

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)							
									FY03	FY04	FY05	FY06	FY07	FY08	FY09
<b>cc 9450 - NCSX Fabrication (MIE)</b>															
<b>1 - Stellarator Core Systems</b>															
<b>11 - In-Vessel Components</b>															
<b>111 - Limiters</b>															
<b>Job: 1101 - Limiter Adv Conc/Prel Dsn-GORANSON</b>															
<b>FY03 Actual Cost</b>															
1101-100	Update Conceptual Design	78*	15JUL03A	30SEP03A		100	60.00	60.00	■	Ornl=\$.058k					
<b>12 - Vacuum Vessel Systems</b>															
<b>121 - Vacuum Vessel Assembly</b>															
<b>Job: 1201 - Vacuum Vessel Prelim Dsn-GORANSON</b>															
<b>FY03 Actual Cost</b>															
1201-002	Apr-Sept MIE Cost ORNL	47	01APR03A	30SEP03A		100	319,050.00	319,050.00	■						
1201-003	Apr-MSept MIE Cost PPPL	47	01APR03A	30SEP03A		100	105,370.00	105,370.00	■						
1201-500	WBS 12 & 14 PDR	0		30JAN04*	-74		0.00	0.00	▼						
<b>Job: 1202 - Vacuum Vessel R&amp;D - VIOLA</b>															
<b>FY03 Actual Cost</b>															
1202-002	Apr-Sept MIE Cost ORNL	47	01APR03A	30SEP03A		100	60.00	60.00	■						
1202-003	Apr-Sept MIE Cost PPPL	47	01APR03A	30SEP03A		100	128,340.00	128,340.00	■						
<b>Vessel Weld Joint R&amp;D</b>															
1202-690	Purchase Spool piece	40	27FEB04*	22APR04	1,335		0.00	0.00	■						
1202-700	Machine pipe	10	23APR04*	06MAY04	1,335		0.00	8,424.00	■	Machinist=80					
1202-702	Machine Flanges	10	07MAY04	20MAY04	1,335		0.00	8,424.00	■	Machinist=80					
1202-704	Weld Flanges	10	21MAY04	04JUN04	1,335		0.00	8,424.00	■	Welder=80					
1202-706	Perform Test Welds	10	07JUN04	18JUN04	1,335		0.00	8,424.00	■	Welder=80					
1202-708	Install Thermocouples	1	21JUN04	21JUN04	1,335		0.00	842.40	■	em/sm=8					
1202-709	Measure Distortion & temp on backside weld	10	22JUN04	06JUL04	1,335		0.00	21,280.00	■	Raftopoulos= 80 ;em/sm=80					
1202-710	Prepare Report	4	07JUL04	12JUL04	1,335		0.00	3,214.00	■	Raftopoulos= 20					
1202-711	Supervision/QA	55*	23APR04	12JUL04	1,335		0.00	60,196.80	■	Raftopoulos= 80;Viola=260 41=\$ 4.2 k					
<b>VV Subcontractor Oversight</b>															
1202-400	Oversight and Contract Management	79*	01OCT03A	02JAN04A		LOE	62,738.00	62,738.00	■	viola=260 hrs; travel \$12k					
1202-401	Oversight and Contract Management	63*	05JAN04A	31MAR04	1,387	LOE	15,433.94	48,687.50	■	viola=173;travel=\$12 k					
1202-402	Oversight and Contract Management	85*	01APR04*	30JUL04	1,302	LOE	0.00	18,572.50	■	viola=115					
<b>Major Tool Subcontract (S04344F)</b>															
1202-303	MT-Issue VVSA MIT/QA plans and C&S Est (3.1)	0*	02JUN03A	13JUN03A		100	17,153.60	17,153.60	■	41=\$14.2 k					
1202-305	MT-Issue Draft MIT/QA plan (3.2.1)	15	13JUN03A	27JUN03A		100	10,050.56	10,050.56	■	41=\$8.32 k					
1202-310	MT-Incorp Comments & Reissue MIT/QA Plan (3.2.1)	0*	10JUL03A	17JUL03A		100	0.00	0.00	■						

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)	FY							
									FY03	FY04	FY05	FY06	FY07	FY08	FY09	
1202-315	Finalize SOW/contract & Release MT for PVVS Fab	52*	18JUL03A	15AUG03A		100	0.00	0.00								
1202-320	MT-PPPL Fabrication Release	0		15AUG03A		100	0.00	0.00								
1202-324	MT-PVVS Begin Fabrication (3.2.2)	56*	18AUG03A	30SEP03A		100	368,464.16	368,464.16								
1202-325	MT-PVVS Complete Fabrication (3.2.2) [A/ 1]	90*	10NOV03A	17MAR04	222	85	246,597.99	290,115.28								
1202-325A	Visit MT for welding	3	02FEB04*	04FEB04	1,446		0.00	2,584.00								
1202-327	PPPL Receipt Inspection of MT PVVS	10	18MAR04	31MAR04	218		0.00	14,148.00								
1202-330	MT-Final MIT/QA plans for VVSA (3.3.1)	19	01JUN04	25JUN04	195		0.00	6,370.00								
1202-335	MT-Firm Fixed Price Proposal for VVSA (3.3.2)	19	01JUN04	25JUN04	195		0.00	6,370.00								
<b>Rohwedder Subcontract (S04345F)</b>																
1202-403	RW-Issue VVSA MIT/QA plans and C&S Est (3.1)	0*	02JUN03A	13JUN03A		100	71,888.08	71,888.08								
1202-405	RW-Issue Draft MIT/QA plan (3.2.1)	76*	13JUN03A	27JUN03A		100	19,352.16	19,352.16								
1202-410	RW-Incorp Comments&Reissue MIT/QA Plan (3.2.1)	0*	10JUL03A	17JUL03A		100	0.00	0.00								
1202-415	Finalize SOW/contract & Release MT for PVVS Fab	52*	18JUL03A	15AUG03A		100	0.00	0.00								
1202-420	RW-PPPL Fabrication Release	0		15AUG03A		100	0.00	0.00								
1202-424	RW-PVVS Begin Fabrication (3.2.2)	131*	18AUG03A	30SEP03A		100	143,280.88	143,280.88								
1202-424A	RW identify fabricator	1	01DEC03A	15DEC03A		100	0.00	0.00								
1202-424B	PPPL approve new fabricator	1	16DEC03A	31DEC03A		100	0.00	0.00								
1202-424C	PPPL review fabricator QA	20*	02FEB04*	27FEB04	1,429	80	0.00	0.00								
1202-424E	PPPL visit fabricator (Feb)	2	16FEB04*	17FEB04	1,437		0.00	0.00								
1202-425	RW-PVVS Complete Fabrication (3.2.2)	118*	01OCT03A	17MAR04	222	38	69,742.33	183,532.44								
1202-427	PPPL Receipt Inspection of RW PVVS	10	18MAR04	31MAR04	218		0.00	14,148.00								
1202-430	RW-Final MIT/QA plans for VVSA (3.3.1)	19	01JUN04	25JUN04	195		0.00	23,709.14								
1202-435	RW-Firm Fixed Price Proposal for VVSA (3.3.2)	19	01JUN04	25JUN04	195		0.00	15,122.38								
1202-424D	PPPL visit fabricator (Jan)	2	02FEB04*	03FEB04	1,447		0.00	0.00								
<b>Job: 1203 - Vacuum Vessel Final Dsn-GORANSON</b>																
<b>Closeout PDR Design Deliverables</b>																
1203-101	Prepare documents for PDR closeout	62*	03NOV03A	30JAN04A		100	7,721.40	7,721.40								
1203-111	Response to chits, prepare FY04 WP/WAF/Checklist	25	01OCT03A	31OCT03A		100	7,721.40	7,721.40								
1203-121	Review, revise, and approve SRD	82*	01NOV03A	27FEB04	1,434	60	4,632.84	7,721.40								
1203-131	Complete preliminary design of insulation and he	77*	10NOV03A	27FEB04	1,434	95	9,383.51	11,582.10								
<b>Vessel Weld Joint R&amp;D</b>																
1203-405	Field Weld joint design and Specific spool piece	61*	01DEC03A	26FEB04	1,340	15	5,791.05	38,607.00								
<b>PDR Recommendations</b>																
1203-400	350c Bakeout Study	94*	03NOV03A	31DEC03A		100	25,738.00	25,738.00								
1203-401	Analysis & testing of tube attachment method	20	01DEC03A	31DEC03A		100	0.00	0.00								

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									FY03	FY04	FY05	FY06	FY07	FY08	FY09	
1203-402	Determine thermal expansion vv to mcc clearance	39*	01NOV03A	31DEC03A		100	0.00	0.00								
1203-403	Determine cost of fabrication	20	01DEC03A	31DEC03A		100	0.00	0.00								
1203-404	DECISION TO PROCEED WITH 350c BAKEOUT	0		31DEC03A		100	0.00	0.00								
<b>Final Design Tasks</b>																
121-000	**PDR #10 & 11 & 24 port ext & manual welding	80*	02FEB04	21MAY04	1,350		0.00	11,324.72								
1203-141	Finalize Spec for VV	50	16FEB04*	23APR04	91		0.00	5,147.60								
1203-151	Update Drawings	102*	01DEC03A	23APR04	91	25	31,850.78	127,403.10								
1203-161	Finalize & Sign All ICDs	71*	17NOV03A	26FEB04	92	25	3,860.70	15,442.80								
1203-171	Update/Perform Seismic Analyses	30*	02FEB04*	12MAR04	121		0.00	5,850.52								
1203-181	Update/Perform Thermal Analyses	82*	01NOV03A	27FEB04	131	50	23,012.76	46,025.52								
1203-191	Document Eddy Current Analyses	87*	03NOV03A	05MAR04	126	60	3,510.31	5,850.52								
1203-201	Update/Perform FMECA Analyses	21*	02FEB04*	01MAR04	130		0.00	5,850.52								
1203-202	Detailed Port Nozzle Analysis	63*	02JAN04A	31MAR04	128	10	5,142.40	51,424.00								
1203-211	Check Seismic Analyses	20	15MAR04*	09APR04	121		0.00	2,250.45								
1203-221	Check Thermal Analyses	20	01MAR04*	26MAR04	131		0.00	2,250.45								
1203-231	Check Eddy Current Analyses	20	08MAR04*	02APR04	126		0.00	2,250.45								
1203-241	Check FMECA Analyses	20	02MAR04*	29MAR04	130		0.00	2,250.45								
1203-251	Develop Qualification/Testing Plans	40	15MAR04*	07MAY04	101		0.00	18,643.80								
1203-261	Develop Assembly & Installation Plan	96*	01OCT03A	16FEB04	120	75	9,651.75	12,869.00								
1203-291	Update Design Basis Document	10	27FEB04*	11MAR04	92		0.00	2,059.04								
1203-301	Update Cost and Schedule Estimates	10	12MAR04*	25MAR04	92		0.00	3,088.56								
1203-311	Provide Input to ECP for FDR	10	26MAR04*	08APR04	92		0.00	3,088.56								
1203-321	Assemble FDR Drawing Package, Check & Promote	10	09APR04*	22APR04	92		0.00	4,118.08								
1203-331	Prepare Presentations	20	26APR04*	21MAY04	91		0.00	12,869.00								
1203-341	Conduct FDR	0		21MAY04	91		0.00	0.00								
1203-361	Final Design of Insulation and Heating/Cooling	103*	03NOV03A	29MAR04	1,413	30	8,956.82	29,856.08								
1203-271	Develop Assembly & Installation Procedures	64*	01JUL04*	30SEP04	1,283		0.00	42,448.20								
<b>Vacuum Vessel Vendor Selection</b>																
121-6-6	Finalize tech Doc package & Resolve chits	15	10MAY04	28MAY04	191		0.00	1,286.90								
121-6-8	Evaluate and Select VV Production Vendor	16	28JUN04	20JUL04	191		0.00	2,901.90								
121-6-83	Negotiate with vendor	9	21JUL04	02AUG04	191		0.00	1,615.00								
121-6-85	DOE Approve VV Selection & contract	11	03AUG04	17AUG04	191		0.00	0.00								
121-6-9	Award VV Production Vendor (Phase funded)	0		17AUG04	191		0.00	0.00								
121-36-9.2	Release for Fabrication	0		24AUG04	191		0.00	0.00								

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)							
									FY03	FY04	FY05	FY06	FY07	FY08	FY09
<b>Job: 1250 - Vacuum Vessel Fabrication</b>															
121-031	Title III engr	639*	21MAY04*	22NOV06	736		0.00	232,675.33							
121-038	VV FAB ba\$m=.5/.1/2125.64/0 bo\$m=.4/0/2026/.3	303	25AUG04	01NOV05	196		0.00	2,947,665.60							
121-038P	VV vendor fab, test & deliver NB ports	303	25AUG04	01NOV05	312		0.00	150,134.40							
<b>122 - Vacuum Vessel Thermal Insulation</b>															
<b>Job:1204 - VV Insulation,H&amp;C,Supports-GORANSON</b>															
122-011	Title II design WBS 122 Thermal insulation	82*	01JUN04*	24SEP04	367		0.00	40,662.79							
122-031	Title III engr WBS 122	110	04OCT05*	10MAR06	107		0.00	21,664.84							
122-036.9	Award VV Insulation	0		03OCT05*	107		0.00	0.00							
122-037	VV Insulation Procurement WBS 122	110	04OCT05*	10MAR06	107		0.00	110,493.05							
<b>123 - Vacuum Vessel Heating and Cooling Distrib</b>															
<b>Job:1204 - VV Insulation,H&amp;C,Supports-GORANSON</b>															
123-031	Title III engr WBS 123	105	03OCT05*	02MAR06	113		0.00	8,299.68							
123-036.9	Award VV Heating/Cooling Distribution	0		30SEP05	113		0.00	0.00							
123-037	VV Heating/Cooling Distr Procurement WBS 123	65	03OCT05*	05JAN06	113		0.00	88,479.00							
123-038	PDR #17 & #12 aux utility lines & 350c bakeout	65	03OCT05	05JAN06	113		0.00	233,281.80							
123-041	VV Heating/Cooling Fab/Assy WBS 123	40	06JAN06	02MAR06	113		0.00	14,744.50							
<b>124 - Vacuum Vessel Supports</b>															
<b>Job:1204 - VV Insulation,H&amp;C,Supports-GORANSON</b>															
124-011	Title II design WBS 124 VV supports	82*	01JUN04*	24SEP04	401		0.00	20,384.50							
124-031	Title III engr WBS 124	100	13OCT05*	07MAR06	134		0.00	9,030.60							
124-036.9	Award VV Supports	0		12OCT05	134		0.00	0.00							
124-037	VV Supports Procurement WBS 124	100	13OCT05*	07MAR06	134		0.00	31,450.50							
124-041	VV Supports Fab/assy WBS 124	20	08MAR06	04APR06	134		0.00	660.60							
<b>125 - Vacuum Vessel Local I&amp;C</b>															
<b>Job:1204 - VV Insulation,H&amp;C,Supports-GORANSON</b>															
125-001	Title I design WBS 125 local I&C	43	01JUN04*	30JUL04	493		0.00	10,192.25							
125-011	Title II design WBS 125 local I&C	43	02AUG04	30SEP04	493		0.00	10,192.25							
125-015	Title III design	61	03OCT05*	29DEC05	238		0.00	2,608.38							
125-037	Procurement	60	04OCT05*	29DEC05	238		0.00	3,132.00							

