.29																																
171-040	Winding Oversight (LOE)	10OCT05	19OCT07*	508	161	656,802.64																																
171-041	Tech Supervision	10OCT05	19OCT07*	508	161	307,723.60																																
TITLE3W	Titel III Design ORNL- Component Fab & WINDING	03OCT05*	25OCT07	517*	493	196,084.05																																
											<p>EA//EM Chrzanowski @ 70%=2672</p> <p>EA//EM Raftopolous @40%=1356</p> <p>EM//SM (Meighan) @ 70%=2371</p> <p>WILLIAMSON=908 (20%)</p> <p>ornl travel=\$24k</p>																											
FY05CV-25	FY05 unrecoverable cost variance	01OCT04A	30SEP05A	251		81,000.00																																

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06				FY07				FY08				FY09												
							S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
Job: 1414 Coil Testing-Gettelfinger																															
Twisted Racetrack Hardware Fabrication																															
1409-141	Modify Cryostat for TRC	01APR05A	31AUG05A	107*		11,923.20	em//tb=160																								
1406-020	Begin Testing of Twisted RT in Coil test Stand	31AUG05A		0		0.00																									
1406-021	Test Coil	10AUG05A	30SEP05A	37*		30,844.24	em//tb=128; ee//tb=56; Hatcher=40; Gettelfinger=40; Gernhardt=40																								
1406-023	Hi-pot & Dissect Coil	03OCT05*	31OCT05	21*	989	26,060.80	kearns=40,house=40 em//tb=240																								
Production Modular Coils																															
1409-130	Production Cryostat Design	26SEP05A	31OCT05	26*	960	6,839.71	Gettelfinger =40																								
1409-135	Production Cryostat Fabr & Install	03JAN06*	01FEB06	22	923	35,291.60	41=\$10k; em//tb=265																								
1409-136	Valve/pump repairs&safety mods to cryo pp sys	03JAN06*	31JAN06	21	924	23,871.20	41=3;em//tb=200;em//em=20																								
1409-199	Closed Loop Facility Available for Production MC		01FEB06	0	923	0.00																									
P1-021	Test Coil (Coil Test Stand) C1	03APR06	11APR06	7	881	30,321.24	EM/TB=176,EE/TB=72,EE/SM=20,EE/EM=16,EM/EM=28,																								
P2-021	Test Coil (Coil Test Stand) A1	02OCT06	10OCT06	7	251	23,237.70	EM/TB=176,EE/TB=72,EE/SM=20,EE/EM=16,EM/EM=28,																								
P1-051	Test Coil (Coil Test Stand) B1	23JAN07	31JAN07	7	178	18,967.19	EM/TB=176,EE/TB=72,EE/SM=20,EE/EM=16,EM/EM=28,																								
FY05CV-19	FY05 unrecoverable cost variance	01OCT04A	30SEP05A	251		88,000.00																									
Job: 1421-Mod Coil Interface Hardware-WILLIAMSON																															
Coil-to-coil Interface Design																															
1403-11.1	Compl assembly / interface drawings for ICDs	01NOV04A	31OCT05	251*	994	31,229.25	Hargrove,Lovett=80 williamson=40																								
1403-16	Assembly bolts, nuts,washers	01OCT04A	30JUN06	437*	214	14,153.14	ornl=80+8 hrs																								
1403-17	Assembly shims	01OCT04A	30JUN06	437*	214	20,586.38	ornl=80+48=128																								
1403-18	Eccentric ball assembly	08NOV04A	30JUN06	411*	829	27,081.60	ornl=80+88=168																								
1403-19	Top assembly dwgs for mod coil shell	01OCT04A	30JUN06	437*	829	30,879.58	ornl=120+72=192																								
1403-19A	Bladder Details	01JUL05A	30JUN06	251*	214	22,460.70	ornl=80+56=136																								
1403-20	3 coil assembly specification	01AUG06*	25SEP06	40	264	26,992.00	ornl=160																								
1421-100	Submet Requisition for - Assy bolts,nuts,washers	24JUL06*	04AUG06	10	200	2,699.20	williamson=16 hrs																								
1421-105	Procurement lead time for-Assy bolts,nuts,washer	07AUG06	29SEP06	40	200	0.00																									
1421-110	Deliver - Assy bolts,nuts,washers	02OCT06	03JAN07	60	200	449,000.00	m&s=\$449k																								
1421-200	Submet Requisition for - Assembly shims	24JUL06*	04AUG06	10	200	2,699.20	williamson=16 hrs																								
1421-205	Procurement lead time for - Assembly shims	07AUG06	29SEP06	40	200	0.00																									
1421-210	Deliver - Assembly shims	02OCT06	03JAN07	60	200	138,000.00	m&s=\$138k																								
1421-400	Submet Requisition for - Bladders	24JUL06*	04AUG06	10	200	2,699.20	williamson=16 hrs																								
1421-405	Procurement lead time for - Bladders	07AUG06	29SEP06	40	200	0.00																									
1421-410	Deliver - Bladders	02OCT06	03JAN07	60	200	60,000.00	m&s=\$60k																								

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06				FY07				FY08				FY09												
							S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
15 - Structures																															
Job: 1501 - Structures Design- Kalish																															
PDR/PBR Task List																															
1501-105	Project PDR	07OCT03A	07OCT03A	1		0.00																									
1501-109	Prepare FY 04 WP/WAF	31OCT03A	31OCT03A	20		12,360.00																									
1501-113	Prepare PBR documentation	04NOV03A	18NOV03A	10		6,180.00																									
1501-117	Performance baseline review		18NOV03A	0		0.00																									
Reqmnts, Configuration, Interfaces and PDR																															
1501-125	Update drawings & models based on vendor	21OCT03A	26NOV03A	30		10,660.50																									
1501-133	Prepare a "scope sheet" which defines all interf	03NOV03A	30SEP04A	124		5,407.50																									
1501-FY05	Prelim Design Structures	01JUL05A	03APR06	110*	244	85,922.42																									
1501-PDR	Structures PDR		03APR06	0	244	0.00																									
1501-FD	Final Design Structures	04APR06	30JUN06	63*	244	88,596.54																									
1501-FDR	Structures FDR		30JUN06	0	244	0.00																									
FY05CV-26	FY05 unrecoverable cost variance	01OCT04A	30SEP05A	251		-1,000.00																									
Job: 1550 - Structures Procurement -KALISH																															
1501-245	Prep Spec, Solicit Bids, and Evaluate Bids	03JUL06	02OCT06	65	244	0.00																									
162-036.9	Award Coil Support Assy		02OCT06*	0	242	0.00																									
162-037	WBS 151Coil Support Assy Procurement [A/1]	03OCT06	01OCT07	249	242	1,013,788.47																									
162-031	Title III engr WBS 151	03OCT06	01OCT07	249	511	153,878.32																									
153.037	WBS 153 Support Structure I&C Procurement/Fab	03OCT06*	01OCT07	249	511	9,022.42																									
153.015	Title III design WBS 153 local&C	03OCT06*	01OCT07	249	511	1,048.11																									
16 - Coil Services																															
Job: 1601 - Coil Services Design-WILLIAMSON																															
161 - LN2 Distribution																															
191-001	Title I design WBS 161 LN2 manifolds&piping	02OCT06*	10JAN07	65	306	57,375.70																									
191-011	Title II design WBS 161 LN2 manifolds&piping	11JAN07	04APR07	60	306	114,923.30																									
191-031	Title III engr WBS 161	05APR07	15MAY08	280	356	16,567.82																									
191-037	Procurement WBS 161	05APR07	08OCT07	130	306	72,677.54																									
191-038	PDR#17	09OCT07*	15FEB08	86	420	62,325.80																									
191-041	LN2 Manifolds & ppg Fab/assy/instl WBS 161	09OCT07*	14JAN08	62	306	33,821.56																									
191-042	PDR #17,25,3	09OCT07*	17JAN08	65	441	10,785.36																									
162 - Electrical Leads																															
132-000	PDR #17 & 25	02OCT06	24JAN08	325	436	41,396.19																									
132-001	Title I design WBS 162 Coil leads	02OCT06*	11APR07	130	303	153,159.10																									
132-011	Title II design WBS 162 Coil leads	12APR07	15OCT07	130	303	153,686.42																									