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									FY03	FY04	FY05	FY06	FY07	FY08	FY09
<b>13 - Conventional Coils</b>															
<b>130</b>															
<b>Job: 1301 - Conventional Coils Prel Design-KALISH</b>															
<b>FY03 Actual Cost</b>															
1301-0002	Apr-Sept MIE Cost ORNL	64*	01APR03A	30SEP03A		100	0.00	0.00							
1301-0003	Apr-Sept MIE Cost PPPL	64*	01APR03A	30SEP03A		100	91,660.00	91,660.00							
1402-004	Subcontract analysis support for PDR	41*	01OCT03A	26NOV03A		100	5,096.00	5,096.00							
1402-005	VV/MCC PDR support	37*	01OCT03A	31OCT03A		100	4,178.20	4,178.20							
1301-100	Prepare Scope Sheet to define interfaces	76*	03NOV03A	27FEB04	1,410	10	964.20	9,642.00							
1301-105	Prepare Interface Dwg's for ICD's	58*	01DEC03A	27FEB04	159	50	2,410.50	4,821.00							
1301-110	Finalize ICDs	10	01MAR04	12MAR04	159		0.00	4,821.00							
1301-115	Update design Basis Document	15	15MAR04	02APR04	159		0.00	7,231.50							
1301-120	Finalize SRD	10	02FEB04*	13FEB04	194		0.00	4,821.00							
1301-140	Complete Draft SOW	10	02JAN04A	15JAN04A		100	4,821.00	4,821.00							
1301-145	Post Draft SOW on WEB to Solicit Vendr Input	2	16JAN04A	19JAN04A		100	1,285.60	1,285.60							
1301-150	Vendor Responses	65*	02FEB04*	30APR04	139		0.00	7,231.50							
1301-155	Trim Coil Layouts	59*	01OCT03A	23DEC03A		100	55,762.90	55,762.90							
1301-160	Trim Coil Leads	103*	01DEC03A	30APR04	139	100	2,609.12	7,070.80							
1301-165	PF1-PF3 Support System Layouts	15	01DEC03A	30JAN04A		100	21,373.10	21,373.10							
163-001	Title I design WBS 152 CS sprt struc	103*	01DEC03A	30APR04	139		18,999.31	51,488.66							
1301-170	New Lead Details	10	01DEC03A	23DEC03A		100	14,141.60	14,141.60							
1301-175	Iterate & Finalize Design	86*	02JAN04A	30APR04	139	30	8,870.64	29,568.80							
1301-180	Update ANSYS model & structure	113*	03NOV03A	20APR04	139	50	4,178.20	8,356.40							
1301-185	FEA Analysis Coils, Stress deflection	103*	01DEC03A	30APR04	139	50	6,186.95	12,373.90							
1301-190	FEA Analysis PF Supports, Stress Deflection	8	21APR04	30APR04	139		0.00	12,373.90							
1301-195	Seismic Analysis	15	26NOV03A	26NOV03A		N/R	12,373.90	12,373.90							
1301-125	Update Cost and Schedule	10	19APR04*	30APR04	139		0.00	9,642.00							
1301-130	Prepare for PDR	6	23APR04	30APR04	139		0.00	7,713.60							
1301-135	PDR	0		30APR04*	139		0.00	0.00							
<b>131 - TF Coils</b>															
<b>Job: 1303 - TF Final Design &amp; Fabrication</b>															
131-011	Title II design WBS 131 TF coils	106*	03MAY04*	30SEP04	139		0.00	84,094.87							
131-012	WBS 13 TF FDR	0		30SEP04	139		0.00	0.00							
131-034	Bid & Award TF Coils	45	01OCT04	06DEC04	139		0.00	0.00							

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									FY03	FY04	FY05	FY06	FY07	FY08	FY09
131-035	TF Coils Awarded	0	20JAN05*		114		0.00	0.00							
131-037	TF Coil Procurement [A/1]	425	20JAN05*	20SEP06	114		0.00	1,234,056.64							
131-037A	TF Coil cost correction	241*	11OCT05*	20SEP06	114		0.00	81,707.61							
131-038	TF Coils Delivered	0		20SEP06	114		0.00	0.00							
131-031	Title III engr	433*	13JAN05*	29SEP06	761		0.00	130,456.04							
<b>132 - PF Coils</b>															
<b>Job: 1304-PF, Trim Coil, I&amp;C Final Design &amp; Fabr</b>															
141-011	Title II design WBS 132 PF coils	249	01OCT04*	30SEP05	232		0.00	167,006.83							
163-011	Title II design WBS 152 CS sprt struc	249	01OCT04*	30SEP05	232		0.00	53,216.38							
141-012	WBS 13 PF/CS SPRT FDR	0		30SEP05	232		0.00	0.00							
141-036	PF Coils Awarded	0	03APR06*		154		0.00	0.00							
143-037	PF 4 Procurement [A/1]	155	03APR06	08NOV06	158		0.00	224,756.29							
144-037	PF 5 Procurement [A/1]	155	03APR06	08NOV06	158		0.00	239,130.45							
145-037	PF 6 Procurement [A/1]	155	03APR06	08NOV06	158		0.00	211,469.78							
141-037	PF OH Solenoid Procurement PF1 [A/1]	205	01MAY06*	26FEB07	134		0.00	173,241.98							
141B-037	PF OH Solenoid Procurement PF2 [A/1]	205	01MAY06*	26FEB07	134		0.00	138,102.22							
142-037	PF OH Solenoid Procurement PF3 [A/1]	205	01MAY06*	26FEB07	134		0.00	146,668.65							
141-031	Title III engr WBS 132	247	03APR06*	28MAR07	641		0.00	142,918.65							
163-036.9	Award CS Support Structure	0		28FEB06	133		0.00	0.00							
163-037	WBS 152 CS Support Structure Procurement/Fab	249	01MAR06*	27FEB07	133		0.00	195,179.65							
163-015	Title III design WBS 152 CS sprt struc	249	01MAR06*	27FEB07	662		0.00	57,305.11							
<b>133 - External Trim Coils</b>															
<b>Job: 1304-PF, Trim Coil, I&amp;C Final Design &amp; Fabr</b>															
184-011	Title II design WBS 133 Ext trim coils	125	06APR05*	30SEP05	259		0.00	39,983.57							
184-015	Title III design WBS 133	87	03OCT05*	10FEB06	923		0.00	57,303.30							
184-037	External Trim Coil Procurement/Fab	87	03OCT05*	10FEB06	259		0.00	275,015.70							
<b>134 - Conventional Coil Local I&amp;C</b>															
<b>Job: 1304-PF, Trim Coil, I&amp;C Final Design &amp; Fabr</b>															
133-010	Title I design WBS 134 Conv Coil I&C	124	01OCT04*	05APR05	351		0.00	12,960.04							
133-011	Title II design WBS 134 Conv Coil I&C	125	06APR05	30SEP05	351		0.00	12,960.04							
133-015	Title III WBS 134 Conv Coil I&C	130	05JUN06*	07DEC06	714		0.00	3,696.20							
133-037	Conv Coil I&C WBS 134 Proc & Install	130	05JUN06*	07DEC06	185		0.00	66,610.52							

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Status

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)							
									FY03	FY04	FY05	FY06	FY07	FY08	FY09
<b>14 - Modular Coils</b>															
<b>141 - Modular Coil Winding Form</b>															
<b>Job: 1401 - Mod Coil Prel.Dsn-WILLIAMSON</b>															
<b>FY03 Actual Cost</b>															
1401-002	Apr-Sept MIE Cost ORNL	64*	01APR03A	30SEP03A		100	303,040.00	303,040.00							
1401-003	Apr-Sept MIE Cost PPPL	64*	01APR03A	30SEP03A		100	0.00	0.00							
<b>Job: 1402 - Mod.Coil Analyses-WILLIAMSON</b>															
<b>FY03 Actual Cost</b>															
1402-002	Apr-Sept MIE Cost ORNL	64*	01APR03A	30SEP03A		100	84,220.00	84,220.00							
1402-003	Apr-Sept MIE Cost PPPL	64*	01APR03A	30SEP03A		100	154,920.00	154,920.00							
<b>Job: 1403 - Mod. Coil Final Design-WILLIAMSON</b>															
<b>PDR/PBR Prep</b>															
1403-04	Plan response to PDR chits	23	01OCT03A	31OCT03A		100	2,573.80	2,573.80							
1403-05	Prepare FY04 WP / WAF / Checklists	21	08OCT03A	14OCT03A		100	2,573.80	2,573.80							
1403-06	Prepare documents for PDR closeout	52*	15OCT03A	24DEC03A		100	10,295.20	10,295.20							
1403-07	Prepare PBR documentation	19*	31OCT03A	18NOV03A		100	2,573.80	2,573.80							
1403-08	Performance Baseline Review	0		18NOV03A		100	0.00	0.00							
<b>Requirements/Config and Interfaces</b>															
1403-10	Review, revise, and approve SRD	95*	15OCT03A	27FEB04	142	60	1,544.28	2,573.80							
1403-11	Prepare assembly / interface drawings for ICDS	94*	15OCT03A	26FEB04	137	60	6,177.12	10,295.20							
1403-12	Finalize and approve all ICDS	10*	02FEB04*	13FEB04	146	60	3,088.56	5,147.60							
1403-13	Finalize winding pack ref xsec, conductor dims	45*	15OCT03A	26NOV03A		100	2,573.80	2,573.80							
1403-14	Revise winding form and windings/asm models	75*	15OCT03A	30JAN04A		100	41,309.49	41,309.49							
1403-15	Prepare winding form asm / detail drawings	82*	03NOV03A	27FEB04	151	70	28,826.56	41,180.80							
1403-16	Prepare detail drawings for windings and leads	60*	02JAN04A	26MAR04	131	30	12,354.24	41,180.80							
1403-17	Prepare detail drawings for clamps&chill plates	85*	02JAN04A	30APR04	106	10	4,118.08	41,180.80							
1403-18	Prepare instrumentation drawings	85*	02JAN04A	30APR04	91	10	2,059.04	20,590.40							
1403-19	Prepare Prototype Chill plate&Clamp Drawings	40*	08MAR04*	30APR04	121		0.00	30,885.60							
<b>Analysis - Thermal &amp; Electrical</b>															
1403-21	Document electrical, insulation parameters	56*	15OCT03A	19DEC03A		100	2,573.80	2,573.80							
1403-22	Update thermal analysis to current WP design	51*	22OCT03A	19DEC03A		100	5,147.60	5,147.60							
1403-23	Update thermo-hydraulic analysis of coils	58*	01DEC03A	23FEB04	155	10	642.80	6,428.00							
1403-25	Check EM loads calculation for ref scenarios	43*	02FEB04*	31MAR04	128		0.00	5,147.60							
1403-26	Perform scan of EM fault load conditions	85*	01DEC03A	31MAR04	128	30	3,088.56	10,295.20							
1403-26.1	Check thermal & electrical calculations	43*	02FEB04*	31MAR04	128		0.00	10,295.20							
1403-27	Prepare thermal, electrical analysis report	63	02FEB04*	28APR04	108		0.00	20,590.40							

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)									
									FY03	FY04	FY05	FY06	FY07	FY08	FY09		
<b>Analysis - Structural</b>																	
141TITLE2P	PDR #1,4,26 Access, Tolerance Budget, Bolting	78*	02FEB04*	19MAY04	1,352		0.00	26,896.21									
1403-29	Complete ANSYS model of coil structure asm	140*	15OCT03A	30APR04	106	40	64,280.00	160,700.00									
1403-30	Analyze global stress /deflect winding form asm	128*	31OCT03A	30APR04	106	40	6,428.00	16,070.00									
1403-31	Analyze stress in bolted connections	65*	02FEB04*	30APR04	106	40	2,571.20	6,428.00									
1403-32	Update MECHANICA model of 3 coil types	95*	15OCT03A	27FEB04	151	30	3,088.56	10,295.20									
1403-33	Anlyz wind pack deflect/stress fo thrml, EM lds	43*	02FEB04*	31MAR04	128	30	1,544.28	5,147.60									
1403-34	Analyze and optimize clamp locations	43*	02FEB04*	31MAR04	128	30	1,544.28	5,147.60									
1403-35	Update ABAQUS model 3 coil types w/clamp geom	140*	15OCT03A	30APR04	106	20	2,702.49	13,512.45									
1403-36	Analyze clamps&stress due to thrml, EM loading	83	02FEB04*	26MAY04	88		0.00	8,364.85									
1403-37	Prepare ABAQUS model of coil elec leads region	65*	02FEB04*	30APR04	106		0.00	13,512.45									
1403-38	Analyze stress/deflection in leads	83	02FEB04*	26MAY04	88		0.00	8,364.85									
1403-39	Analyze gravity, equip, seismic loading	75	02FEB04*	14MAY04	96		0.00	6,428.00									
1403-40	Analyze combined loads and fault conditions	23	31MAR04*	30APR04	106		0.00	6,428.00									
1403-40.1	Check Structural Calculations	82	02FEB04*	25MAY04	89		0.00	10,295.20									
1403-40.1A	Prepare plate element model of coil structure	65*	02FEB04*	30APR04	106		0.00	10,295.20									
1403-40.1B	Confirm global deflection/stress, re-inf of shel	64*	03FEB04*	30APR04	106		0.00	10,295.20									
1403-40.1C	Check all struct calcultations	54*	17FEB04*	30APR04	106		0.00	10,295.20									
1403-40.2A	Develop multi-filament model of all coils	11*	02FEB04*	16FEB04	120		0.00	5,147.60									
1403-40.2B	Confirm Plasma performance & surface quality	10	17FEB04	01MAR04	130		0.00	6,428.00									
1403-40.2C	Model expected deflections under thermal/EM load	20	17FEB04	15MAR04	120		0.00	10,295.20									
1403-40.2D	Confirm plasma performance & surface quality	20	16MAR04	12APR04	120		0.00	12,856.00									
1403-41	Prepare structural analysis report	45*	01MAR04*	30APR04	106		0.00	20,590.40									
<b>Winding Form FDR Prep</b>																	
1403-43	Incorporate changes due to prototype fabr	55	16FEB04*	30APR04	106		0.00	10,423.89									
1403-44	Prepare final drawings for winding forms, asm	51	20FEB04*	30APR04	106		0.00	82,232.91									
1403-45	Check and promote models / drawings	15	03MAY04*	21MAY04	91		0.00	41,180.80									
1403-46	Update build-to specification / SOW	58	16FEB04*	05MAY04	103		0.00	15,442.80									
1403-47	Prepare failure modes assessment (FMECA)	58	16FEB04*	05MAY04	103		0.00	15,442.80									
1403-48	Update design basis document	33	17MAR04*	30APR04	106		0.00	15,442.80									
1403-49	Update cost / schedule estimates	55	16FEB04*	30APR04	106		0.00	15,442.80									
1403-49.1	Process ECP for all changes	63	16FEB04*	12MAY04	98		0.00	5,147.60									
1403-50	Prepare FDR documentation / presentations	9	30APR04*	12MAY04	98		0.00	10,295.20									
1403-50.1	Release EIO/JPP f/flow solidif & mach simulation	0	01MAR04*		171		0.00	0.00									
1403-50.2	Prepare Prelim Bid Package	15	13APR04	03MAY04	129		0.00	0.00									