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06			FY07			FY08			FY09		
							S	O	N	S	O	N	S	O	N	S	O	N
181.201	D-Site Shift Supervisor LOE FY04	01JUL04A	30SEP04A	64*		25,920.40												
181.210	HP Coverage in the TFTR TC LOE FY05	01OCT04A	30SEP05A	249*		136,539.00												
181.222	HP Coverage in the TFTR TC LOE FY06	03OCT05*	02OCT06	250*	760	147,328.84												
181.220	HP Coverage in the TFTR TC LOE FY07	02OCT06*	01OCT07	250*	511	150,543.22												
181.221	HP Coverage in the TFTR TC LOE FY08	01OCT07*	30SEP08	251*	261	154,583.00												
181.100	PPPL EM LOE FY04	13OCT03A	30SEP04A	242*		77,518.74												
181.110	PPPL EM LOE FY05	01OCT04A	30SEP05A	249*		9,625.20												
181.120	PPPL EM LOE FY06	01DEC05*	02OCT06	209*	760	204,416.14												
181.2A	Procedure for VV prep	03OCT05*	21OCT05	15	435	0.00												
181.2B	Procedure for MC HP subassy	01AUG06*	21AUG06	15	286	0.00												
181.2C	Procedure for MC instl on VV	01SEP06*	22SEP06	15	320	0.00												
181.2D	Procedure for TF HP sub assy	02OCT06*	20OCT06	15	358	0.00												
181.2E	Procedure for Final FP assy	02JAN07*	22JAN07	15	304	0.00												
181.121	PPPL EM LOE FY07	02OCT06*	28SEP07	249*	512	260,099.10												
181.122	PPPL EM LOE FY08	01OCT07*	30JUN08	187*	325	200,288.00												
FY05CV-28	FY05 unrecoverable cost variance	01OCT04A	30SEP05A	251		57,000.00												
Job: 1803- FP Assy Toolg/Constructability-BROWN																		
1.00-VV Prep Station																		
1803-1.01	Concept definition and requirements	01FEB05A	28FEB05A	10		16,056.00												
1803-1.02	VV Support Fixture - model design& drawing detai	01FEB05A	31MAY05A	73		13,604.00												
1803-1.04	Metrology -sightline layout metrology support	13APR05A	31MAY05A	18		25,502.00												
1803-1.05	Structural / Seismic Analysis check	01FEB05A	31MAY05A	86*		13,220.00												
1803-1.06	Design review PDR VV Prep Station	01AUG05A	10AUG05A	0*		1,983.00												
1803-1.09	Safety Review documentation / presentation	02SEP05A	15SEP05A	10		2,644.00												
1803-1.061	Design review FDR VV Prep Station	16SEP05A	19SEP05A	2		1,983.00												
1803-1.07	Design check and sign-off	20SEP05A	07OCT05	14*	405	3,551.65												
1803-1.10	Fab / Design Review - follow-up activities	20SEP05A	07OCT05	14*	426	6,980.91												
1803-1.08	Prep & Issue dwgs,and requisition	10OCT05*	07NOV05	21*	405	0.00												
1803-1.12	PPPL FAB - VV support Fixture (1)	08NOV05	05DEC05	20	422	23,307.00												
2.00-Half Period Assembly																		
1803-2.01	Concept definition and requirements	03JAN05A	28FEB05A	52*		16,056.00												
1803-2.02	MC Holding Fixture - model design and drawing	01FEB05A	29APR05A	79*		21,728.00												
1803-2.04	Metrology - sightline layout design details metr	01AUG05A	30SEP05A	77*		15,209.60												
1803-2.05	Structural / Seismic Analysis check	24OCT05*	21NOV05	21*	342	13,924.80												
1803-2.06	PDR Half Period Assy	07DEC05*	07DEC05	1	336	0.00												
1803-2.061	FDR Half Period Assy	22NOV05	04JAN06	24*	342	0.00												

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06				FY07				FY08				FY09													
							S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O
1803-3.08B	Recieve & Evaluate Bids	27APR06	01JUN06	25	336	0.00																										
1803-3.15D	Award Fabrication Contract		02OCT06*	0	250	0.00																										
1803-3.15C	Fab Crane Support & Laser screens	03OCT06*	11JAN07	65	250	31,258.80																										
4.00-TF HP Assembly																																
1803-4.01	Concept definition and requirements	01MAR05A	28MAR05A	5		10,704.00																										
1803-4.03	TF HP support turning fixture - model design d	01APR05A	30JUN05A	15		14,265.00																										
1803-5.002	TF Rotation Fixture plus dwgs start	02MAY05A	30SEP05A	129*		32,592.00																										
1803-4.06	TF Rotation Fixture plus dwgs complete	23JAN06*	10FEB06	15*	431	0.00																										
1803-4.06A	Metrology layout	13FEB06*	24FEB06	10*	450	0.00																										
1803-4.07	Structural / Seismic Analysis check	13FEB06*	24MAR06	30*	431	13,924.80																										
1803-4.08	PDR Final FP Assy	28FEB06	28FEB06*	1	449	0.00																										
1803-4.081	FDR Final FP Assy	11APR06	11APR06*	1	420	0.00																										
1803-4.10A	Prep & Issue Spec,dwgs,and req-pltfrm&sprts	09OCT06*	20OCT06	10	294	0.00																										
1803-4.13	FAB-TF Support Stands (1)	23OCT06	31JAN07	65	294	13,230.15																										
5.00-Final FP Assembly																																
1803-4.02	MC Support Stand - model design and drawing deta	01APR05A	31MAY05A	89*		14,265.00																										
1803-5.001	Concept definition and requirements	02MAY05A	31MAY05A	10		10,704.00																										
1803-4.04	FP Assembly platform - model design drawing det	01AUG05A	30SEP05A	65*		21,397.50																										
1803-5.003	MC support stand	06MAR06*	07APR06	25*	353	0.00																										
1803-5.004	Structural Analysis	17MAY06*	26MAY06	8*	346	13,924.80																										
1803-5.005	PDR	30MAY06	05JUN06*	5	346	0.00																										
1803-5.006	FDR	05JUL06	11JUL06*	5	326	0.00																										
1803-5.007	Pre & Issue Specs and Dwgs	12JUL06	18JUL06	5	326	0.00																										
1803-5.008	Procurement Lead Time	19JUL06	12SEP06	40	326	0.00																										
1803-5.009	Fabricate	02OCT06*	10JAN07	65	313	52,714.95																										
1803-5.100	FP Assy Platform	10APR06*	05MAY06	20*	353	0.00																										
1803-5.200	Metrology layout/support stand dwgs	08MAY06*	12MAY06	5*	356	0.00																										
6.00-Interface/Test Activities																																
1803-5.01	Finalize TFTR test cell FPA assembly layout draw	01JUN05A	29JUL05A	42*		9,066.40																										
1803-5.03	Design MC assy test components	01JUN05A	30JUN05A	25*		32,112.00																										
1803-5.04	Fab - Test Articles	01JUL05A	30SEP05A	65*		19,215.00																										
1803-5.02A	Generate as built spherical seat dwg	04NOV05*	15NOV05	8*	478	0.00																										
1803-5.05	Run test/metrology measurements	01NOV05*	08DEC05	26*	968	0.00																										
1803-5.02	TFTR Test Cell FPA arrgmt dwg	05JUN06*	23JUN06	15*	834	0.00																										
7.00-Oversight																																
1803-7.01	Meetings Prep and Reporting	01NOV04A	30SEP05A	230*		114,037.05																										