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)								
									FY03	FY04	FY05	FY06	FY07	FY08	FY09	
1403-50.5	Prelim Bid Package Released	0		03MAY04*	129		0.00	0.00								
1403-51	Final Design Review	0		21MAY04*	91		0.00	0.00								
C-081.1	JOULE MILESTONE #4 - CD-3 Readiness	0		21MAY04	91		0.00	0.00								
<b>Post FDR Update &amp; Planning</b>																
1403-53	Resolve FDR comments and recommendations	15	24MAY04	14JUN04	115		0.00	15,442.80								
1403-54	Final bid package( specs,models,dwgs)	13	26MAY04	14JUN04	115		0.00	20,590.40								
C-071	Project eval cost proposals & select vendor	40	07JUL04	31AUG04	115		0.00	0.00								
C-081	Castings-Award Mfg contract (phase funded)	0	01SEP04*		115		0.00	0.00								
<b>Job:1404-Mod Coil Winding Form R&amp;D-HEITZENROEDER</b>																
<b>FY03 Actual Cost</b>																
1404-002	Apr-Sept YTD MIE Cost ORNL	64*	01APR03A	30SEP03A		100	100,220.00	100,220.00								
1404-003	Apr-Sept YTD MIE Cost PPPL	64*	01APR03A	30SEP03A		100	64,670.00	64,670.00								
<b>Prototype Design Issues</b>																
1404-109.J	JOULE MILESTONE #1-Authorize Prototype Fab	0		20OCT03A			0.00	0.00								
1404-110.J	JOULE MILESTONE #3-Prototype Casting Made	0		26MAR04	67		0.00	0.00								
1404-65	Fabrication oversight by Project	168*	01OCT03A	26MAY04	1,371	LOE	38,074.78	75,246.60								
<b>EIO Subcontract (S04341F)</b>																
1404-100	EIO-Cost FY03	10	01MAY03A	30SEP03A		100	307,170.24	307,170.24								
1404-110X	EIO-forecast increase	176*	21OCT03A	28JUN04	1,344		132,120.00	293,600.00								
1404-68	Authorization by PPPL	0		20OCT03A			0.00	0.00								
1404-69	Oversight / reporting (4.1 & 4.2)	138*	21OCT03A	04MAY04	1,387		34,883.11	67,865.98								
1404-70	Process model	27	21OCT03A	26NOV03A		100	44,590.00	44,590.00								
1404-71	Build pattern	42*	01DEC03A	21JAN04A		100	44,590.00	44,590.00								
1404-72	EIO Make casting	16*	22JAN04A	12FEB04	98		19,485.83	44,590.00								
1404-73	Inspect, repair, heat treat	31*	13FEB04	26MAR04	140		0.00	44,590.00								
1404-74	Ship, setup for machining	10	26APR04	07MAY04	120		0.00	60,897.20								
1404-75	Perform machining	30*	10MAY04*	21JUN04	120		0.00	74,274.10								
1404-76	Final inspection	2	22JUN04	23JUN04	120		0.00	7,500.00								
1404-77	Ship to PPPL	3	24JUN04	28JUN04	120		0.00	2,570.00								
1404-77.1	EIO-Deliver Prototype	0		28JUN04	120		0.00	0.00								
1404-78	Flow solid & machine simulation for Production	34*	13MAY04*	30JUN04	118		0.00	40,000.00								
1404-79	Final MIT/QA plan	30	24MAY04	06JUL04	115		0.00	19,990.00								

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)										
									FY03	FY04	FY05	FY06	FY07	FY08	FY09			
1404-80	Fixed price proposal	30	24MAY04	06JUL04	115		0.00	11,960.00										
<b>JP Pattern Subcontract (S04340F)</b>																		
1404-200	JPP- cost FY03	10	01MAY03A	30SEP03A		100	92,170.40	92,170.40										
1404-210X	PPPL add'l-forecast increase	105*	02FEB04	28JUN04	1,344		0.00	200,000.00										
1404-82	Authorization by PPPL to begin Fabrication	0		20OCT03A			0.00	0.00										
1404-83	Oversight / reporting	138*	21OCT03A	04MAY04	1,387	LOE	30,030.78	58,425.64										
1404-84	Process model	125*	21OCT03A	15APR04	1,400		35,465.20	62,438.74										
1404-85	Build pattern	72*	01DEC03A	12MAR04	67		6,619.70	33,098.52										
1404-86	JPP Make casting	10*	15MAR04	26MAR04	67		0.00	16,434.60										
1404-87	Inspect, repair, heat treat	22*	29MAR04	27APR04	118		0.00	119,998.06										
1404-88	Ship, setup for machining	3*	28APR04	30APR04	118		0.00	1,579.76										
1404-89	Perform machining	37*	03MAY04	23JUN04	118		0.00	281,450.26										
1404-90	Final inspection	3*	24JUN04	28JUN04	118		0.00	8,710.00										
1404-91	Ship to PPPL	2	29JUN04	30JUN04	118		0.00	3,120.00										
1404-91.1	JPP-Deliver Prototype	0		30JUN04	118		0.00	0.00										
1404-92	Flow solid & machine simulation for Production	34*	13MAY04*	30JUN04	118		0.00	40,000.00										
1404-93	Final MIT/QA plan	30	24MAY04	06JUL04	115		0.00	8,170.00										
1404-94	Fixed price proposal	30	24MAY04	06JUL04	115		0.00	12,150.00										
<b>Job: 1411 - Modular Coil Casting Fabrication</b>																		
<b>Type 1 Castings</b>																		
172-031	Title III engr	589*	24MAY04*	29SEP06	761		0.00	289,943.89										
172-037	MCWF FAB \$M BA=.6/3.184/1.0553 BO=.4/2.92/1.5193	409*	01SEP04	13APR06	115		0.00	5,278,787.24										
C-121	Castings-C-1-1 (1st MCC form delivered)	75	01SEP04	17DEC04	115		0.00	0.00										
C-181	Castings-C-4-1	18	22DEC04	25JAN05	115		0.00	0.00										
C-261	Castings-C-7-2	18	28JAN05	22FEB05	115		0.00	0.00										
C-321	Castings-C-10-2	18	25FEB05	22MAR05	115		0.00	0.00										
C-401	Castings-C-13-3	18	25MAR05	19APR05	115		0.00	0.00										
C-461	Castings-C-16-3	18	22APR05	17MAY05	115		0.00	0.00										
<b>Type 2 Castings</b>																		
C-101	Castings-Production casting tooling prep type MI	65	20DEC04	29MAR05	152		0.00	0.00										
C-141	Castings-A-2-1	18	20MAY05	15JUN05	115		0.00	0.00										
C-201	Castings-A-5-1	18	16JUN05	12JUL05	115		0.00	0.00										
C-281	Castings-A-8-2	17	15JUL05	08AUG05	115		0.00	0.00										
C-341	Castings-A-11-2	17	11AUG05	02SEP05	115		0.00	0.00										
C-421	Castings-A-14-3	17	08SEP05	30SEP05	115		0.00	0.00										

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)									
									FY03	FY04	FY05	FY06	FY07	FY08	FY09		
C-481	Castings-A-17-3	17	05OCT05	27OCT05	115		0.00	0.00									
<b>Type 3 Castings</b>																	
C-102	Castings-Production casting tooling prep type BU	65	30MAR05	29JUN05	199		0.00	0.00									
C-161B	Castings-B-3-1	17	01NOV05	23NOV05	115		0.00	0.00									
C-221B	Castings-B-6-1	17	30NOV05	22DEC05	115		0.00	0.00									
C-301B	Castings-B-9-2	17	04JAN06	26JAN06	115		0.00	0.00									
C-361B	Castings-B-12-2	17	27JAN06	20FEB06	115		0.00	0.00									
C-441B	Castings-B-15-3	17	23FEB06	17MAR06	115		0.00	0.00									
C-501B	Castings-B-18-3 (last MCC form delivered)	17	22MAR06	13APR06	115		0.00	0.00									
<b>142 - Modular Coil Windings and Assembly</b>																	
<b>Job: 1403 - Mod. Coil Final Design-WILLIAMSON</b>																	
<b>Winding and Assembly Design</b>																	
1403-56	Inc changes due to racetrack testing	6	01JUL04*	09JUL04	189		0.00	15,442.80									
1403-57	Prep final dwgs windings, leads,c plates,clamps	40	12JUL04	03SEP04	189		0.00	103,080.69									
1403-58	Check and promote models / drawings	26	07SEP04	12OCT04	189		0.00	52,975.10									
1403-59	Update build-to specifications	30	30JUN04*	11AUG04	232		0.00	15,442.80									
1403-60	Update design basis document	30	27JUL04*	07SEP04	214		0.00	15,442.80									
1403-61	Update cost / schedule estimates	30	31AUG04*	12OCT04	189		0.00	15,832.56									
1403-62	Prepare FDR documentation / presentations	20	15SEP04*	12OCT04	189		0.00	10,684.96									
1403-63	Final Design Review	0		12OCT04	189		0.00	0.00									
142TITLE3	Titel III Design-Coil Winding & Assembly	490*	13OCT04	29SEP06	761		0.00	423,250.72									
<b>Job: 1405-Mod Coil Winding R&amp;D Prep-CHRZANOWSKI</b>																	
<b>FY03 Actual Cost</b>																	
1405-002	Apr-Sep YTD MIE Cost ORNL	64*	01APR03A	30MAY03A			0.00	0.00									
1405-003	Apr-Sep YTD MIE Cost PPPL	64*	01APR03A	30MAY03A			168,070.00	168,070.00									
<b>Job: 1406 - Mod. Coil Winding R&amp;D-CHRZANOWSKI</b>																	
<b>FY03 Actual Cost</b>																	
1406-0002	Apr-Sep YTD MIE Cost ORNL	64*	01APR03A	30SEP03A		100	0.00	0.00									
1406-0003	Apr-Sep YTD MIE Cost PPPL	64*	01APR03A	30SEP03A		100	831,120.00	831,120.00									
<b>Oversight &amp; Supervision</b>																	
1406-000	Supervision & Oversight	180*	01OCT03A	22JUN04	1,312	LOE	51,458.88	117,218.40									
1406-047	Prepare R&D report	17	23JUN04	16JUL04	1,312		0.00	0.00									
1406-048	Testing & Strain Gauge Design	20	01OCT03A	31OCT03A		100	24,253.50	24,253.50									
<b>Keystone R&amp;D</b>																	
1406-001	Purchase 10 spools conductor (twisted racetrack)	40*	03NOV03A	23DEC03A		100	7,644.00	7,644.00									
1406-003	Purchase 8 spools conductor (long twisted windin	40*	03NOV03A	23DEC03A		100	7,644.00	7,644.00									
1406-005	Purchase epoxy & Insulation	76*	03NOV03A	27FEB04	244	50	4,693.68	6,370.00									

Williamson,Hargrove,Lovett=120  
 Jones,Lovett,Hargrove=800  
 Cole,Williamson,Lovett,Hargrove,Jones=400  
 Williamson=120  
 Williamson=120  
 Williamson=120  
 Williamson=80  
 Formlem=2524  
 travel=\$36k

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BASELINE  
 Progress Bar  
 Critical Activity