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06				FY07				FY08				FY09												
							S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
S1P1-102	Mount VV on VV Prep fixture (top side up)	07JUN06	07JUN06	1	288	977.28																									
S1P1-103	Establish metrology setting; align VV base	08JUN06	13JUN06	4	288	5,863.68																									
S1P1-103.1	Layout diagnostic&coolant paths on vsl w/templt	14JUN06	18JUL06	24	288	38,684.00																									
S1P1-107	Wind magnetic diagnostic sensors	19JUL06	15AUG06	20	288	77,368.00																									
S1P1-107.1	Loop termination & verification	16AUG06	14SEP06	22	288	13,030.40																									
S1P1-106	Attach studs for coolant lines	15SEP06	02OCT06	12	288	15,664.96																									
S1P1-108	Install cooling/htg lines to vac vsl	03OCT06	03NOV06	24	288	47,934.72																									
S1P1-116	Prepare and transfer completed VV to holding are	06NOV06	08NOV06	3	288	5,991.84																									
Stage 1 VV Prep (instl diag & insul)FP#2																															
S1P2-101	Receive VV and inspect	31JUL06*	03AUG06	4	277	7,818.24																									
S1P2-102	Mount VV on VV Prep fixture (top side up)	04AUG06	04AUG06	1	277	977.28																									
S1P2-103	Establish metrology setting; align VV base	07AUG06	10AUG06	4	277	5,863.68																									
S1P2-103.1	Layout diagnostic&coolant paths on vessel	11AUG06	14SEP06	25	277	19,545.60																									
S1P2-107	Wind magnetic diagnostic sensors	15SEP06	12OCT06	20	277	9,786.68																									
S1P2-107.1	Loop termination & verification	13OCT06	13NOV06	22	277	13,315.20																									
S1P2-106	Attach studs for coolant lines	14NOV06	01DEC06	12	277	15,978.24																									
S1P2-108	Install cooling/htg lines to vac vsl	04DEC06	12JAN07	24	277	47,934.72																									
S1P2-116	Prepare and transfer completed VV to holding are	15JAN07	17JAN07	3	277	5,991.84																									
Stage 1 VV Prep (instl diag & insul)FP#3																															
S1P3-101	Receive VV and inspect	29SEP06*	04OCT06	4	327	7,946.40																									
S1P3-102	Mount VV on VV Prep fixture (top side up)	09NOV06	09NOV06	1	302	998.64																									
S1P3-103	Establish metrology setting; align VV base	10NOV06	15NOV06	4	302	5,991.84																									
S1P3-103.1	Layout diagnostic&coolant paths on vessel	16NOV06	22DEC06	25	302	19,972.80																									
S1P3-107	Wind magnetic diagnostic sensors	02JAN07	29JAN07	20	302	9,819.96																									
S1P3-107.1	Loop termination & verification	30JAN07	28FEB07	22	302	13,315.20																									
S1P3-106	Attach studs for coolant lines	01MAR07	16MAR07	12	302	15,978.24																									
S1P3-108	Install cooling/htg lines to vac vsl	19MAR07	19APR07	24	302	47,934.72																									
S1P3-116	Prepare and transfer completed VV to holding are	20APR07	24APR07	3	302	5,991.84																									
Spool pieces (3) (spacers)																															
S1SP-101	Attachdiagnostics, studs and coolant lines	02JAN07	14FEB07	32	480	31,956.48																									
Stage 2 MC HP Sub-assembly (bolt 3 MC together)																															
S2P1-100	Assemble /Align A1/A2, B1/B2	01MAR07	25APR07	40	160	73,233.60																									
S2P1-200	Assemble/Align C1/C2	26APR07	23MAY07	20	160	73,233.60																									
S2P2-100	Assemble /Align A3/A4, B3/B4	09MAY07	28JUN07	36	148	73,233.60																									
S2P2-200	Assemble /Align C3/C4	29JUN07	24JUL07	18	148	73,233.60																									
S2P3-100	Assemble /Align A5/A6, B5/B6	23OCT07	13DEC07	36	124	75,204.80																									
S2P3-200	Assemble /Align C5/C6	14DEC07	17JAN08	18	124	75,204.80																									

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06			FY07			FY08			FY09		
							S	O	N	S	O	N	S	O	N	S	O	N
Stage 4 - Final FP Assy (Instl ports & TF's)FP#2																		
S4P2-101	Mount MC/VV assembly to support frame a	31AUG07	03SEP07	2	148	3,994.56												EM//TB =48hr ;
S4P2-102	Position and weld all ports to VV	04SEP07	15OCT07	30	148	80,679.68												EM//TB =960hr ;
S4P2-103	Inspect Welds	16OCT07	22OCT07	5	148	6,836.80												EM//TB =80hr ;
S4P2-104	Assemble left TF Coil Assembly check position	23OCT07	25OCT07	3	148	8,204.16												EM//TB =96hr ;
S4P2-105	Change platforms	26OCT07	29OCT07	2	148	4,102.08												EM//TB =48hr ;
S4P2-106	Assemble right TF Coil Assembly chk position	30OCT07	01NOV07	3	148	8,204.16												EM//TB =96hr ;
S4P2-107	Attach TF coils to MC's	02NOV07	06NOV07	3	148	6,153.12												EM//TB =72hr ;
S4P2-108	Change platforms	07NOV07	08NOV07	2	149	5,469.44												EM//TB =64hr ;
S4P2-109	Position, weld two large horizontal diag ports	09NOV07	20NOV07	8	149	16,408.32												EM//TB =192hr ;
S4P2-110	Inspect Welds	21NOV07	21NOV07	1	149	1,367.36												EM//TB =16hr ;
S4P2-111	Assemble external trim coils to TF Coil	02NOV07	22NOV07	15	148	20,510.40												EM//TB =240hr ;
S4P2-112	Close up VV, leak check	23NOV07	10DEC07	10	148	54,694.40												EM//TB =640hr ;
S4P2-113	Adjust final support base interfaces	11DEC07	02JAN08	10	148	4,102.08												EM//TB =48hr ;
S4P2-113.5	Final metrology outside & inside	03JAN08	16JAN08	10	148	0.00												
S4P2-114	Prepare Field Period for shipment	17JAN08	18JAN08	2	148	4,102.08												EM//TB =48hr ;
S4P2-115	Transfer completed assy to C-site test cell	21JAN08	22JAN08	2	148	6,836.80												EM//TB =80hr ;
Stage 4 - Final FP Assy (Instl ports & TF's)FP#3																		
S4P3-101	Mount MC/VV assembly to support frame a	26FEB08	27FEB08	2	124	4,102.08												EM//TB =48hr ;
S4P3-102	Position and weld all ports to VV*2 shift*	28FEB08	09APR08	30	124	82,041.60												EM//TB =960hr ;
S4P3-103	Inspect Welds	10APR08	14APR08	3	124	6,836.80												EM//TB =80hr ;
S4P3-104	Assemble left TF Coil Assembly check position	15APR08	15APR08	1	124	8,204.16												EM//TB =96hr ;
S4P3-105	Change platforms	16APR08	16APR08	1	124	4,102.08												EM//TB =48hr ;
S4P3-106	Assemble right TF Coil Assembly chk position	17APR08	18APR08	2	124	8,204.16												EM//TB =96hr ;
S4P3-107	Attach TF coils to MC's	21APR08	21APR08	1	124	6,153.12												EM//TB =72hr ;
S4P3-108	Change platforms	22APR08	22APR08	1	125	5,469.44												EM//TB =64hr ;
S4P3-109	Position, weld two large horizontal diag ports	23APR08	28APR08	4	125	16,408.32												EM//TB =192hr ;
S4P3-110	Inspect Welds	29APR08	29APR08	1	125	1,367.36												EM//TB =16hr ;
S4P3-111	Assemble external trim coils to TF Coil	21APR08	30APR08	8	124	20,510.40												EM//TB =240hr ;
S4P3-112	Close up VV, leak check	01MAY08	07MAY08	5	124	54,694.40												EM//TB =640hr ;
S4P3-113	Adjust final support base interfaces	08MAY08	14MAY08	5	124	4,102.08												EM//TB =48hr ;
S4P3-113.5	Final metrology outside & inside	15MAY08	21MAY08	5	124	0.00												
S4P3-114	Prepare Field Period for shipment	22MAY08	22MAY08	1	124	4,102.08												EM//TB =48hr ;
S4P3-115	Transfer completed assy to C-site test cell	23MAY08	23MAY08	1	124	6,836.80												EM//TB =80hr ;