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)	Gantt Chart												
									FY03	FY04	FY05	FY06	FY07	FY08	FY09						
1406-010	Keystone Test for New Conductor	31*	02JAN04A	13FEB04	353	80	4,915.20	6,144.00	em/tb= 80 hrs;												
1406-011	Purchase add'l copper Conductor	35	02FEB04	19MAR04	1,385		0.00	8,918.00	\$7k for copper												
1406-012	Repeat Keystone Test for New Conductor	10	22MAR04	02APR04	1,385		0.00	6,144.00	em/tb= 80 hrs;												
<b>Twisted Racetrack Design (Williamson)</b>																					
1406-097	Verify Conductor Dims	3	01OCT03A	03OCT03A		100	2,573.80	2,573.80	williamson=20												
1406-098	Complete Drawings of Casting	21	13OCT03A	26NOV03A		100	15,442.80	15,442.80	lovet,jones=120												
1406-099	Review/Approve Casting Drawings	10	26NOV03A	26NOV03A		100	15,442.80	15,442.80	lovet,jones,cole,williamson=120												
1406-101	Prepare Clamp & Chill Plate detail Drawings	61*	24NOV03A	27FEB04	184	60	12,354.24	20,590.40	lovet=1260												
1406-102	Review/Approve Clamp& Chill Plate Dwgs	10	01MAR04	12MAR04	184		0.00	15,442.80	lovet,jones,cole,williamson=120												
1406-103	Twisted Racetrack FDR	0		12MAR04	184		0.00	0.00	▼												
1406-104	Prepare Draft of Coil Test Plan	99*	01OCT03A	27FEB04	1,410	30	1,544.28	5,147.60	nelson=40												
1406-105	Prepare ANSYS thermal analysis model	3	31OCT03A	31OCT03A		100	2,573.80	2,573.80	williamson=20												
1406-106	Analyze Thermal Behavior due to pulse	3	31OCT03A	31OCT03A		100	2,573.80	2,573.80	williamson=20												
1406-107	Calculate EM Loads due to max current	3	03NOV03A	26NOV03A		100	5,147.60	5,147.60	williamson=40												
1406-108	Prep MECHANICA Struct Analysis Model	3	03NOV03A	26NOV03A		100	5,147.60	5,147.60	freudenberg=40												
1406-109	Analyze Stress/deflection due to cooldown,pulse	5	03NOV03A	26NOV03A		100	5,147.60	5,147.60	freudenberg=40												
1406-110	Finalize, Approve coil test plan	58*	01DEC03A	27FEB04	259	30	3,088.56	10,295.20	nelson=80												
<b>Twisted Racetrack Fabrication &amp; Winding (Chrzano)</b>																					
1406-014	Bid, Evaluate and Award Casting to EIO or JPP	28	01DEC03A	23DEC03A		100	0.00	0.00													
1406-016	Procure casting from EIO (new scope)	43*	02FEB04	31MAR04	191		0.00	127,387.26	41=\$ 60 + \$40k= \$100k k PE4371												
1406-016.1	Inspect & Measure Casting	10	01APR04	14APR04	191		0.00	0.00													
1406-016.5	PPPL Fabricate chill plates and clamps	30	15MAR04*	23APR04	184		0.00	22,992.00	Machinist =160hrs; eb/tb=80												
1406-017	Wind twisted racetrack	20	26APR04	21MAY04	184		0.00	24,576.00	em/tb=320 hrs												
1406-018	Mold & VPI twisted racetrack	15	24MAY04	14JUN04	184		0.00	18,432.00	em/tb=240 hrs												
1406-019	Setup coil in test stand	2	15JUN04	16JUN04	184		0.00	10,224.80	em/tb=48; ee/tb=32; ee/sm=4												
1406-021	Perform tests	5	17JUN04	23JUN04	184		0.00	30,853.60	em/tb=128; ee/tb=56; Hatcher=40; Gettelfinger=40; Gernhardt=40												
1406-023	Section and Evaluate coil turns	5	24JUN04	30JUN04	184		0.00	0.00													
<b>Conductor Property Testing</b>																					
1406-029	Fab New Specimen Molds	60*	01DEC03A	25FEB04	129	35	8,047.20	22,992.00	Machinist=160; em/tb=80												
1406-030	Fab & Pot samples	30*	26JAN04A	05MAR04	122	15	5,529.60	36,864.00	em/tb= 480												
1406-031	Prep fixtures and test equipt	67*	03NOV03A	16FEB04	115	50	34,617.00	69,234.00	Kozub=160; Jurzynski=160 Machinist=240; 41=\$ 1 k												
1406-032	Test samples	31	17FEB04*	30MAR04	115		0.00	64,032.00	Kozub=240; Jurzynski=240												
1406-033	Prepare Test report	15	17MAR04*	06APR04	115		0.00	12,856.00	Zatz=80												
<b>"inchworm" Twisted Winding</b>																					
1406-119	Join straight sections w/2 end loops	79*	01OCT03A	30JAN04A		100	31,590.00	31,590.00	welder=150; machinist=150												

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)								
									FY03	FY04	FY05	FY06	FY07	FY08	FY09	
1406-120	Wind Conductor	19*	30JAN04A	25FEB04	1,412		976.90	18,432.00								
1406-040	JOULE MILESTONE #2-Begin winding on 3D surface	0	30JAN04A				0.00	0.00								
<b>Job:1408-Mod Coil Winding Supplies-CHRZANOWSKI</b>																
<b>FY03 Actual Cost</b>																
1408-001	Apr-Sep YTD MIE Cost PPPL	64	01APR03A	30SEP03A		100	29,790.00	29,790.00								
<b>Materials , Supplies, Machining</b>																
1408-101	Insulation-Spec & Requisition	20*	02FEB04	27FEB04	174		0.00	0.00								
1408-103	Insulation-Bid & Award	30	01MAR04	09APR04	174		0.00	0.00								
1408-105	Insulation-Delivery for Prototype	30	12APR04	21MAY04	174		0.00	3,822.00								
1408-107	Insulation-Delivery for Production	65	24MAY04	24AUG04	203		0.00	82,810.00								
1408-111	Epoxy -Spec & Requisition	10	01APR04*	14APR04	171		0.00	0.00								
1408-113	Epoxy -Bid & Award	30	15APR04	26MAY04	171		0.00	0.00								
1408-115	Epoxy -Delivery for Prototype	20	27MAY04	24JUN04	171		0.00	6,370.00								
1408-117	Epoxy -1st Delivery for Production	20	26JAN05	22FEB05	123		0.00	19,380.00								
1408-119	Epoxy -2nd Delivery for Production	20	23FEB05	22MAR05	123		0.00	19,380.00								
1408-121	Epoxy -3rd Delivery for Production	20	18MAY05	15JUN05	122		0.00	19,380.00								
1408-123	Epoxy -4th Delivery for Production	20	09AUG05	05SEP05	121		0.00	19,380.00								
1408-125	Epoxy -5th Delivery for Production	20	27OCT05	23NOV05	123		0.00	19,575.00								
1408-127	Epoxy -6th Delivery for Production	20	24JAN06	20FEB06	116		0.00	19,575.00								
1408-131	Chill plates & clamps -Spec & Requisition	10	19APR04*	30APR04	121		0.00	0.00								
1408-133	Chill plates & clamps -Bid & Award	20	03MAY04	28MAY04	121		0.00	0.00								
1408-135	Chill plates & clamps -Delivery for Prototype	40	01JUN04	27JUL04	121		0.00	15,288.00								
1408-137	Chill plates & clamps Production 1st 25%	71	28JUL04	04NOV04	121		0.00	69,138.25								
1408-138	Chill plates & clamps Production balance	130	05NOV04	11MAY05	121		0.00	209,304.00								
1408-141	Copper Conductor -Spec & Requisition	10	01APR04*	14APR04	156		0.00	0.00								
1408-143	Copper Conductor -Bid & Award	30	15APR04	26MAY04	156		0.00	0.00								
1408-145	Copper Conductor -Delivery for Prototype	35	27MAY04	16JUL04	156		0.00	15,288.00								
1408-147	Copper Conductor -Delivery for Production	50	19JUL04	27SEP04	200		0.00	296,842.00								
1408-151	G-11 Filler Fabrication (prototype)	65	01APR04*	01JUL04	166		0.00	35,547.20								
1408-153	G-11 Filler Fabrication (production)	284*	20AUG04*	30SEP05	166		0.00	323,980.99								
1408-161	Lead hardware Fabrication (prototype)	65	01APR04*	01JUL04	166		0.00	32,630.00								
1408-163	Lead hardware Fabrication (production)	284*	20AUG04*	30SEP05	166		0.00	155,510.87								
1408-171	Misc supplies/matt's for Prototype	50	01APR04*	10JUN04	181		0.00	5,096.00								

em/lb=240  
 JOULE MILESTONE #2  
 Initiate Winding Process on a 3D Surface  
 & assess Implications f/ Design and Fabrication.  
 2nd QUARTER FY04

M&S= \$3 k  
 M&S= \$ 65 k  
 M&S= \$ 5 k  
 M&S= \$ 15 k  
 M&S= \$ 15 k  
 M&S= \$ 15 k  
 M&S= \$ 15 k  
 M&S= \$ 15 k  
 M&S= \$ 12 k  
 M&S= \$ 54 k  
 M&S= \$ 162 k  
 M&S= \$ 12 k  
 M&S= \$ 240 k less \$7k in 1406  
 M&S= \$ 1 k + \$15k  
 machinist=144  
 M&S= \$ 1 k+\$18  
 Machinist=80  
 Machinist=1440  
 M&S= \$4 k

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)									
									FY03	FY04	FY05	FY06	FY07	FY08	FY09		
1408-173	Misc supplies/mat's for Production Windings	50	01OCT04*	13DEC04	147		0.00	32,300.00									
1408-181	VPI Supplies for Prototype(mold epoxy,& hardware	50	01APR04*	10JUN04	181		0.00	10,213.60									
1408-183	VPI Supplies -Epoxy & tape for Production 40%	50	02AUG04*	11OCT04	190		0.00	17,871.28									
1408-184	VPI Supplies -Epoxy & tape for Production 60%	50	01OCT04*	13DEC04	1,233		0.00	28,424.00									
1408-185	VPI Supplies -Valves & Tubing 40%	50	02AUG04*	11OCT04	190		0.00	20,424.32									
1408-186	VPI Supplies -Valves & Tubing 60%	50	01OCT04*	13DEC04	1,233		0.00	31,008.00									
<b>Job: 1410 Mod Coil Prototype Winding-CHRZANOWSKI</b>																	
<b>Prototype Winding</b>																	
141-3-44	Oversight and materials/supplies	186	18MAR04	09DEC04	144		0.00	131,344.96									
141-3-45	Wind & VPI prototype coil (stations 1 thru 5)	87	28JUL04*	30NOV04	144		0.00	184,317.50									
141-3-46	Test prototype coil (station 6)	7	01DEC04	09DEC04	144		0.00	28,850.00									
141-3-45.1	Complete Prototype Winding (SOW 4.9)	0		09DEC04*	144		0.00	0.00									
141-3-45.2	Final Procedures & Process Plan (SOW 4.10)	30	27OCT04	09DEC04	144		0.00	0.00									
<b>Job: 1421 - Type C Winding/VPI</b>																	
<b>Labor</b>																	
171-040	Winding Oversight (LOE)	442	07DEC04*	14SEP06	772		0.00	635,298.88									
171-041	Modular Coil Winding (18 coils) (see detail sch)	391*	24JAN05	10AUG06	115		0.00	3,139,171.62									
171-041CT	PBR Increment for cold testing	353*	17MAR05	10AUG06	115		0.00	430,258.60									
<b>Period 1</b>																	
P1-001	Prep casting C-1-1 (station 1)	12	06JAN05	21JAN05	120		0.00	0.00									
P1-011	Wind coil C-1-1 (station 2)	38	24JAN05*	16MAR05	120		0.00	0.00									
P1-021	VPI,Test &Ship C-1-1 (1st MCC fabri) (sta 4/5/6)	34	17MAR05	03MAY05	165		0.00	0.00									
P1-091	Prep casting C-4-1 (station 1)	12	26JAN05	10FEB05	125		0.00	0.00									
P1-101	Wind coil C-4-1 (station 3)	37	18FEB05*	11APR05	120		0.00	0.00									
P1-111	VPI, Test & Ship C-4-1 (station 4/5/6)	34	12APR05	27MAY05	162		0.00	0.00									
<b>Period 2</b>																	
P2-001	Receive casting C7-2	12	23FEB05	10MAR05	127		0.00	0.00									
P2-011	Wind coil BA-7-2 (station 2)	37	17MAR05	06MAY05	123		0.00	0.00									
P2-021	VPI,Test & Ship C-7-2 (station 4/5/6)	34	09MAY05	24JUN05	158		0.00	0.00									
P2-091	Receive casting C-10-2	12	23MAR05	07APR05	122		0.00	0.00									
P2-101	Wind coil C-10-2 (station 3)	37	12APR05	02JUN05	120		0.00	0.00									
P2-111	VPI,Test & Ship C-10-2 (station 4/5/6)	34	03JUN05	21JUL05	155		0.00	0.00									
<b>Period 3</b>																	
P3-001	Receive casting C-13-3	12	20APR05	05MAY05	124		0.00	0.00									
P3-011	Wind coil C-13-3 (station 2)	37	12MAY05	05JUL05	120		0.00	0.00									
P3-021	VPI,test & ship C-13-3 (station 4/5/6)	34	06JUL05	22AUG05	148		0.00	0.00									

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)								
									FY03	FY04	FY05	FY06	FY07	FY08	FY09	
P3-091	Receive casting C-16-3	12	18MAY05	03JUN05	119		0.00	0.00								
P3-101	Wind coil C-16-3 (station 3)	37	06JUN05	27JUL05	119		0.00	0.00								
P3-111	VPI,test & ship C-16-3 (station 4/5/6)	34	28JUL05	14SEP05	147		0.00	0.00								
<b>Job: 1422 - Type A Winding/VPI</b>																
<b>Period 1</b>																
P1-031	Receive casting A-2-1	12	16JUN05	01JUL05	121		0.00	0.00								
P1-041	Wind coil A-2-1 (station 2)	37	06JUL05	25AUG05	120		0.00	0.00								
P1-051	VPI, Test & Ship A-2-1 (station 4/5/6)	34	26AUG05	13OCT05	141		0.00	0.00								
P1-121	Receive casting A-5-1	12	13JUL05	28JUL05	118		0.00	0.00								
P1-131	Wind coil A-5-1 (station 3)	37	29JUL05	20SEP05	118		0.00	0.00								
P1-141	VPI,Test & Ship A-5-1 (station 4/5/6)	34	21SEP05	07NOV05	139		0.00	0.00								
<b>Period 2</b>																
P2-031	Receive casting A-8-2	12	09AUG05	24AUG05	121		0.00	0.00								
P2-041	Wind coil A-8-2 (station 2)	37	26AUG05	18OCT05	120		0.00	0.00								
P2-051	VPI,Test & Ship A-8-2 (station 4/5/6)	34	19OCT05	07DEC05	134		0.00	0.00								
P2-121	Receive casting A-11-2	12	06SEP05	21SEP05	117		0.00	0.00								
P2-131	Wind coil A-11-2 (station 3)	37	22SEP05	11NOV05	117		0.00	0.00								
P2-141	VPI, test & Ship A-11-2 (station 4/5/6)	34	14NOV05	10JAN06	131		0.00	0.00								
<b>Period 3</b>																
P3-031	Receive casting A-14-3	12	03OCT05	18OCT05	120		0.00	0.00								
P3-041	Wind coil A-14-3 (station 2)	37	19OCT05	12DEC05	120		0.00	0.00								
P3-051	VPI,Test & ship A-14-3 (station 4/5/6)	34	13DEC05	06FEB06	127		0.00	0.00								
P3-121	Receive casting A-17-3	12	28OCT05	14NOV05	116		0.00	0.00								
P3-131	Wind coil A-17-3 (station 3)	37	15NOV05	16JAN06	116		0.00	0.00								
P3-141	VPI,Test & ship A-17-3 (station 4/5/6)	34	17JAN06	03MAR06	123		0.00	0.00								
<b>Job: 1423 - Type B Winding/VPI</b>																
<b>Period 1</b>																
P1-061	Receive casting B-3-1	12	28NOV05	13DEC05	119		0.00	0.00								
P1-071	Wind coil B-3-1 (station 2)	37	14DEC05	10FEB06	119		0.00	0.00								
P1-081	VPI,Test & Ship B-3-1 (station 4/5/6)	34	13FEB06	30MAR06	119		0.00	0.00								
P1-151	Receive casting B-6-1	12	23DEC05	17JAN06	115		0.00	0.00								
P1-161	Wind coil B-6-1 (station 3)	37	18JAN06	09MAR06	115		0.00	0.00								
P1-171	VPI,Test & Ship B-6-1 (station 4/5/6)	34	10MAR06	26APR06	115		0.00	0.00								
<b>Period 2</b>																
P2-061	Receive casting B-9-2	12	27JAN06	13FEB06	118		0.00	0.00								
P2-071	Wind coil B-9-2 (station 2)	37	14FEB06	05APR06	118		0.00	0.00								