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06				FY07				FY08				FY09												
							S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
S4P3-115X	Last field period assembled		23MAY08	0	124	0.00	***** LAST FIELD PERIOD ASSEMBLED DOE LEVEL 2 MILESTONE PEP DATE = NOVEMBER 2008 *****																								
19 - Stellarator Core Management and Integration																															
Job: 1901 - Stellarator Core Mngt&Integr-NELSON																															
Prior Costs																															
1901-002	Apr-Sept MIE Costs ORNL	01APR03A	30SEP03A	248		187,090.00																									
1901-003	Apr-Sept MIE Costs PPPL	01APR03A	30SEP03A	248		67,070.00																									
1901-ECP16	ecp16	01OCT03A	30SEP04A	250*		30,000.00																									
191 - Stellarator Core Management & Oversight																															
191-4	LOE-FY04 WBS 191-4 Management Activities	01OCT03A	30SEP04A	250*		101,500.00																									
0191-5	LOE-FY05 WBS 191	01OCT04A	30SEP05A	249*		175,500.00	NELSON 1100 ;35=5 k																								
0191-6	LOE-FY06 WBS 191	03OCT05*	29SEP06	249*	514	197,774.00	NELSON 1100 ;35=5 k																								
0191-6X	LOE-FY07 WBS 191	03OCT06*	27SEP07	247	513	201,498.00	NELSON 1100 35=5 k																								
0191-7	LOE-FY08 WBS 191	03OCT07*	26SEP08	247	263	99,976.00	NELSON 488 35=5 k																								
191-8	LOE-FY089 WBS 191	03OCT08*	02APR09	130	129	51,804.00	NELSON 244 35=5 k																								
192 - Stellarator Core Integration & Analysis																															
192-4	LOE-FY05 WBS 192-4 Design Integration Activities	01OCT03A	30SEP04A	250*		234,660.11																									
192-5	LOE-FY05 WBS 192-5 VV & Coil Services Integr	01OCT03A	30SEP04A	250*		36,676.65																									
192-6	LOE-FY05 WBS 192-6 Integrated Analysis	01OCT03A	30SEP04A	271		42,333.00																									
192-6.07	Time constant calcs using SPARK	01APR04A	28MAY04A	42*		6,180.00																									
192-6.08	Indep check time constant calcs using EDDYCUFF	01MAY04A	30SEP04A	138*		10,295.20																									
192-6.09	Revised VV geometry	02FEB04A	27FEB04A	6		3,090.00																									
192-6.10	MC interf during assly, geometry, assly trajecto	02FEB04A	27FEB04A	31		32,957.60																									
192-6.11	Range of motion reqts for Assly MC fixture.	02FEB04A	27FEB04A	20		17,507.60																									
192-6.12	Final Check & Verification	01MAY04A	28MAY04A	6		3,708.00																									
192-6.2	Final Mod Coil Trajectories		27FEB04A	0		0.00																									
192-6.5	Structural Design criteria		28MAY04A	0		0.00																									
192-6.01	Document coil tolerance and trim coil requiremen	01MAR04A	29JUL05A	357*		19,284.37																									
192-6.02	Check critical coil tolerance calculations.	01APR04A	31JAN05A	207*		11,098.48																									
192-6.03	Method for determining current center	01FEB04A	30DEC04A	234*		86,626.35																									
192-6.06	Coil positions to minimize islands.	02FEB04A	28FEB05A	270		66,401.76																									
192-6.031	Demo Method for current center on TRC	18JUN05A	21OCT05	89*	1,000	70,997.65	ea//em tbd=80 ;81=36.36 strickler=80;em//sm=80																								
0192-5	LOE-FY05 WBS 192	01OCT04A	30SEP05A	249*		280,350.00	cole=1200; Jones=400 orn/m&s=\$29.95 ;35= 5 k																								

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	Gantt Chart																																																			
							FY06			FY07			FY08			FY09																																										
							S	O	N	D	J	F	M	A	M	J	J	A	S	S	O	N	D	J	F	M	A	M	J	J	A	S	S	O	N	D	J	F	M	A	M	J	J	A	S	S	O	N	D	J	F	M	A	M	J	J	A	S
0192-6	LOE-FY06 WBS 192	03OCT05*	29SEP06	249*	519	312,481.45																																																				
0192-6X	LOE-FY07 WBS 192	03OCT06*	20SEP07	242	518	158,033.60																																																				
0192-7	LOE-FY08 WBS 192	03OCT07*	19SEP08	242	268	151,531.40																																																				
0192-99	LOE-FY09	01OCT08*	31MAR09	130	131	101,860.00																																																				
FY05CV-31	FY05 unrecoverable cost variance	01OCT04A	30SEP05A	251		9,000.00																																																				
2 - Plasma Heating, Fueling & Vac Systems																																																										
21 - Fueling Systems																																																										
Job: 2101 - Fueling Systems																																																										
ECP 16 October 2004																																																										
21-10	Eng. Work Planning and Design	02JAN07*	02APR07	65	227	6,205.50																																																				
21-15	Design Gas Handling Hardware	03APR07	03JUL07	65	227	5,240.00																																																				
21-20	Design PLC Controls	03APR07	03JUL07	65	292	10,353.60																																																				
21-25	Electrical Drafting for pumping system	03APR07	03JUL07	65	292	14,203.20																																																				
21-30	Drafting	03APR07	03JUL07	65	292	9,468.80																																																				
21-35	Eng. Work Planning and Design during fab	04JUL07	02OCT07	65	292	3,548.94																																																				
21-40	Fabrication/Install Hardware	04JUL07	02OCT07	65	227	3,933.25																																																				
21-45	Fabrication/installation	03OCT07	14JAN08	65	227	23,523.50																																																				
21-55	Install PLC Controls	03OCT07	14JAN08	65	227	5,316.40																																																				
21-60	Integrated Systems Testing/Eng	03OCT07	14JAN08	65	227	3,641.60																																																				
21-65	Integrated Systems Testing/Tech Support	15JAN08	17MAR08	45	227	2,658.20																																																				
22 - Torus Vacuum Pumping Systems																																																										
Job: 2001-VPS, Gas & Cond Sys Oversight-BLANCHARD																																																										
Prior Costs																																																										
2001-001	Apr-May MIE Cost	01APR03A	30MAY03A	43*		38,000.00																																																				
2001-100	PDR Support	01JUN03A	30SEP03A	164*		25,667.20																																																				
Job: 2201 - Vacuum Pumping Systems																																																										
22-25	Eng. Work Planning and Design	01MAY07*	26JUN07	40	230	28,210.00																																																				
22-30	Design PLC based control system	27JUN07	04SEP07	50	270	41,414.40																																																				
22-35	Electrical Drafting for pumping system	27JUN07	04SEP07	50	290	24,855.60																																																				
22-40	Drafting	27JUN07	04SEP07	50	230	18,937.60																																																				
22-45	Eng. Work Planning and Design during fab	05SEP07	30OCT07	40	250	16,193.61																																																				
22-50	Perform maint. & repair of pmpg sys	05SEP07	30OCT07	40	230	10,634.88																																																				
22-55	Repair and Calibration of vac instrumentation	31OCT07	04FEB08	60	250	10,761.60																																																				