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)												
									FY03	FY04	FY05	FY06	FY07	FY08	FY09					
P2-081	VPI,Test & Ship B-9-2 (station 4/5/6)	34	06APR06	23MAY06	118		0.00	0.00												
P2-151	Receive casting B-12-2	12	21FEB06	08MAR06	116		0.00	0.00												
P2-161	Wind coil B-12-2 (station 3)	37	10MAR06	01MAY06	115		0.00	0.00												
P2-171	VPI,Test & Ship B-12-2 (station 4/5/6)	34	02MAY06	19JUN06	115		0.00	0.00												
<b>Period 3</b>																				
P3-061	Receive casting B-15-3	12	20MAR06	04APR06	119		0.00	0.00												
P3-071	Wind coil B-15-3 (station 2)	37	06APR06	26MAY06	118		0.00	0.00												
P3-081	VPI,Test & ship B-15-3 (station 4/5/6)	34	30MAY06	17JUL06	118		0.00	0.00												
P3-151	Receive casting B-18-3	12	14APR06	01MAY06	115		0.00	0.00												
P3-161	Wind coil B-18-3 (station 3)	37	02MAY06	22JUN06	115		0.00	0.00												
P3-171	Apply Mold, VPI ,Test & ship B-18-3 (last mcc)	34	23JUN06	10AUG06	115		0.00	0.00												
<b>143 - Modular Coil Local I&amp;C</b>																				
<b>Job: 1431 - Modular Coil Local I&amp;C</b>																				
174-001	Title I design WBS 143 Mod coil local I&C	30	03OCT05*	11NOV05	316		0.00	14,027.29												
174-011	Title II design WBS 143 Mod coil local I&C	30	14NOV05	04JAN06	316		0.00	14,027.29												
174-035	Modular Coil local I&C -Procurement	60	05JAN06	29MAR06	321		0.00	17,395.65												
174-036	Modular Coil local I&C -Title III	80	05JAN06	26APR06	884		0.00	5,529.26												
174-037	Modular Coil local I&C -Install	20	15JAN07*	09FEB07	120		0.00	70,223.20												
<b>144 - Modular Coil Winding Facility &amp; Fixtures</b>																				
<b>Job: 1407 -Mod Coil Winding Facility-CHRZANOWSKI</b>																				
<b>FY03 Actual Cost</b>																				
1407-001	Apr-Sep YTD MIE Cost PPPL	64*	01APR03A	30SEP03A		100	267,550.00	267,550.00												
<b>Oversight and Supervision</b>																				
1407-002	Winding Facility, Tooling, Materials Oversight	186*	01OCT03A	30JUN04		1,323	82,190.84	193,390.20												
1407-003	Winding Facility, Tooling, Design	250*	01OCT03A	30SEP04		1,259	43,016.70	136,128.80												
<b>Autoclave, Turning Fixture &amp; other components</b>																				
1407-005	Domes & cylinder Fab & Deliver (PE4226)	18	01DEC03A	23DEC03A		100	20,167.42	20,167.42												
1407-006.2	Blower/Elec HW- Fab & Deliver (PE 4218)	18	31OCT03A	31OCT03A		100	509.60	509.60												
1407-008	Remaining Autoclave components-Deliver	49	01OCT03A	09MAR04	182	90	10,319.40	11,466.00												
1407-011	Fabricate Autoclave	128*	01OCT03A	08APR04	160	60	97,822.08	163,036.80												
1407-012	Autoclave PTP	5	09APR04	15APR04	160		0.00	9,216.00												
1407-100	Fabricate turning fixtures and coil supports	145*	01DEC03A	30JUN04	162	30	91,650.00	305,500.00												
1407-100.2	Fabr turning fixt&coil supports **2nd line**	64	01JUL04	30SEP04	211		0.00	179,400.00												
1407-098	Final Dwgs for winding clamps	58*	01DEC03A	27FEB04	162	30	0.00	0.00												
1407-099	Bid,Evaluate & Award Winding Clamps???????	16	01MAR04*	22MAR04	162		0.00	0.00												
1407-110	Fabricate Winding clamp sets (100)	71*	23MAR04*	30JUN04	162		0.00	80,976.00												



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)									
									FY03	FY04	FY05	FY06	FY07	FY08	FY09		
1407-110.2	Fabr Winding clamp sets (100)**2nd line**	64	01OCT04*	11JAN05	147		0.00	40,027.50									
1407-115	Fabricate Conductor payout spool system	107*	02FEB04*	30JUN04	162		0.00	94,258.40									
1407-115.2	Fabr Conduct payout spool syst ** 2nd line**	64	01JUL04*	30SEP04	211		0.00	66,297.20									
1407-125	Fabricate VPI tanks & equip/components	87*	01MAR04*	30JUN04	162		0.00	63,898.00									
1407-130	Misc tools & equip	87*	01MAR04*	30JUN04	162		0.00	50,960.00									
1407-135	Fabricate Coil support structure (2)	87*	01MAR04*	30JUN04	162		0.00	40,388.00									
<b>Area Preparation</b>																	
1407-200	Decon TFTR test Cell Crane	20	26NOV03A	26NOV03A		N/R	18,432.00	18,432.00									
1407-202	Setup facility stations	55*	16APR04*	02JUL04	160		0.00	116,647.20									
1407-204	Build cleanrooms (2) locations	96	16FEB04*	29JUN04	211		0.00	108,650.00									
1407-204.2	Build cleanroom (1 add'l) **2nd line**	65*	30JUN04	30SEP04	211		0.00	54,325.00									
<b>Job: 1409 - Mod. Coil Test Stand-GETTELFINGER</b>																	
<b>Test Stand</b>																	
1409-029	Oversight/Supervision	111*	20OCT03A	02APR04	234	LOE	51,198.56	86,048.00									
1409-025	Design Test Stand	66*	20OCT03A	30JAN04A		100	25,248.00	25,248.00									
1409-026	Install Electrical	56*	01JAN04A	19MAR04	234	42	50,939.62	121,284.80									
1409-027	Cryo Line Installation	35	02FEB04*	19MAR04	234		0.00	29,589.00									
1409-028	System Testing	10	22MAR04	02APR04	234		0.00	0.00									
<b>15 - Structures</b>																	
<b>151 - Coil Support Structure</b>																	
<b>Job: 1501 - Structures Design- Heitzenroeder</b>																	
<b>PDR/PBR Task List</b>																	
1501-105	Project PDR	1	07OCT03A	07OCT03A		100	0.00	0.00									
1501-109	Prepare FY 04 WP/WAF	20	31OCT03A	31OCT03A		100	12,856.00	12,856.00									
1501-113	Prepare PBR documentation	10	04NOV03A	18NOV03A		100	6,428.00	6,428.00									
1501-117	Performance baseline review	0		18NOV03A		100	0.00	0.00									
<b>Reqmnts, Configuration, Interfaces and PDR</b>																	
1501-121	Rqmnts, Config, Interfaces, PDR (summary task)	136*	21OCT03A	30APR04	236	LOE	0.00	0.00									
1501-125	Update drawings & models based on vendor recomm	30	21OCT03A	26NOV03A		100	20,995.30	20,995.30									
1501-129	Develop a SRD design to spec	26*	02FEB04	08MAR04	265		0.00	6,267.30									
1501-133	Prepare a "scope sheet" which defines all interf	82*	03NOV03A	27FEB04	281	90	5,640.57	6,267.30									
1501-137	Prepare assembly & interface drawings for ICDs	30	23FEB04	02APR04	236		0.00	20,995.30									
1501-141	Finalize and approve all ICDs	20	05APR04	30APR04	236		0.00	6,267.30									
1501-145	Prepare assembly drawings for structure / coils	30	08MAR04	16APR04	236		0.00	20,995.30									
1501-149	Update design basis document; address size and w	10	19APR04	30APR04	236		0.00	6,267.30									
1501-157	Perform RAM & ES&H analyses document in design b	19	06APR04	30APR04	236		0.00	6,267.30									

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)							
									FY03	FY04	FY05	FY06	FY07	FY08	FY09
1501-161	Update cost and schedule	10	19APR04	30APR04	236		0.00	6,267.30							
1501-162	PDR Preparation	15	12APR04	30APR04	236		0.00	6,267.30							
1501-165	Perform PDR (jointly with conventional coils)	0		30APR04*	236		0.00	0.00							
<b>Preliminary Design Analyses</b>															
1501-169	Design Analyses (summary task)	36*	12MAR04	30APR04	236		0.00	0.00							
1501-173	Update ANSYS model of coils & structure	21	12MAR04	09APR04	236		0.00	10,548.20							
1501-177	Perform structural stress analyses	21	12MAR04	09APR04	236		0.00	10,548.20							
1501-181	Perform structural deflection analyses	21	12MAR04	09APR04	236		0.00	10,548.20							
1501-185	Check EM loads for reference scenarios	21	02APR04	30APR04	236		0.00	10,548.20							
1501-189	Perform EM combined loads & fault conditions	21	02APR04	30APR04	236		0.00	10,869.60							
1501-221	Prepare Failure Modes Assessment (FMECA)	31	19MAR04	30APR04	236		0.00	4,499.60							
<b>Structures Final Design</b>															
1501-205	Structures FDR (summary task)	144*	03MAY04	23NOV04	236		0.00	0.00							
1501-197	Update analyses based on PDR recommendations	30	03MAY04	14JUN04	236		0.00	6,106.60							
1501-201	Independent check of EM/ ANSYS analyses	30	15JUN04	27JUL04	236		0.00	6,106.60							
1501-209	Prepare final drawings	42	03MAY04*	30JUN04	254		0.00	14,522.60							
1501-213	Check & promote models / drawings	22	28JUL04	26AUG04	236		0.00	10,314.60							
1501-217	Update build to spec / sow	20	27AUG04	24SEP04	236		0.00	6,106.60							
1501-225	Update design basis document	20	27SEP04	22OCT04	236		0.00	6,243.40							
1501-229	Update cost & schedule estimates	32	11OCT04	23NOV04	236		0.00	6,277.60							
1501-233	Prepare FDR documentation / presentations	32	11OCT04	23NOV04	236		0.00	6,442.80							
1501-237	Prepare ECP for FDR	32	11OCT04	23NOV04	236		0.00	6,442.80							
1501-241	Hold FDR	0		23NOV04	236		0.00	0.00							
<b>16 - Coil Services</b>															
1501-245	Prep Spec,Solicit Bids, and Evaluate Bids	65	05MAY05	05AUG05	124		0.00	0.00							
162-036.9	Award Coil Support Assy	0		05AUG05*	119		0.00	0.00							
162-037	WBS 151Coil Support Assy Procurement [A/1]	249	08AUG05	04AUG06	119		0.00	987,052.92							
162-031	Title III engr WBS 151	249	08AUG05	04AUG06	800		0.00	153,504.56							
153.037	WBS 153 Support Structure I&C Procurement/Fab	249	03OCT05*	29SEP06	232		0.00	8,464.20							
153.015	Title III design WBS 153 local&C	249*	03OCT05*	29SEP06	761		0.00	4,648.46							
<b>161 - LN2 Distribution</b>															
191-001	Title I design WBS 161 LN2 manifolds&piping	65	01DEC05*	09MAR06	127		0.00	49,812.41							

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)	FY03 FY04 FY05 FY06 FY07 FY08 FY09															
									Gantt chart area with activity bars and resource allocation data.															
191-011	Title II design WBS 161 LN2 manifolds&pipng	60	10MAR06	02JUN06	127		0.00	99,769.73	EA/EM =80hr ; ORNLEM =281hr ;															
191-031	Title III engr WBS 161	280	05JUN06*	17JUL07	564		0.00	14,468.81	EA/EM =08hr ; ORNLEM =86hr ;															
191-037	Procurement WBS 161	130	05JUN06*	07DEC06	127		0.00	69,999.49	41=52.95\$k ;															
191-038	PDR#17	130	08DEC06*	18JUN07	584		0.00	59,974.72	41=44.36\$k ;															
191-041	LN2 Manifolds & ppg Fab/assy WBS 161	65	08DEC06*	16MAR07	127		0.00	32,986.60	EM//SM =71hr ; EM//TB =284hr ;															
191-042	PDR #17,25,3	65	08DEC06*	16MAR07	649		0.00	10,512.80	EM//SM =23hr ; EM//TB =90hr ;															
<b>162 - Electrical Leads</b>																								
132-000	PDR #17 & 25	325	30NOV05*	22MAR07	645		0.00	40,162.88	ORNLEM =20; omrlm=200															
132-001	Title I design WBS 162 Coil leads	130	01DEC05*	09JUN06	127		0.00	129,613.39	ORNLEM =869; omrlm=20															
132-011	Title II design WBS 162 Coil leads	130	12JUN06	14DEC06	127		0.00	133,039.37	ORNLEM=868; omrlm=20															
132-015	Title III design WBS 162 Coil leads	60	15DEC06*	16MAR07	649		0.00	16,105.48	ORNLEM =98; em//sm=8															
132-037	Coil Leads Procurement WBS 162	60	15DEC06*	16MAR07	127		0.00	302,334.24	41=223.6 k															
<b>163 - Coil Protection System</b>																								
163.001	Title I design WBS 163 Coil protection	65	03OCT05*	11JAN06	905		0.00	39,029.02	ORNLEM =82; omrlm=80; r///m2=80															
163.011	Title II design WBS 163 Coil protection	40	12JAN06	08MAR06	905		0.00	39,029.02	ORNLEM=82; omrlm=80; r///m2=80															
<b>17 - Cryostat and Base Support Structure</b>																								
<b>171 -Cryostat</b>																								
<b>Job:1701-Cryostat&amp;Base Sprt Strct Dsn-GETTLEFINGER</b>																								
<b>FY03 Actual Cost</b>																								
1701-001	Apr-Sept MIE Costs PPPL	54	01APR03A	30SEP03A	100		12,180.00	12,180.00	[Actual Cost Bar]															
151-001	Title I design WBS 171 cryostat shell & struct	100	03MAY04*	22SEP04	171		0.00	110,056.40	gettelfinger =488hr ; ea/dm =297hr ;															
151-002	Cryostat & Base Support Struct PDR	0		22SEP04	171		0.00	0.00	[PDR Bar]															
151-011	Title II design WBS 171 cryostat shell & struct	243*	01OCT04*	22SEP05	171		0.00	225,338.50	EA/EM =976hr ; ea/dm =593hr ;															
151-012	WBS 17 FDR	0		22SEP05	171		0.00	0.00	[FDR Bar]															
151-031	Title III engr	318	15DEC05	28MAR07	641		0.00	30,783.17	EA/EM =34hr ; ea/dm=220															
151-036.8	Prep Spec, Solicit bids, and Select Vendor	65	15DEC05*	23MAR06	124		0.00	0.00	[Prep Spec Bar]															
151-036.9	Award Cryostat Procurement	0		23MAR06	124		0.00	0.00	[Award Bar]															
151-037	Cryostat Procurement [A/1]	249	24MAR06	22MAR07	124		0.00	479,215.43	41=358.47\$k ; 35=02\$k ;															