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06				FY07				FY08				FY09															
							S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
3101-141	FDR PREP- VESSEL SADDLE LOOPS	03OCT05*	28OCT05	20*	437	10,410.60	; LABIK =60hr ;																											
3101-142	FDR - VESSEL SADDLE LOOPS		28OCT05	0	437	0.00	▼																											
3101-153	Fab Installation Templates	21NOV05*	30NOV05	6*	444	2,911.02	; LABIK =2hr ; MACHINIST =20hr ;																											
3101-146	Procure remaining materials	14OCT05*	01NOV05	13*	485	12,424.40	; M&S =4\$; LABIK =40hr ;																											
3101-157	Design & fab tooling and clamps	01JUN05A	30NOV05	128*	444	12,617.04	; DIAG TECH =20hr ; LABIK =40hr ; ; MACHINIST =40hr ;																											
3101-167	Design voltage loop connections	02FEB06*	08FEB06	5	477	3,470.20	; labik=20																											
3101-169	Voltage loop connection peer review	15FEB06*	15FEB06	1	473	1,735.10	; labik=10																											
3101-165	Identify lead wires at multiple locations	15DEC05*	21MAY07	357*	607	8,437.42	; diag tech=60; labik=20																											
3101-161	SUPT LOOP INSTL 200 LOOPS), TESTING	19JUL06	29JAN07	131*	302	21,092.00	; LABIK =120hr oversight ; installation time in WBS18 job 1810																											
3101-225	Terminate saddle loops	06NOV06	24APR07	114*	302	28,729.20	; labik=40; diag tech=260																											
Modular Coil C-wound Loops																																		
3101-205	MOUNTING/LOCATING STRATEGY MC	01JAN05A	31JAN05A	20		3,208.40																												
3101-209	PROTOTYPE ON TWISTED RACETRACK	01MAR05A	31MAR05A	20		4,741.80																												
3101-213	DESIGN TERMINATION	01MAR05A	31AUG05A	130*		7,302.40	; LABIK =20hr ; MECH DESIGN =40 ;																											
3101-221	PROCURE MATERIALS	25JUL05A	29JUL05A	0*		6,410.90																												
3101-217	Peer review of lead routing	04NOV05*	07NOV05	2	183	6,940.40	; LABIK =40hr ;																											
3101-230	Install heat shrink tubing on MI cable	12DEC05*	23DEC05	10	161	12,068.40	; LABIK =40hr ; jurczynski=40																											
3101-229	SUPPORT NSTALLATION, TERMINATION, TESTING	25OCT05	23MAY07	394*	140	7,001.96	; LABIK =40hr ; oversight ; installation included in MC winding job																											
3101-231	Terminate MC co-wound loops	02JUL07	25FEB08	162*	124	11,589.70	; LABIK =20hr ;diag tech =60																											
Rogowski Coils																																		
3101-301	LAYOUT LOCATION ROWGOSKI COIL &EST COIL	01JUN05A	15DEC05	139*	471	4,885.57	; STRATTON =10hr ; LABIK =20hr ;																											
3101-305	work on coil design with vendor	05JAN06*	01MAR06	40*	915	3,470.20	; LABIK =20hr ;																											
3101-309	DESIGN COIL MOUNTING TECHNIQUE	26SEP05A	08MAR06	110*	398	3,458.30	; LABIK =20hr ;																											
3101-313	DESIGN LEAD ROUTING AND TERMINATION	09MAR06*	05APR06	20	398	3,470.20	; LABIK =20hr ;																											
3101-317	PDR PREP- ROWGOWSKI COIL	06APR06*	03MAY06	20	398	5,126.10	; STRATTON =10hr ; LABIK =20hr ;																											
3101-318	PDR - ROWGOWSKI COIL		03MAY06*	0	398	0.00	▼																											
3101-321	Specify Rogowski Coils	04MAY06*	17MAY06	10	398	3,470.20	; LABIK =20hr ;																											
3101-325	FDR PREP ROWGOSKI COIL	18MAY06*	01JUN06	10	398	3,470.20	; LABIK =20hr ;																											
3101-326	FDR - ROWGOSKI COIL		01JUN06	0	398	0.00	▼																											
3101-329	FAB ROWGOWSKI COILS (2)	02JUN06*	15JUN06	10	398	24,035.20	; M&S =15\$; LABIK =20hr ;																											
3101-337	INSTALL COILS AND TERMINATIONS	02JUL07	25FEB08	162*	124	4,448.85	; labik=20;em/tb=10																											
TF Co-wound Loops																																		
3101-401	MOUNTING/LOCATING TECHNIQUE TF	25JUL05A	31AUG05A	28*		6,275.20	; STRATTON =20hr ; LABIK =20hr ;																											
3101-405	DESIGN TERMINATION N/R	03OCT05	03OCT05	1	1,014	0.00																												
3101-409	FINALIZE LOOP LOCATION/MOUNTING	01AUG05A	31AUG05A	20		6,416.80	; LABIK =40hr ;																											

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06		FY07		FY08		FY09																		
							S	O	N	D	J	F	M	A	S	O	N	D	J	F	M	A	S	O	N	D	J	F	M	A	S
3101-417	PROCURE MATERIALS	03APR06*	12APR06	8	307	10,325.20								M&S =05\$k ; LABIK =20hr ;																	
3101-425	INSTALL TF CO-WOUND LOOPS	28APR06	15OCT07	371*	212	0.00								installation included in TF fab job																	
3101-429	INSTALL TERMINATIONS	02JUL07	25FEB08	162*	124	8,676.91								LABIK =20hr ; DIAG TECH =60hr ;																	
Modular Coil Shell Saddle Loops																															
3101-501	DETERMINE NUMEBR AND LOCATION OF LOOPS	03APR06*	23JUN06	59	773	6,623.60								STRATTON =40hr ;																	
3101-505	MOUNTING/LOCATING TECHN MC SHELL SADDLE	26JUN06*	24JUL06	20	773	6,782.00								STRATTON =20hr ; LABIK =20hr ;																	
3101-513	PDR PREP -MC SHELL SADDLE LOOPS	25JUL06*	09AUG06	12	773	5,126.10								STRATTON =10hr ; LABIK =20hr ;																	
3101-514	PDR-MC SHELL SADDLE LOOPS		09AUG06	0	773	0.00																									
3101-521	FINALIZE LOOP LOCATION/MOUNTING	10AUG06*	21AUG06	8	773	10,252.20								LABIK =40hr ;stratton=20																	
3101-525	FDR PREP - MC SHELL SADDLE LOOPS	22AUG06	05SEP06	11	773	6,940.40								LABIK =40hr ;																	
3101-526	FDR - MC SHELL SADDLE LOOPS		05SEP06	0	773	0.00																									
3101-529	PROCURE MATERIALS	06SEP06	19SEP06	10	773	10,325.20								M&S =05\$k ; LABIK =20hr ;																	
3101-533	INSTALL MC SHELL SADDLE LOOPS	01MAR07	17JAN08	221*	124	7,152.56								labik=40;																	
3101-537	INSTALL TERMINATIONS	02JUL07	18DEC07	120	166	8,644.62								LABIK =20hr ; DIAG TECH =60hr ;																	
Termination Boxes																															
3101-333	Complete termination box design & prototyping	26SEP05A		27*		9,842.60								labik=20;guttadora=60																	
3101-421	FDR of terminations incl in saddle loop FDR	02NOV05*	02NOV05	1	485	0.00																									
3101-517	Fab termination boxes (24)	15NOV05*	01FEB06	49*	477	55,597.50								labik=90;machinist=80; diag tech=365																	
3101-517A	Install termination boxes	03OCT06	24APR07	138*	302	34,156.80								labik=80;machinist=80; diag tech=240																	
FY05CV-32	FY05 unrecoverable cost variance	01OCT04A	30SEP05A	251		30,000.00																									
36 - Edge and Divertor Diagnostics																															
Job: 3601 - Edge and Divertor Diagnostics																															
361-001	Design Visible Camera sys	04SEP07	29OCT07	40	186	11,997.15								R//RM2 =28hr ; EM//EM =40hr ;																	
361-015	Fab/Assy/Installation Visible Camera	30OCT07*	08MAY08	130	186	33,584.00								R//RM2 =98hr ; EM//EM =20hr ; EM//SM =96hr ; 41=0\$k ; use existing camera																	
38 - Electron Beam (EB) Mapping																															
Job: 3801 - Electron Beam Mapping																															
380-010	Designe-Beam Probe,Fluor. Screen	12OCT07	10DEC07	40	186	46,167.80								R//RM2 =70hr ; EM//EM =120hr ; EA//DM =100hr ;																	
380-015	Fab & Install Beam probe	11DEC07*	08MAY08	102	186	160,029.00								R//RM2 =160hr ; EE//EM =60hr ; EM//EM =160hr ; EE//SM =80hr ; eml/sm=170;41=42																	
39 - Diagnostics Integration																															
Job: 3901 - Diagnostics sys integration-JOHNSON																															
Prior Costs																															
390-001	LOE Support FY03	01APR03A	30SEP03A	151*		155,450.00																									