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									FY03	FY04	FY05	FY06	FY07	FY08	FY09			
<b>172 - Base Support Structure</b>																		
<b>Job:1701-Cryost&amp;Base Sprt Strct Dsn-GETTLEFINGER</b>																		
161-001	Title I design WBS 172 base support struct	100	03MAY04*	22SEP04	171		0.00	50,507.00										
									EA/DM =170hr ;gettelfinger =202hr									
161-011	Title II design WBS 172 base support struct	249	23SEP04	22SEP05	171		0.00	54,706.46										
161-031	Title III engr WBS 172	150	01DEC05	10JUL06	819		0.00	46,597.32										
161-036.8	Prep Spec, Solicit bids, and Select Vendor	65	01DEC05*	09MAR06	124		0.00	0.00										
161-036.9	Award Machine Base&supports Procurement	0		09MAR06	124		0.00	0.00										
161-037	Machine Base&supports Procurement [A/1]	90	10MAR06	17JUL06	124		0.00	286,302.65										
									41=238\$k ; 35=02\$k ;									
<b>18 - Field Period Assembly</b>																		
<b>181 - Field Period Assembly Planning/Oversight</b>																		
<b>Job: 1801-Field Period Assly -CHRZANOWSKI (ORNL)</b>																		
<b>FY03 Actual Cost</b>																		
1801-001	Apr-Sept MIE Costs PPPL	42	01APR03A	30SEP03A		100	7,750.00	7,750.00										
1801-002	Apr-Sept MIE Costs ORNL	42	01APR03A	30SEP03A		100	53,050.00	53,050.00										
<b>Job: 1802 - FP Assy Oversight&amp;Support-VIOLA</b>																		
<b>Oversight and Supervision</b>																		
181.100	PPPL EM LOE FY04	242*	13OCT03A	30SEP04	1,259	LOE	22,745.56	77,629.90										
181.200	HP Coverage in the TFTR TC LOE FY04	171*	02FEB04*	30SEP04	1,259		0.00	115,320.00										
181.201	D-Site Shift Supervisor LOE FY04	171*	02FEB04*	30SEP04	1,259		0.00	25,920.40										
									Viola =397; Travel=\$8k									
									Health Physics Techs=1200									
									ee/em (shift supervisor)=172									
181.110	PPPL EM LOE FY05	249*	01OCT04*	30SEP05	1,010		0.00	146,064.00										
181.120	PPPL EM LOE FY06	250*	03OCT05*	02OCT06	760		0.00	448,968.79										
181.210	HP Coverage in the TFTR TC LOE FY05	249*	01OCT04*	30SEP05	1,010		0.00	128,440.00										
181.220	HP Coverage in the TFTR TC LOE FY06	250*	03OCT05*	02OCT06	760		0.00	130,690.04										
181.310	ORNL EM LOE FY05	249*	01OCT04*	30SEP05	1,010		0.00	119,316.89										
181.320	ORNL EM LOE FY06	250*	03OCT05*	02OCT06	760		0.00	122,771.80										
									ea/em=800; travel=\$8k									
									ea/em=2589 travel=\$8k									
									sh/tb=1300									
									sh/tb=1300									
									ornlem=847									
									ornlem=847									
<b>182 - TFTR Test Cell Area preparations</b>																		
721.010	Area preparations	90	03OCT05*	15FEB06	124		0.00	92,942.40										
									em/sm=144; em/tb=960									
<b>183 - Receive,Inspect, and Test Coils</b>																		
722.010	Receive/Inspect TF & Mod Coils	249*	03OCT05*	29SEP06	761		0.00	77,365.60										
									em/sm=268; em/tb=596									

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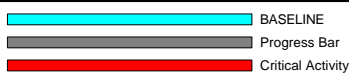
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)							
									FY03	FY04	FY05	FY06	FY07	FY08	FY09
<b>184 - Receive, Inspect, and Test VV</b>															
P1-180	Rec'v VV,Attach clng tubes &Insul to 1st Period	39	13MAR06	04MAY06	107		0.00	95,908.80							
P1-180A	cd-4 350c increment	109	13MAR06	14AUG06	794		0.00	38,544.00							
P2-180	Rec'v VV,Attach clng tubes &Insul to 2nd Period	39	05MAY06	29JUN06	107		0.00	95,908.80							
P3-180	Rec'v VV,Attach clng tubes &Insul to 3rd Period	39	30JUN06*	24AUG06	107		0.00	95,908.80							
<b>185 - Assemble Field Periods</b>															
<b>1808 - TF/Mod Coil Sub-Assembly</b>															
<b>Modular Coil Sub-assembly</b>															
184-200	Mount/align right mod coil in fixture-Period #1	15	31MAR06	20APR06	121		0.00	47,404.80							
184-205	Mount/align left mod coil in fixture-Period #1	12	27APR06	12MAY06	115		0.00	38,980.80							
184-210	Mount/align right mod coil in fixture-Period #2	12	24MAY06	09JUN06	123		0.00	38,980.80							
184-215	Mount/align left mod coil in fixture-Period #2	12	20JUN06	06JUL06	115		0.00	38,980.80							
184-220	Mount/align right mod coil in fixture-Period #3	12	18JUL06	02AUG06	123		0.00	38,980.80							
184-225	Mount/align left mod coil in fixture-Period #3	12	11AUG06	28AUG06	115		0.00	38,980.80							
P1-000	PDR # 19 MCWF fitup	94	21APR06	01SEP06	780		0.00	16,428.30							
<b>TF Coil Sub-assembly</b>															
184-100	Assemble 3 TF coils&structure -Right -Period #1	10	17FEB06	02MAR06	176		0.00	34,504.00							
184-105	Assemble 3 TF coils&structure -Left -Period #1	10	03MAR06	16MAR06	176		0.00	34,504.00							
184-110	Assemble 3 TF coils&structure -Right -Period #2	10	17MAR06	30MAR06	193		0.00	34,504.00							
184-115	Assemble 3 TF coils&structure -Left -Period #2	10	01MAY06	12MAY06	172		0.00	34,504.00							
184-120	Assemble 3 TF coils&structure -Right -Period #3	10	26JUL06	08AUG06	139		0.00	34,504.00							
184-125	Assemble 3 TF coils&structure -Left -Period #3	10	21SEP06	04OCT06	109		0.00	35,303.20							
<b>Job:1810 - Field Period Assembly</b>															
<b>Period 1</b>															
725.001	Assemble Field Period #1 (summary task)	92*	05MAY06	14SEP06	142		0.00	290,396.00							
P1-181	Assemble 1st. Field Period - coils/VV	37	05MAY06	27JUN06	111		0.00	0.00							
P1-191	Position and weld port assemblies	15	28JUN06	19JUL06	142		0.00	0.00							
P1-201	Bakeout vessel segment to 150 degrees C	6	20JUL06	27JUL06	142		0.00	0.00							
P1-211	vacuum leak check &Ext Trim coil instl	25	28JUL06	31AUG06	142		0.00	0.00							
P1-221	Prepare field period for shipment	5	01SEP06	08SEP06	142		0.00	0.00							
P1-231	Ship 1st. Field period	3	11SEP06	13SEP06	142		0.00	0.00							
P1-241	Field period 1 ready for installation	1	14SEP06	14SEP06	142		0.00	0.00							
<b>Period 2</b>															
725.101	Assemble Field Period #2 (summary task)	91*	30JUN06	07NOV06	124		0.00	297,048.33							
P2-181	Assemble 2nd. Field Period- coils/ VV	37	30JUN06	22AUG06	109		0.00	0.00							

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									FY03	FY04	FY05	FY06	FY07	FY08	FY09									
P2-191	Position and weld port assemblies	15	23AUG06	13SEP06	124		0.00	0.00																
P2-201	Bakeout vessel segment to 150 degrees C	6	14SEP06	21SEP06	124		0.00	0.00																
P2-211	vacuum leak check &Ext Trim coil instl	25	22SEP06	26OCT06	124		0.00	0.00																
P2-221	Prepare field period for shipment	5	27OCT06	02NOV06	124		0.00	0.00																
P2-231	Ship 2nd. Field period	3	03NOV06	07NOV06	124		0.00	0.00																
P2-241	Field Period 2 ready for installation	1	08NOV06	08NOV06	124		0.00	0.00																
<b>Period 3</b>																								
725.201	Assemble Field Period #3 (summary task)	90*	25AUG06	10JAN07	107		0.00	306,588.80																
P3-181	Assemble 3rd. Field Period - coils/ VV	37	25AUG06	17OCT06	107		0.00	0.00																
P3-191	Position and weld port assemblies	15	18OCT06	07NOV06	107		0.00	0.00																
P3-201	Bakeout vessel segment to 150 degrees C	5	08NOV06	14NOV06	107		0.00	0.00																
P3-211	vacuum leak check &Ext Trim coil instl	25	15NOV06	21DEC06	107		0.00	0.00																
P3-221	Prepare field period for shipment	5	22DEC06	05JAN07	107		0.00	0.00																
P3-231	Ship 3rd. Field Period	3	08JAN07	10JAN07	107		0.00	0.00																
P3-241	3rd. Period ready for installation	1	11JAN07	11JAN07	107		0.00	0.00																
<b>186 - Tooling Design and Fabrication</b>																								
<b>Job: 1803- FP Assy Tooling/Constructability-COLE</b>																								
<b>Tooling Design &amp; Fabrication</b>																								
713A.010	Design Tooling	171*	02FEB04	30SEP04	268	LOE	0.00	324,951.05																
713A.010A	Requirements & Constructability Peer Review	0		30MAR04*	1,388		0.00	0.00																
713.010B	Tooling & Constructability FDR	0		30SEP04	268		0.00	0.00																
713A.032	Fabricate-TF Coil sub-assy frame/manipulator	195	18MAR05*	22DEC05	210		0.00	10,366.40																
713A.030	Fabricate-VV supporting fixture (3)	195	20APR05*	01FEB06	134		0.00	97,300.00																
713A.031	Fabricate-Modular Coil sub-assy frame/manip/fixt	195	17JUN05*	30MAR06	121		0.00	209,310.73																
713A.033	Fabricate-Full FP support fixture (3)	195	07JUL05*	18APR06	123		0.00	9,757.00																
713A.034	Fabricate-VV port welding fixtures	195	29JUL05*	10MAY06	175		0.00	13,020.00																
713A.040	General procurements	498*	01OCT04*	29SEP06	761		0.00	25,970.00																
713A.050	Welding tools, materials & equip	498*	01OCT04*	29SEP06	761		0.00	58,432.50																
713A.020	Lab Fab/Assy/Installation	403*	25FEB05*	02OCT06	760		0.00	349,167.95																
713A.060	Instl He gas piping from NSTX to D-site tc	85	03OCT05*	08FEB06	925		0.00	46,540.00																
<b>Tooling R&amp;D</b>																								
713A.011	Tooling R&D-Design VV/MCWF Mockups inc pdr#20	84*	01DEC03A	05APR04	1,229	10	3,873.57	38,735.69																
713A.012	Tooling R&D-Procure VV & MCWF Mockups [A/9]	105	06APR04	01SEP04	1,229		0.00	157,976.00																
713A.013	Tooling R&D-Inspection & assy trails	50	02SEP04	11NOV04	1,229		0.00	46,979.36																

Run Date 16FEB04 08:03

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 First Plasma May 2008


February 1st 2004 Status

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)									
									FY03	FY04	FY05	FY06	FY07	FY08	FY09		
<b>187 - Measurement Systems</b>																	
<b>Job: 1804-FP Assy Measurement Sys-RAFTOPOULOS</b>																	
<b>Metrology</b>																	
740.010	Final Design Measurement systems	181*	19JAN04A	30SEP04	1,259		3,818.23	69,422.40									
740.011	3-D Scanner/Faro Arm FDR	0		30JAN04A			0.00	0.00									
740.015	Prepare Requisition 3-D scanner & Romer Arm	10	30JAN04A	30JAN04A			0.00	0.00									
740.030	Deliver 3-D Scanner & Romer Arm	1	30MAR04*	30MAR04	227		0.00	171,990.00									
740.031	Metrology Software Review	0		30JAN04A			0.00	0.00									
740.032	Prepare Met Software Requisition	10	30JAN04A	30JAN04A			0.00	0.00									
740.035	Deliver Metrology Software	53*	02FEB04	14APR04	1,377		0.00	57,266.30									
740.041	Laser based GPS Sys Review	0		27APR04*	1,308		0.00	0.00									
740.042	Prepare GPS Sys Requisition	10	28APR04	11MAY04	1,308		0.00	0.00									
740.043	Bid,Evaluate & Award GPS sys	20	12MAY04	09JUN04	1,308		0.00	0.00									
740.044	Deliver GPS sys	30	10JUN04	22JUL04	1,308		0.00	127,400.00									
740.020	Faculty Prep	95	03OCT05*	22FEB06	162		0.00	60,384.40									
740.045	Purchase- second Faro Arm (was under WBS 14)	102	03MAY04*	24SEP04	1,263		0.00	70,070.00									
740.050	Purchase- targets [A/9]	130	01JUL05*	12JAN06	944		0.00	32,300.00									
<b>19 - Stellarator Core Management and Integration</b>																	
<b>191 - Stellarator Core Management &amp; Oversight</b>																	
<b>Job: 1901 - Stellarator Core Mngtt&amp;Integr-NELSON</b>																	
<b>FY03 Actual Cost</b>																	
1901-002	Apr-Sept MIE Costs ORNL	248	01APR03A	30SEP03A		100	187,090.00	187,090.00									
<b>1914</b>																	
191-4	LOE-FY04 WBS 191-4 Management Activities	250*	01OCT03A	30SEP04	1,259	LOE	46,041.15	145,699.85									
0191-91	LOE-FY06 WBS 191 1 mo SO	22	01OCT07*	30OCT07	346	LOE	0.00	20,250.00									
0191-92	LOE-FY06 WBS 191 1 mo SO	21	31OCT07*	28NOV07	346	LOE	0.00	20,250.00									
0191-93	LOE-FY06 WBS 191 1 mo SO	15	03DEC07*	21DEC07	346	LOE	0.00	20,250.00									
0191-94	LOE-FY06 WBS 191 1 mo SO	22	01JAN08*	30JAN08	346	LOE	0.00	20,250.00									
0191-95	LOE-FY06 WBS 191 1 mo SO	22	31JAN08*	29FEB08	346	LOE	0.00	20,250.00									
0191-96	LOE-FY06 WBS 191 1 mo SO	22	03MAR08*	01APR08	346	LOE	0.00	20,250.00									
0191-97	LOE-FY06 WBS 191 1 mo SO	21	02APR08*	30APR08	346	LOE	0.00	20,250.00									
0191-98	LOE-FY06 WBS 191 1 mo SO	21	01MAY08*	30MAY08	346	LOE	0.00	20,250.00									
0191-5	LOE-FY05 WBS 191	249*	01OCT04*	30SEP05	1,010	LOE	0.00	185,763.59									
0191-6	LOE-FY06 WBS 191	250*	03OCT05*	02OCT06	526	LOE	0.00	190,877.89									