**NCSX
Master Schedule
ECP-43**

Sheet 41 of 56

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06				FY07				FY08				FY09				
							S	O	N	D	J	F	M	A	J	J	A	S	O	N	D	J	F
442 - Kirk Key Interlocks																							
442-1-2	Kirk Keys-Dsn	02OCT06*	29NOV06	41	290	16,339.60	EA//DM =80hr ; EE//EM =40hr ;																
442-1-4	Kirk Keys-Procure	30NOV06	19JUL07	158	290	13,710.00	41=10\$;																
442-1-6	Kirk Keys-Install	20JUL07	14SEP07	40	290	44,123.84	EE//EM =16hr ; EE//SM =16hr ; EE//TB =60hr ;																
442-1-8	Kirk Keys-Commission	01OCT07	09NOV07	30	290	7,202.24	EE//EM =16hr ; EE//SM =20hr ; EE//TB =20hr ;																
443 - Real Time Control Systems																							
443-1-2	Develop Control Algorithms-Dsn	23APR07*	09NOV07	142	274	13,819.68	EE//EM =80hr ;																
444 - Instrument Systems																							
444-2-2	DC Potential Transducers (DCPTs)-Dsn	02OCT06*	21FEB07	95	466	11,224.08	EA//DM =60hr ; EE//EM =24hr ;																
444-2-4	DC Potential Transducers (DCPTs)-Procure	22FEB07	26JUL07	109	466	8,226.00	41=6k ;																
444-2-6	DC Potential Transducers (DCPTs)-Install	27JUL07	08OCT07	51	466	19,328.29	EE//EM =16hr ; EE//SM =24hr ; EE//TB =160hr ;																
444-2-8	DC Potential Transducers (DCPTs)-Commission	09OCT07	05DEC07	40	466	12,588.60	EE//EM =24hr ; EE//SM =24hr ; EE//TB =60hr ;																
444-3-2	DC Shunts-Dsn	02OCT06*	30MAR07	122	463	16,339.60	VANKIRK =80hr ; Raki =40hr ;																
444-3-4	DC Shunts-Procure	02APR07	22AUG07	101	463	61,695.00	41=45\$;																
444-3-6	DC Shunts-Install	23AUG07	02NOV07	51	463	55,304.86	EE//EM =32hr ; EE//SM =64hr ; EE//TB =160hr ; 41=20 kpowers																
444-3-8	DC Shunts-Commission	05NOV07	10DEC07	24	463	17,754.00	EE//EM =24hr ; EE//SM =24hr ; EE//TB =120hr ;																
444-4-2	Signal Conditioning & Cabling-Dsn	01JUL05A	28FEB07	165*	454	42,074.20	EA//DM =80hr ; EE//EM =200hr ;																
444-4-4	Signal Conditioning & Cabling-Procure	01JUL05A	18JUL07	511*	454	16,025.33	41=12\$;																
444-4-6	Signal Conditioning & Cabling-Install	15AUG07	19NOV07	68	454	27,988.59	EE//EM =24hr ; EE//TB =280hr ;																
444-4-8	Signal Conditioning & Cabling-Commission	20NOV07	21DEC07	22	454	17,226.72	EE//EM =48hr ; EE//SM =40hr ; EE//TB =40hr ;																
445 - Coil Protection Systems																							
445-1-2	Ground Fault Protection-Dsn	02OCT06*	02FEB07	82	407	34,815.60	VANKIRK =120hr ; Raki =120hr ;																
445-1-4	Ground Fault Protection-Procure	27NOV06*	05JUN07	130	321	24,678.00	41=18\$;																
445-1-6	Ground Fault Protection-Install	06JUN07*	01AUG07	40	321	23,142.56	EE//EM =40hr ; EE//SM =48hr ; EE//TB =120hr ;																
445-1-8	Ground Fault Protection-Commission	30AUG07	27SEP07	20	321	9,911.12	EE//EM =24hr ; EE//SM =24hr ; EE//TB =32hr ;																
445-2-0	Overload Protection & Cabling-Prelim Dsn	01MAR04A	30SEP04A	272		1,054.90																	
445-2-105	Overload Protect-Write spec and approve	01DEC06*	05JAN07	20	470	13,741.60	marsala=80																
445-2-110	Overload Protect-Design	08JAN07	27APR07	80	480	74,788.80	lawson=320;elect dsn=80,ee//sm=80																
445-2-115	Overload Protect-Fabr 4 chassis 120 modls	30APR07*	20AUG07	79	480	70,309.68	marsala=120;reese=384																
445-2-120	Overload Protect-Test 4 units	21AUG07	18SEP07	20	480	24,095.20	raki=80;carson=80																
445-2-125	Overload Protect-Install & Rack wiring	19SEP07	16OCT07	20	480	46,195.73	raki=120;gibilisco=192																
445-2-130	Overload Protect-Write & perform ISTEP	17OCT07	13NOV07	20	480	24,744.00	raki=80;gibilisco=80																
445-2-135	Overload Protect-Documentation	08JAN07*	19SEP07	180	519	25,808.40	raki=40;elect dsn=160																

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06			FY07			FY08			FY09			
							S	O	N	S	O	N	S	O	N	S	O	N	
74 - Machine Assembly Planning and Oversight																			
Job: 7401 - TC Prep & Mach Assy Planning-PERRY																			
Oversight and Supervision																			
711A.020	LOE FY04	01OCT03A	30SEP04A	256*		148,582.46													
Prior Costs																			
7401-001	Apr-Sept MIE Cost PPPL	01APR03A	30SEP03A	66		164,000.00													
Project Scope																			
714.010	LOE FY05	01OCT04A	30SEP05A	249*		109,972.42													
714.020	LOE FY06 prior to assy starting	02OCT06*	02JUL07	187*	574	53,510.98													
714.030	LOE FY07 thru first plasma	02JUL07*	31MAR09	444*	131	877,620.95													
FED/Infrastructure Support (non Project cost)																			
613.010	Remove Shield Walls ** GPP **	01APR04A	22JUN04A	64*		0.00													
613.015	Fabricate New Bottom Course of Blocks **GPP**	01APR04A	31JAN05A	207*		0.00													
613.017	Install New Bottom Course **GPP**	01AUG05A	31AUG05A	0*		0.00													
613.020	Remove south PLT shielding (cc 7230)	01JUN04A	22JUN04A	0*		0.00													
613.025	Dispose of old south PLT shielding **GPP**	01AUG04A	31AUG04A	0*		0.00													
EXFAC003	Clear PBX control room & Safe PBX (cc7230)	27JAN03A	30JUN03A	110*		0.00													
EXFAC004	Remove Fire protection PLT wall (cc7230)	01MAY03A	09MAY03A	21		0.00													
EXFAC005	Remove Fire Protection under platform (cc7230)	01APR03A	30APR03A	21		0.00													
EXFAC006	Remove Fire Protection Control rm walls(cc7230)	01MAY03A	09MAY03A	21		0.00													
EXFAC007	Remove PBX Base Plates cc7230)	25FEB04A	12MAR04A	48*		0.00													
GPP001	GPP-Upgarde C-Site central chilled wtr plant*TBD	01OCT02A	01OCT02A	1		0.00													
GPP004	GPP-Roofing Design	01APR04A	31MAY05A	291		0.00													
GPP004.1	GPP-Roofing Install	01MAY05A	31MAY05A	0		0.00													
GPP005	GPP-Test Cell lighting Design	01APR04A	31JAN05A	206*		0.00													
GPP005.1	GPP-Test Cell lighting Install ***TBD***	02MAY05A	31MAY05A	0		0.00													
GPP006	GPP-Test Cell HVAC/dew point control Design*TBD	03OCT05	30SEP05	0	1,010	0.00													
GPP006.1	GPP-Test Cell HVAC/dew point control InstallTBD	03OCT05*	30SEP05	0	1,010	0.00													
GPP007	GPP-C-Site elevators Design	03OCT05*	30SEP05	0	1,010	0.00													
GPP007.1	GPP-C-Site elevators Install	03OCT05	30SEP05	0	1,010	0.00													
GPP008	GPP-Fire suppression high bay design*TBD*	03OCT05	30SEP05	0	1,010	0.00													
GPP008.1	GPP-Fire suppression high bay install*TBD*	03OCT05	30SEP05	0	1,010	0.00													
GPP009	Control Room Lights & Outlets design*TBD*	03OCT05	30SEP05	0	946	0.00													
GPP009.1	Control Room Lights & Outlets install*TBD*	03OCT05	30SEP05	0	946	0.00													
GPP010	Control Room HVAC Design **TBD**	03OCT05	30SEP05	0	946	0.00													
GPP010.1	Control Room HVAC Install **TBD**	03OCT05	30SEP05	0	946	0.00													
GPP011	Control Room Ceiling Design	03OCT05*	10JAN06	64	882	0.00													

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06			FY07			FY08			FY09		
							S	O	N	S	O	N	S	O	N	S	O	N
GPP011.1	Control Room Ceiling Install	11JAN06	10APR06	64	882	0.00												
GPP012	Control Rm Fire Detection & Suppression Design	03OCT05*	30SEP05	0	882	0.00												
GPP012.1	Control Rm Fire Detection & Suppression Install	03OCT05	10JAN06	64	882	0.00												
Test Cell Modifications & Upgrades																		
714.020X	TC power instl	01AUG05A	30SEP05A	436*		63,673.65												
613.030	Test Cell copper ground plane cuts	01JUL05A	29SEP06	152*	765	10,747.60												
713.010	General procurements	02APR05A	30SEP05A	128*		19,215.00												
7502-000	Outlet Design	02FEB04A	30JUN04A	107*		25,272.00												
7502-001	Test Cell 110v outlets	01APR05A	29SEP06	214*	761	18,283.24												
7502-002	Test Cell 208v outlets	01APR05A	29SEP06	214*	761	9,141.62												
7502-003	Install 480v power in test cell	01SEP05A	30SEP05A	0*		0.00												
7502-004	Install 120v panels in test cell	01SEP05A	30SEP05A	0*		0.00												
7502-010	Ready Rooms (under control room) 110v outlets	02OCT06*	10JAN07	65	570	10,480.00												
7502-011	Cable Removal in test cell (S04335-32)	01OCT03A	31OCT03A	0*		9,937.20												
7502-025	TC Floor penetration covers	03NOV03A	26NOV03A	42		16,848.00												
EXFAC001.2	Complete Crane Modifications (S04354)	02FEB04A	30JAN04A	0*		37,608.48												
FY05CV-40	FY05 unrecoverable cost variance	01OCT04A	30SEP05A	251		178,000.00												
75 - Test Cell and Basement Assembly Operations																		
7501 - Construction Support Crew																		
7501-05	Construction Support Crew during machine assy	01OCT07*	13OCT08	260	164	861,133.69												
7501-06	Construction Support Crew during e-beam mapping	23DEC08*	17FEB09	41	161	99,199.62												
7501-07	Construction Support Crew during cryostat instl	14OCT08*	08DEC08	40	212	103,081.21												
7502 - Test Cell Facility Preparations																		
7502-020	Resurface TC floor	11JAN07*	09MAR07	42	570	34,670.00												
7502-030	TC Floor firesealing	12MAR07	08MAY07	42	570	15,720.00												
7502-035	Control room firesealing	09MAY07	09JUL07	42	570	24,190.00												
7503 - Machine Assembly																		
Revised Assembly Logic (ecp18)																		
7503-010	Begin Assembly Activities	01OCT07*		0	164	0.00												
7503-020	Install & Level Support Base Plates	01OCT07	19OCT07	15	225	68,122.20												