Run Date	16FEB04 08:03	 BASELINE  Progress Bar  Critical Activity	MD21	NCSX Baseline (ECP5) First Plasma May 2008	Sheet 23 of 47	February 1st 2004 Status
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)								
									FY03	FY04	FY05	FY06	FY07	FY08	FY09	
0191-6X	LOE-FY07 WBS 191	234	03OCT06*	10SEP07	526	LOE	0.00	199,716.12								
<b>192 - Stellarator Core Integration &amp; Analysis</b>																
<b>Job: 1901 - Stellarator Core Mngtt&amp;Integr-NELSON</b>																
<b>FY03 Actual Cost</b>																
1901-003	Apr-Sept MIE Costs PPPL	248	01APR03A	30SEP03A		100	67,070.00	67,070.00								
<b>1914</b>																
192-4	LOE-FY05 WBS 192-4 Design Integration Activities	250*	01OCT03A	30SEP04	1,259	LOE	75,005.15	237,358.09								
192-4.1	Self consistent models/dwgs f/ Mod Coil & VV FDR	0		14APR04*	1,377		0.00	0.00								
192-4.2	Self consistent models/dwgs Conv Coils&sprt strc	0		01JUN04*	1,344		0.00	0.00								
192-4.4	Stellarator Core Assy dwgs & assy sequence	0		30SEP04*	1,259		0.00	0.00								
192-5	LOE-FY05 WBS 192-5 VV & Coil Services Integr	186*	01OCT03A	30JUN04	1,323	LOE	15,587.58	36,676.65								
192-5.1	VV Helium Line Models	0		01APR04*	1,386		0.00	0.00								
192-5.2	Mod Coil LN2 Lines Layouts	0		01APR04*	1,386		0.00	0.00								
192-5.3	Mod Coil Leads Layouts	0		01APR04*	1,386		0.00	0.00								
192-5.4	PF Coil Leads & Services Layouts	0		15JUN04*	1,334		0.00	0.00								
192-5.5	TF Coil leads & Services Layouts	0		15JUN04*	1,334		0.00	0.00								
192-5.6	External Trim Coil Leads /services Layouts	0		15JUN04*	1,334		0.00	0.00								
192-6	LOE-FY05 WBS 192-6 Integrated Analysis	250*	01OCT03A	30SEP04	1,259	LOE	13,914.05	44,031.80								
192-6.01	Document coil tolerance and trim coil requiremen	31	08MAR04*	19APR04	95		0.00	19,284.00								
192-6.02	Check critical coil tolerance calculations.	20	20APR04	17MAY04	95		0.00	10,295.20								
192-6.03	Invest FARO arm to deter mag field distrib from	26	02FEB04*	08MAR04	191		0.00	25,738.00								
192-6.04	Calc impact misalignments on mutual inductances	30	09MAR04	19APR04	191		0.00	25,738.00								
192-6.05	Determine reqd process for assy tolerances	58	20APR04	12JUL04	191		0.00	30,885.60								
192-6.06	Coil positions to minimize islands.	63	13JUL04	08OCT04	191		0.00	62,328.00								
192-6.07	Time constant calcs using SPARK	11	19APR04*	03MAY04	105		0.00	6,428.00								
192-6.08	Indep check time constant calcs using EDDYCUFF	20	17MAY04*	14JUN04	1,359		0.00	10,295.20								
192-6.09	Revised VV geometry	6	02FEB04*	09FEB04	1,448		0.00	3,214.00								
192-6.10	MC interf during assly, geometry, assly trajecto	31	02FEB04*	15MAR04	1,423		0.00	34,073.60								
192-6.11	Range of motion reqts for Assly MC fixture.	20	03MAY04*	28MAY04	1,369		0.00	18,003.60								
192-6.12	Analysis plan seismic analysis of the stellr co	6	09FEB04*	16FEB04	1,443		0.00	6,428.00								
192-6.1	Final Analysis coil geometry to field error	0		02FEB04*	1,429		0.00	0.00								
192-6.2	Final Mod Coil Trajectories	0		01MAR04*	1,409		0.00	0.00								
192-6.3	Best fit for mod coil assy on winding measuremen	0		30SEP04*	1,259		0.00	0.00								
192-6.5	Stellarator Core Assy Design criteria	0		02FEB04*	1,429		0.00	0.00								
192-6.6	Stellarator Core Materials Database	0		01MAR04*	1,409		0.00	0.00								

Run Date 16FEB04 08:03


  
 BASELINE  
 Progress Bar  
 Critical Activity

MD21

NCSX Baseline (ECP5)  
First Plasma May 2008


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February 1st 2004 Status



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)							
									FY03	FY04	FY05	FY06	FY07	FY08	FY09
0192-91	LOE-F1 mo SO	22	01OCT07*	30OCT07	338	LOE	0.00	16,018.04							
0192-92	LOE-F1 mo SO	22	31OCT07*	03DEC07	338	LOE	0.00	16,018.04							omlem=100; omi35=.5
0192-93	LOE-F1 mo SO	22	04DEC07*	10JAN08	338	LOE	0.00	16,018.04							omlem=100; omi35=.5
0192-94	LOE-F1 mo SO	22	11JAN08*	11FEB08	338	LOE	0.00	16,018.04							omlem=100; omi35=.5
0192-95	LOE-F1 mo SO	22	12FEB08*	12MAR08	338	LOE	0.00	16,018.04							omlem=100; omi35=.5
0192-96	LOE-F1 mo SO	22	13MAR08*	11APR08	338	LOE	0.00	16,018.04							omlem=100; omi35=.5
0192-97	LOE-F1 mo SO	21	14APR08*	12MAY08	338	LOE	0.00	16,018.04							omlem=100; omi35=.5
0192-98	LOE-F1 mo SO	21	13MAY08*	11JUN08	338	LOE	0.00	16,018.04							omlem=100; omi35=.5
0192-5	LOE-FY05 WBS 192	249*	01OCT04*	30SEP05	1,010	LOE	0.00	485,136.72							ea/em=962; omlem 2260-200=2060; omim&s=\$29.95 ;35= 5 k
0192-6	LOE-FY06 WBS 192	250	03OCT05*	02OCT06	518	LOE	0.00	152,610.82							ea/em=0; omlem=1184-384=800 omim&s=\$29.95 35= 5 k
0192-6X	LOE-FY06 WBS 192	242	03OCT06*	20SEP07	518	LOE	0.00	135,038.20							ea/em=0; omlem=872+291-563=600 omim&s=\$29.95 35= 5 k
<b>2 - Plasma Heating, Fueling &amp; Vac Systems</b>															
<b>21 - Fueling Systems</b>															
21-10	Eng. Work Planning and Design	65	03OCT05*	05JAN06	238		0.00	13,512.00							EM//EM =80hr ;
21-15	Design Gas Handling Hardware	65	06JAN06	06APR06	238		0.00	6,606.00							EM//SM =60hr ;
21-20	Design PLC Controls	65	06JAN06*	06APR06	238		0.00	17,968.00							EE//SM =160hr ;
21-25	Electrical Drafting for pumping system	65	06JAN06*	06APR06	238		0.00	13,200.00							EA//DM =120hr ;
21-30	Drafting	65	06JAN06*	06APR06	238		0.00	8,800.00							EA//DM =80hr ;
21-35	Eng. Work Planning and Design during fab	65	02OCT06*	04JAN07	114		0.00	3,638.00							EM//EM =20hr ;
21-40	Fabrication/Install Hardware	65	02OCT06*	04JAN07	114		0.00	7,116.00							EM//SM =60hr ;
21-45	Fabrication/installation	65	02OCT06*	04JAN07	114		0.00	53,477.20							EM//SM =150hr ; EM//TB =200hr ; 41=14\$k ;
21-55	Install PLC Controls	65	02OCT06*	04JAN07	114		0.00	9,672.00							EE//SM =80hr ;
21-60	Integrated Systems Testing/Eng	65	02OCT06*	04JAN07	114		0.00	3,638.00							EM//EM =20hr ;
21-65	Integrated Systems Testing/Tech Support	45	05JAN07*	08MAR07	114		0.00	2,418.00							EE//SM =20hr ;
<b>22 - Torus Vacuum Pumping Systems</b>															
Job: 2001-VPS, Gas & Cond Sys Oversight-BLANCHARD															
FY03 Actual Cost															
2001-001	Apr-May MIE Cost	43*	01APR03A	30MAY03A		100	35,300.00	35,300.00							81=35\$k

Run Date 16FEB04 08:03


  
 BASELINE  
 Progress Bar  
 Critical Activity

MD21

**NCSX Baseline**  
**(ECP5)**  
**First Plasma May 2008**

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**February 1st 2004**  
**Status**

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)	FY03											
									FY03	FY04	FY05	FY06	FY07	FY08	FY09					
2001-100	PDR Support	164*	01JUN03A	30SEP03A		LOE	24,896.00	24,896.00	blanchard/provost fy03											
22-25	Eng. Work Planning and Design	65	03OCT05*	05JAN06	138		0.00	25,698.00	EM/EM =100hr ; EM/SM =80hr ;											
22-30	Design PLC based control system	65	06JAN06*	06APR06	203		0.00	35,936.00	EE/SM =320hr ;											
22-35	Electrical Drafting for pumping system	65	06JAN06*	06APR06	203		0.00	23,100.00	EA/DM =210hr ;											
22-40	Drafting	65	06JAN06*	06APR06	138		0.00	17,600.00	EA/DM =160hr ;											
22-45	Eng. Work Planning and Design during fab	65	07APR06*	10JUL06	138		0.00	15,201.00	EM/EM =90hr ;											
22-50	Perform maint. & repair of pmpg sys	65	07APR06*	10JUL06	138		0.00	8,808.00	EM/SM =80hr ;											
22-55	Repair and Calibration of vac instrumentation	100	11AUG06*	03JAN07	115		0.00	9,243.20	EM/SM =80hr ;											
22-60	Fabrication/installation	100	11AUG06*	03JAN07	115		0.00	114,721.68	EM/SM =450hr ; EM/TB =380hr ; 41=23\$K ;											
22-65	Fab PLC conrols	100	11AUG06*	03JAN07	115		0.00	61,571.20	EE/SM =160hr ; 41=32\$K ;											
22-70	Integrated Systems Testing/Eng	45	04JAN07*	07MAR07	115		0.00	7,276.00	EM/EM =40hr ;											
22-75	Integrated Systems Testing/Tech Support	45	04JAN07*	07MAR07	115		0.00	4,836.00	EE/SM =40hr ;											

## 25 - Neutral Beam Injection System

### 250 - Neutral Beam Injection System

#### Job: 2501 - Neutral Beam Refurbishment-STEVENSON

##### FY03 Actual Cost

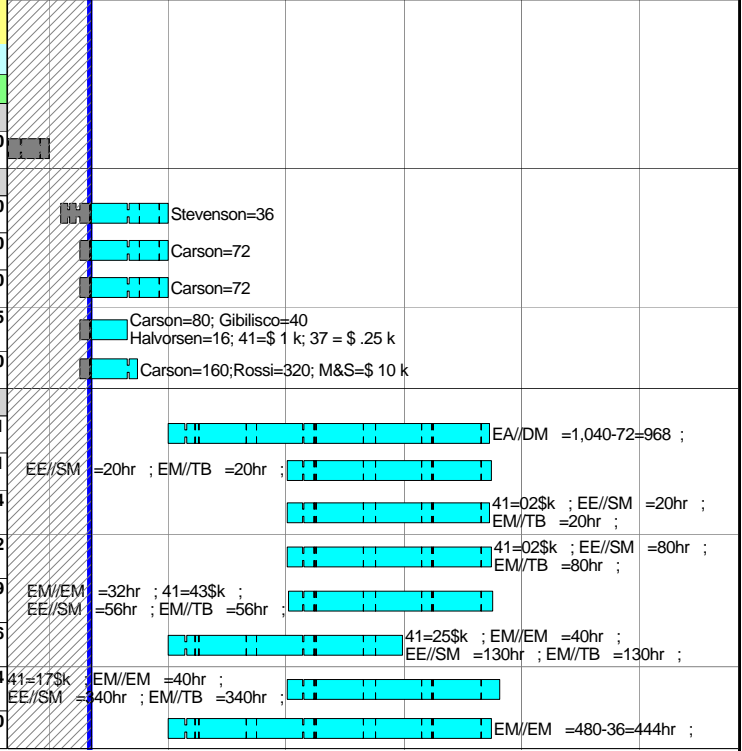
2501-001	Apr-Sept MIE Cost	43*	01APR03A	30SEP03A		100	146,310.00	146,310.00
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##### FY04 Work Plan

2501-015	Design & Work Planning	227*	03NOV03A	30SEP04	1,259	50	2,712.60	5,425.20
2501-020	Layout & Routing	192*	02JAN04A	30SEP04	1,259	30	2,319.84	7,732.80
2501-025	Systems Interfaces	192*	02JAN04A	30SEP04	1,259	10	773.28	7,732.80
2501-030	Power System Local testing	106*	01JAN04A	28MAY04	1,345	75	11,854.09	15,805.45
2501-035	Controls Development	128*	02JAN04A	30JUN04	1,323	20	12,858.40	64,292.00

##### Refurbishment

25-100	6) Drafting Support	695*	01OCT04*	25JUN07	588		0.00	108,007.21
25-105	7) Refurbish sources	441	03OCT05*	26JUN07	587		0.00	3,977.51
25-110	8) Fabricate and install new filaments	438	03OCT05*	21JUN07	590		0.00	6,625.84
25-115	9) Refurbish calorimeters as needed	441	03OCT05*	26JUN07	587		0.00	18,559.92
25-130	12) Dsn,Fan,Instl NBI vacuum system	438	13OCT05*	03JUL07	582		0.00	73,736.99
25-145	15)Upgrade/Calibr of telemetry, ptical links etc	509*	01OCT04*	29SEP06	774		0.00	63,991.66
25-155	17) Fab/Instl Front Box Nitrogen Cryopanel.	460	03OCT05*	23JUL07	568		0.00	97,269.14
25-175	21) Sys Engr & Work Planning Procedures	699*	01OCT04*	29JUN07	584		0.00	76,107.00