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06			FY07			FY08			FY09		
							S	O	N	S	O	N	S	O	N	S	O	N
7503-330	Begin Cryostat Installation	14OCT08		0	124	0.00												
							***** BEGIN CRYOSTAT INSTALLATION DOE LEVEL 2 MILESTONE PEP DATE = APRIL 2009 *****											
7503-340	Install Cryostat Base, vapor barrie& port boots	14OCT08	27OCT08	10	124	40,695.20												
7503-350	Install Cryostat upper section,VB and port boots	28OCT08	10NOV08	10	124	40,695.20												
7503-360	Install Midplane Cryostat sections and port boot	11NOV08	01DEC08	15	124	61,042.80												
7503-370	Install Cryostat Circulation Duct	02DEC08	08DEC08	5	124	20,347.60												
730.8200Z	PTP and Cooldown (dup of 730.8200)	09DEC08	22DEC08	10	202	0.00												
730.1248	ACC Review	04NOV08	01DEC08	20	124	0.00												
730.1249	PSO Operational Readiness Assessment	02DEC08	08DEC08	5	124	0.00												
730.1250	PSO Operational Readiness Assessment		08DEC08	0	124	0.00												
							***** COMPLETE OPERATIONAL READINESS ASSESSMENT DOE LEVEL 2 MILESTONE PEP DATE = JUNE 2009 *****											
730.8200	PTP and Cooldown	09DEC08	22DEC08	10	124	70,850.40												
							EM//SM =80hr ; EM/TB =320hr ; EM//SM =80hr ; EM/TB =320hr ; EM//SM =120hr ; EM/TB =480hr ; EM//SM =40hr ; EM/TB =160hr ; EM//EM =80hr ; EM//SM =80hr ; EM//TB =480hr ;											
76 - Tooling Design & Fabrication																		
Job: 7601 - Tooling Design & Fabrication																		
713.020	Lab Fab/Assy/Installation	01OCT07*	30JAN09	341*	173	32,743.91												
713.030	Tooling,assy fixtures,misc equipt	01OCT07*	30JAN09	341*	173	84,841.94												
713.040	General procurements	01OCT07*	30JAN09	341*	173	63,631.45												
713.050	Welding tools, materials & equipt	01OCT07*	30JAN09	341*	173	56,561.29												
							PERRY=80;em/sm=42;em/tb=140											
							41=\$60k											
							41=\$45k											
							41=\$40k											
8 - Project Oversight and Support																		
81 - Project Management and Control																		
Job: 8101 - Project Management & Control-NEILSON																		
FY04 Actual Cost																		
M-0110	CD-2		03FEB04A	0		0.00												
810.009	PDR Support	01OCT03A	31OCT03A	3*		41,163.08												
M-0115	CD-3		16SEP04A	0		0.00												
810.002	Project Management Office PPPL FY04	01OCT03A	30SEP04A	256*		685,961.70												
810.002E	Project Management Office PPPL FY04 ECP24	01OCT03A	30SEP04A	256*		146,000.00												
Prior Costs																		
810.001	Apr-Sept MIE Cost PPPL	01APR03A	30SEP03A	128*		387,340.00												
810.003	Project Management Office PPPL FY05	01OCT04A	30SEP05A	251*		696,116.95												
							Hutch=1502 =;41=06\$k ; 35=08\$k ; strykowsky=1503hr ; pam =1040hr;phil=173 schmidt=141											

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06				FY07				FY08				FY09								
							S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	S
810.004	Project Management Office PPPL FY06	03OCT05*	29SEP06	250*	765	634,642.72	██████████				██████████ hutch=1503 85% 41=06\$; 35=08\$; strykowski=1592 90% ; pam=312 15% ; phil=0%																
810.005	Project Management Office PPPL FY07	02OCT06*	28SEP07	251*	514	662,100.12					██████████				██████████ hutch=1503 85%; strykowski=1592 90%; pam=832 40%												
810.900	Project Management Office PPPL FY08	01OCT07*	30SEP08	253*	261	554,496.26					██████████				██████████ hutch=1238 70%; strykowski=1326 75% ; pam=624 30%; 35=2												
810.909	Project Management Office PPPL FY09	01OCT08*	29MAY09	173*	88	132,273.00									██████████ hutch=300 17% strykowski=300 17% ; ; 35=1												
FY05CV-41	FY05 unrecoverable cost variance	01OCT04A	30SEP05A	251		-3,000.00																					
Job: 8102 - NCSX MIE Management ORNL-LYON																											
FY04 Actual Cost																											
810.102	Project Management Office ORNL FY04	01OCT03A	30SEP04A	256*		88,000.00																					
Prior Costs																											
810.101	Apr-Sept MIE Cost ORNL	01APR03A	30SEP03A	129*		58,600.00																					
810.103	Project Management Office ORNL FY05	01OCT04A	30SEP05A	251*		95,368.98					██████████				██████████ ORNLRM =354hr; ornlam=178 ORNL41 =02\$; ORNL35 =03\$;												
810.104	Project Management Office ORNL FY06	03OCT05*	29SEP06	250*	514	173,610.65	██████████				██████████				██████████ ORNLRM =850hr Lyon 50- ORNL41 =2\$ ornlam=95 Admin 5%												
810.104X	Project Management Office ORNL FY07	02OCT06	28SEP07	251*	514	50,514.32					██████████				██████████ ORNLRM =180hr 10% ORNL41 =2\$ ornlam=88 5%												
810.105X	Project Management Office ORNL FY08	02OCT07*	29SEP08	251*	262	36,664.00									██████████				██████████ ORNLRM =180hr 10% ORNL41 =2\$ ornlam=88 5%								
FY05CV-42	FY05 unrecoverable cost variance	01OCT04A	30SEP05A	251		13,000.00																					
82 - Project Engineering																											
Job: 8202 - Engr Mgmt & Sys Eng Support-REIERSEN																											
FY04 Actual Cost																											
820.002	LOE FY04	01OCT03A	30SEP04A	256*		601,555.68																					
8202-ECP16	eCP16	01OCT03A	30SEP04A	256*		68,000.00																					
Prior Costs																											
820.110	Apr-Sept MIE Cost PPPL	01APR03A	30SEP03A	128*		295,530.00																					
820.003	Proj engr FY05	01OCT04A	30SEP05A	251*		469,631.02					██████████				██████████ wayne=1640 95%; dudek=518 40%; 35=7k such=173; gentile=86												
820.004	Proj engr FY06	03OCT05*	29SEP06	250*	765	440,965.54	██████████				██████████				██████████ wayne=1553 90%; 35=5k; dudek=690 40% such=431 25%												
820.04X	Proj engr FY07	02OCT06*	25SEP07	248*	517	239,641.12					██████████				██████████ wayne=1036; 35=5k; dudek=173 such=173												
820.004Z	Proj engr FY08	02OCT07*	25SEP08	249*	264	245,966.08									██████████				██████████ wayne=1036; 35=5k; dudek=173 such=173								
820.005	Proj engr FY09	01OCT08*	29MAY09	173*	88	62,798.72													██████████ wayne=293 17%; 35=3								
8205FY05	System Engr Support FY05	01OCT04A	30SEP05A	251*		199,622.00					██████████				██████████ simmons=1208 70%												
8205FY06	Systems Engineering Support FY06	03OCT05*	29SEP06	250*	765	184,677.66	██████████				██████████				██████████ simmons=1061 60%												

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06			FY07			FY08			FY09			
							S	O	N	S	O	N	S	O	N	S	O	N	
FY05CV-44	FY05 unrecoverable cost variance	01OCT04A	30SEP05A	251		-19,000.00													
Job: 8203 - Design Integration-BROWN																			
FY04 Actual Cost																			
820.200	LOE FY04	01OCT03A	30SEP04A	256*		247,570.20													
8203-ECP16	eCP16	01OCT03A	30SEP04A	256*		125,000.00													
Prior Costs																			
820.150	Apr-Sept MIE Cost PPPL	01APR03A	30SEP03A	128*		178,750.00													
8203FY05	Design Integration FY05 LOE	01OCT04A	30SEP05A	251*		171,028.50													
8203-01	General Design Integration	01OCT04A	30SEP05A	251*		0.00													
8203-02	Suprt interface aux sys dev&coolant/lead routing	01OCT04A	30SEP05A	251*		0.00													
8203-03	Develop /maintain Pro/E model of NCSX facility	01OCT04A	30SEP05A	251*		0.00													
8203-04	Support metrology efforts	01OCT04A	30SEP05A	251*		0.00													
8203-06	Complt rvw of machine assembly approach	03OCT05*	06OCT05	4	1,011	0.00													
8203-07	Rvw cryostat & conventional magnet sys design	03OCT05*	13OCT05	9	1,006	0.00													
8203-08	tollerance reqmnts for MCsuprt install fixt dwgs	03OCT05*	28NOV05	39	976	0.00													
8203-09	Machine suprt dsn f/compatibility with assy reqt	03OCT05*	18OCT05	12	1,003	0.00													
8203-10	Dynamic simul MC half period install fixt w/ Pro	03OCT05*	01DEC05	42	973	0.00													
8203-11	Document NCSX Interlink& dwg control process	03OCT05*	17OCT05	11	1,004	0.00													
8203-12	Update definition VV spool piece assy simul	03OCT05*	27OCT05	19	996	0.00													
8203FY06	Design Integration FY06	03OCT05*	29SEP06	250*	765	140,201.64													
8203FY07	Design Integration FY07	02OCT06*	01OCT07	252*	513	132,979.90													
FY05CV-45	FY05 unrecoverable cost variance	01OCT04A	30SEP05A	251		-36,000.00													
Job: 8204 - Systems Analysis-BROOKS																			
FY04 Actual Cost																			
820.174	LOE FY04	01OCT03A	30SEP04A	172*		133,179.00													
8204.01	Assess magnetic material in test cell	02FEB04A	28MAY04A	85*		37,080.00													
8204.02	Model effects local high MU regions on MCWF	01MAY04A	28MAY04A	29		18,540.00													
Prior Costs																			
820.173	Apr-Sept MIE Cost PPPL	01APR03A	30SEP03A	128*		44,620.00													
8204FY05	Systems Analysis FY05	01OCT04A	30SEP05A	251*		256,633.25													
8204FY06	Systems Analysis FY06	03OCT05*	29SEP06	250*	765	225,407.70													
FY05CV-46	FY05 unrecoverable cost variance	01OCT04A	30SEP05A	251		9,000.00													
Job: 8205 - Dimensional Control Coordination																			
Metrology																			
740.135	Gary Puhl subcontract for metrology support	30SEP05A	30SEP05A	77		12,810.00													

messineo=1035;
brown=285 17%

ea//sm=432 25%
brown=518 30%

ea//sm=345
brown=518;

brooks=1553 90%

brooks=1295 75%

m&s=\$10k

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06												FY07												FY08												FY09											
							S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
METFY05	Dimensional control FY05 ECP24	01FEB05A	30SEP05A	172*		96,648.84	stratton=320 50%																																															
FY05CV-47	FY05 unrecoverable cost variance	01OCT04A	30SEP05A	251		-20,000.00																																																
METFY06R	Metrology for FP & machine assy FY06	03OCT05*	29SEP06	250*	765	189,307.03	raftoplous (measurement) 25%=415hrs stratton=707 hrs 40%																																															
METFY07R	Metrology for FP & machine assy FY07	03OCT06*	01OCT07	251*	513	74,115.10													raftoplous (measurement) 25%=415hrs																																			
METFY08R	Metrology for FP & machine assy FY08	03OCT07*	29SEP08	250*	262	75,799.75													raftoplous (measurement) 25%=415hrs																																			
84 - Project Physics																																																						
Job: 8401 - Project Physics-ZARNSTORFF																																																						
FY04 Actual Cost																																																						
840.202	Project Physics/Engr Analysis FY04	01OCT03A	30SEP04A	256*		99,806.20																																																
840.203	Closeout cost FY04 ECP-21	01OCT03A	30SEP04A	256*		14,000.00																																																
Prior Costs																																																						
840.201	Apr-Sept MIE Cost PPPL	01APR03A	30SEP03A	128*		210,270.00																																																
Job: 8402 - Project Physics MIE ORNL-LYON																																																						
FY04 Actual Cost																																																						
840.302	Project Physics/Engr Analysis FY04	01OCT03A	30SEP04A	256*		60,876.00																																																
840.303	Closeout cost FY04 ECP-21	01OCT03A	30SEP04A	256*		44,000.00																																																
Prior Costs																																																						
840.301	Apr-Sept MIE Cost ORNL	01APR03A	30SEP03A	152*		40,980.00																																																
85 - Integrated Systems Testing																																																						
Job: 8501 - Integrated Systems Testing																																																						
920.001	Procedure and Document Preparation	12DEC07*	08DEC08	250	124	486,345.11	em//em=1516;em//sm=1516																																															
920.000	Startup Personnel	31OCT08	09FEB09	72	124	711,219.45	em//em=1066, ee//em=432, ec//em=432 em//sm=979, ee//sm=0, em//tb=432 t///tm2=490;ee//tb=864																																															
920.004	Begin Start-up Testing	23DEC08		0	124	0.00	***** BEGIN STARTUP TESTING DOE LEVEL 2 MILESTONE PEP DATE = JUNE 2009 *****																																															
920.005	Punch list, Cmpl't PTP's, Reconfig, Rm temp Hi-pot	31OCT08	22DEC08	37	124	0.00																																																
920.010	Field Coil Testsing, FCPC test & E-Beam Mapping	23DEC08	26JAN09	25	124	0.00																																																
920.020	Final ISTP	27JAN09	04FEB09	7	124	0.00																																																
920.021	Operations Approval	05FEB09	09FEB09	3	124	0.00																																																
730.9000	First Plasma		09FEB09	0	124	0.00	***** COMPLETE CD-4 FIRST PLASMA DOE LEVEL 1 MILESTONE PEP DATE = JULY 2009 *****																																															
M-0120	CD-4 First Plasma		31JUL09*	0	0	0.00																																																

Activity ID	Activity Description	Start	Finish	Orig Dur	Total Float	Budgeted Cost	FY06			FY07			FY08			FY09			
							S	O	N	S	O	N	S	O	N	S	O	N	
Allocations																			
PPPL Allocations																			
Job: 8998 - Allocations																			
FY04 Actual Cost																			
99.04	PPPL Allocations FY04	01OCT03A	30SEP04A	256*		260,691.00													
Prior Costs																			
99.03	Apr-Sept MIE Cost PPPL	01APR03A	30SEP03A	128*		112,000.00													
99.05	PPPL Allocations FY05	20OCT04A	30SEP05A	251*		302,697.00													
99.05P	PPPL Allocations FY05 rebaseline re-estimate	01OCT04A	30SEP05A	251*		48,151.80													
99.06	PPPL Allocations FY06	03OCT05*	29SEP06	250*	765	329,764.50													
99.07	PPPL Allocations FY07	02OCT06*	01OCT07	252*	513	332,787.30													
99.08	PPPL Allocations FY08	01OCT07*	29SEP08	252*	262	166,336.61													
FY05CV-43	FY05 unrecoverable cost variance	01OCT04A	30SEP05A	251		56,000.00													
Contingency																			
Contingency																			
Contingency-Project																			
+		03OCT05	27FEB09	862	153	8,720,023.62													
DCMA																			
DCMA																			
DCMAFY04	DCMA	01OCT03A	30SEP04A	256*		75,000.00													