Run Date 16FEB04 08:03



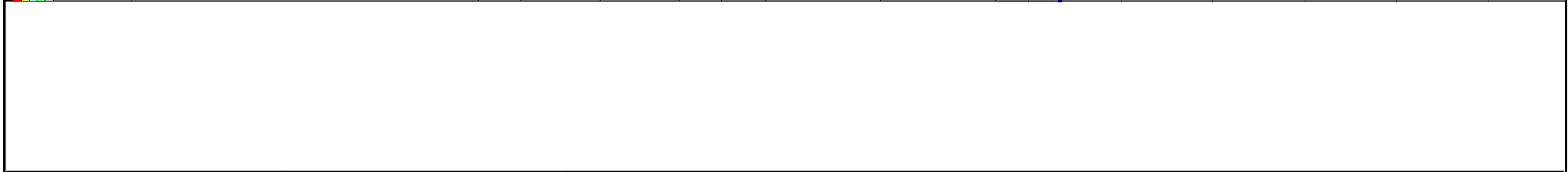
MD21

NCSX Baseline (ECP5)  
First Plasma May 2008

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February 1st 2004  
Status

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)							
									FY03	FY04	FY05	FY06	FY07	FY08	FY09
<b>Re-Install Beamline</b>															
25-180	31) Work Planning Procedures	520	03JUN05*	18JUN07	593		0.00	69,186.92							
25-185	32) EAD analysis of platform support capability	104	02OCT06*	28FEB07	670		0.00	3,638.00							
25-190	33) Fabr BL alignment measur fixture,	104	02OCT06*	28FEB07	670		0.00	28,462.00							
25-195	34) Fabr new bellows/electrical break	104	02OCT06*	28FEB07	670		0.00	16,592.00							
25-200	35) Perform alignment measurements	104	02OCT06*	28FEB07	670		0.00	829.60							
25-205	36) Prepare platform for base plate	104	02OCT06*	28FEB07	670		0.00	1,659.20							
25-210	37) Relocate base plate to NCSX location	104	02OCT06*	28FEB07	670		0.00	6,636.80							
25-215	38) Lift NB from Refurb location to NCSX locatio	104	04OCT06*	02MAR07	668		0.00	25,717.60							
25-220	39) Enclose platform around base plate	190	29SEP06*	28JUN07	585		0.00	3,317.16							
<b>Re-Install Cables</b>															
25-225	Cabling-Design & WP Procedures	255	04SEP06*	31AUG07	539		0.00	28,940.86							
25-230	Cabling-Fabr and Install new Junction Box	190	02OCT06*	29JUN07	584		0.00	16,592.00							
25-235	Cabling-Hi-potting cable run and fixing problems	190	02OCT06*	29JUN07	584		0.00	8,296.00							
25-240	Cabling-Install Cable Trays	190	02OCT06*	29JUN07	584		0.00	33,184.00							
25-245	Cabling-Pull cables Arc Room to PVC Junction Box	190	02OCT06*	29JUN07	584		0.00	74,480.00							
25-250	Cabling- M&S f/ trays, fixtures, materials	190	02OCT06*	29JUN07	584		0.00	35,152.00							
<b>Beamline Connections</b>															
25-255	Install weld cables Juncton Box to Ion Source.	170	02OCT06*	01JUN07	604		0.00	9,107.20							
25-260	Connect bBL to foreline and exhaust manifold.	170	02OCT06*	01JUN07	604		0.00	4,129.60							
25-265	New PLC. Test system after installation.	170	02OCT06*	01JUN07	604		0.00	3,318.40							
25-270	Connect BL to new manifold & test	170	02OCT06*	01JUN07	604		0.00	3,318.40							
25-275	Connect beamline to new manifold & test.	170	02OCT06*	01JUN07	604		0.00	3,318.40							
25-280	Connect beamline to new manifold and test	170	02OCT06*	01JUN07	604		0.00	1,659.20							
25-285	Install Water System	170	02OCT06*	01JUN07	604		0.00	27,727.20							
25-290	Fab & Install Water Cooled Aperture	170	02OCT06*	01JUN07	604		0.00	19,609.60							
25-295	New PLC for water sys & test	170	02OCT06*	01JUN07	604		0.00	1,659.20							
25-300	Diag Sys-Fab/install new cables	170	02OCT06*	01JUN07	604		0.00	1,659.20							
25-310	Drafting Labor Support	298	03APR06*	01JUN07	604		0.00	55,127.52							

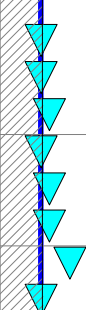


Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)							
									FY03	FY04	FY05	FY06	FY07	FY08	FY09
<b>3 - Diagnostics</b>															
<b>31 - Magnetic Diagnostics</b>															
310-010	Design Mag Diagnostics	94	03OCT05*	21FEB06	129		0.00	44,460.00							
310-015	Fabricate & Install Magnetics on Vessel	108	24MAR06	24AUG06	107		0.00	140,205.50							
310-020	Design other ex-vessel sensors	85	25JUL05*	21NOV05	116		0.00	154,537.34							
310-025	Fab & Install other ex-vessel sensors on coils	105	01DEC05	04MAY06	111		0.00	78,406.05							
310-030	Design & FabMagnetic integrators	94	22NOV05*	12APR06	127		0.00	36,491.65							
<b>36 - Edge and Divertor Diagnostics</b>															
361-001	Design Visible Camera sys	130	03OCT05*	12APR06	208		0.00	11,096.00							
361-015	Fab/Assy/Installation Visible Camera	130	28AUG06*	08MAR07	113		0.00	88,191.41							
<b>38 - Electron Beam (EB) Mapping</b>															
380-010	Designe-Beam Probe,Fluor. Screen	88	03OCT05*	13FEB06	278		0.00	42,118.00							
380-015	Fab & Install Beam probe	102	06OCT06	08MAR07	113		0.00	249,952.00							
<b>39 - Diagnostics Integration</b>															
<b>390 - Diagnostics Integration</b>															
<b>Job: 3901 - Diagnostics sys Integration-JOHNSON</b>															
390-100	Finalize VV ports (number,size,locations)	0		30JAN04*	1,430		0.00	0.00							
390-110	Resolve port interferences.Final port config	0		30JAN04*	1,430		0.00	0.00							
390-120	Update port map&revise diag port assignments	0		01MAR04*	1,409		0.00	0.00							
390-130	Rvw status of existing ICD's w/VV & Mod Coils	0		30JAN04*	1,430		0.00	0.00							
390-140	Write ICD's-Define external space for diagnostic	0		01MAR04*	1,409		0.00	0.00							
390-150	Write ICD's-Define space f/racks in cntrl rm	0		01MAR04*	1,409		0.00	0.00							
390-160	Start recruiting diag team at HTPD conference	0		30APR04*	1,365		0.00	0.00							
390-170	Develop space envelopes for SXR	0		30JAN04*	1,430		0.00	0.00							

R//RM2 =108hr ; EE//EM =176hr ;  
 EE//EM =215hr ; EE//SM =725hr ;  
 41=19\$K ;  
 R//RM2 =20hr ; EE//EM =580hr ;  
 EA/DM =560hr ;  
 EE//EM =72hr ; EM//SM =472hr ;  
 41=12\$K ;  
 41=11\$K ; EE//EM =40hr ;  
 EE//SM =127hr ; EE//TB =24hr ;

R//RM2 =28hr ; EM//EM =40hr ;  
 R//RM2 =98hr ; EM//EM =20hr ;  
 EM//SM =96hr ; 41=43\$K ;

R//RM2 =70hr ; EM//EM =120hr ;  
 EA/DM =100hr ;  
 R//RM2 =160hr ; EE//EM =60hr ;  
 EM//EM =160hr ; EE//SM =80hr ;  
 EM//SM =170hr ; 41=114\$K ;



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									FY03	FY04	FY05	FY06	FY07	FY08	FY09	
390-180	Hold CDR's co-wound mag sensors&ext saddle loops	0		30SEP04*	1,259		0.00	0.00								
<b>Job: 3901 - Diagnostics sys Integration-JOHNSON</b>																
<b>FY03 Actual Cost</b>																
390-001	LOE Support FY03	151*	01APR03A	30SEP03A		100	155,450.00	155,450.00								
390-010	LOE Support FY04	250*	01OCT03A	30SEP04	1,259	LOE	24,655.43	78,023.50								
390-015	LOE Support FY05	249*	01OCT04*	30SEP05	1,010		0.00	183,996.90								
390-020	LOE Support FY06	249*	03OCT05*	29SEP06	761		0.00	187,148.40								
390-025	LOE Support FY07	122*	02OCT06*	30MAR07	469		0.00	99,039.11								
390-901	LOE Support FY07 1mo SO	22	02APR07	01MAY07	469		0.00	17,760.40								
390-902	LOE Support FY07 1mo SO	22	02MAY07	01JUN07	469		0.00	17,760.40								
390-903	LOE Support FY07 1mo SO	21	04JUN07	02JUL07	469		0.00	17,760.40								
390-904	LOE Support FY07 1mo SO	21	03JUL07	01AUG07	469		0.00	17,760.40								
390-905	LOE Support FY07 1mo SO	21	02AUG07	30AUG07	469		0.00	17,760.40								
390-906	LOE Support FY07 1mo SO	21	31AUG07	01OCT07	469		0.00	17,793.33								
390-907	LOE Support FY07 1mo SO	21	02OCT07	30OCT07	469		0.00	18,451.90								
390-908	LOE Support FY07 1mo SO	21	31OCT07	28NOV07	469		0.00	18,451.90								
<b>4 - Electrical Power Systems</b>																
<b>41 - AC Power</b>																
<b>411 - Auxliary AC Power Systems</b>																
<b>Job: 4101 - AC Power-RAMAKRISHNAN</b>																
<b>Auxiliary AC Power Systems</b>																
4101-100	Prepare Preliminary One line diagram	171*	02FEB04*	30SEP04	1,259		0.00	9,440.80								
411-1-2	fEx-Test Cell AC Power Dist-Dsn	92*	01OCT04*	18FEB05	385		0.00	19,761.90								
411-1-4	Ex-Test Cell AC Power Dist-Procure	185*	07OCT05*	06JUL06	279		0.00	11,745.00								
411-1-6	Ex-Test Cell AC Power Dist-Install	240	03OCT05*	18SEP06	228		0.00	51,769.40								
411-1-8	Ex-Test Cell AC Power Dist-Commission	100	02OCT06*	28FEB07	119		0.00	46,568.00								
411-2-2	Grounding-Dsn	220*	01OCT04*	19AUG05	225		0.00	29,688.00								
411-2-4	Grounding-Procure	107	03OCT05*	10MAR06	261		0.00	6,525.00								

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									FY03	FY04	FY05	FY06	FY07	FY08	FY09					
411-2-6	Grounding-Install	172	13OCT05*	22JUN06	188		0.00	55,912.00									EE//EM =80hr ; EE//SM =160hr ; EE//TB =320hr ;			
411-2-8	Grounding-Commission	100	02OCT06*	28FEB07	119		0.00	18,448.00									EE//EM =40hr ; EE//SM =40hr ; EE//TB =80hr ;			
411-3-2	Test Cell AC Power Distr-Dsn	220*	01OCT04*	19AUG05	140		0.00	68,024.00									EA//DM =400hr ; EE//EM =160hr ;			
411-3-4	Test Cell AC Power Distr-Procure	150	29SEP05*	08MAY06	113		0.00	69,612.50									41=53\$k ;			
411-3-6	Test Cell AC Power Distr-Install	207	09MAY06*	08MAR07	113		0.00	61,951.46									EE//EM =80hr ; EE//SM =80hr ; EE//TB =480hr ;			
411-3-8	Test Cell AC Power Distr-Commission	121	11SEP06*	08MAR07	113		0.00	31,186.72									EE//EM =48hr ; EE//SM =80hr ; EE//TB =160hr ;			
411-4-2	Standby Power for Cryo Sys -Dsn	65	01MAR06*	31MAY06	295		0.00	15,100.00									EA//DM =80hr ; EE//EM =40hr ;			
411-4-4	Standby Power for Cryo Sys -Procure	130	02OCT06*	11APR07	210		0.00	21,632.00									41=16\$k ;			
411-4-6	Standby Power for Cryo Sys -Install	65	12APR07	13JUL07	210		0.00	51,968.00									EE//EM =80hr ; EE//SM =120hr ; EE//TB =280hr ;			
<b>412 - Experimental AC Power Systems</b>																				
412-1-2	D-site Pulsed AC Power Distr-Dsn	253	01OCT04*	06OCT05	189		0.00	10,522.84									EA//DM =40hr ; EE//EM =40hr ;			
412-1-4	D-site Pulsed AC Power Distr-Procure	179	13OCT05*	03JUL06	251		0.00	6,525.00									41=05\$k ;			
412-1-6	D-site Pulsed AC Power Distr-Install	245	07OCT05	29SEP06	189		0.00	16,043.20									EE//EM =16hr ; EE//SM =64hr ; EE//TB =80hr ;			
412-1-8	D-site Pulsed AC Power Distr-Commission	121	03MAY06*	23OCT06	173		0.00	9,741.47									EE//EM =24hr ; EE//SM =24hr ; EE//TB =40hr ;			
<b>42 - AC/DC Converters</b>																				
<b>422 - D-Site AC/DC Converters</b>																				
422-1-8	Transrex power supplies Reactivation	100	02OCT06*	28FEB07	119		0.00	23,534.00									EE//EM =40hr ; EE//SM =40hr ; EE//TB =100hr ; 41=\$2.5 k			
<b>43 - DC Systems</b>																				
<b>431 - C-Site DC Systems</b>																				
<b>Job: 4301 - DC Systems-RAMAKRISHNAN</b>																				
<b>431 - C-Site DC Systems</b>																				
4301-100	Prel Design link box & physical details,location	63	03MAY04*	30JUL04	1,302		0.00	75,124.40									vankirk=240; raki=160 ee//sm=96; ee//tb=120; 41=\$5			
4301-104	clear EF/OH bldg of stored hardware	10	29MAY08	11JUN08	338		0.00	0.00												
431-1-2	Coil DC Cabling to link box (PCTB)-Dsn	153	13OCT05*	25MAY06	659		0.00	38,740.00									EA//DM =272hr ; EE//EM =56hr ;			
431-1-4	Coil DC Cabling to link box(PCTB)-Procure	190	01SEP06*	07JUN07	591		0.00	52,804.46									41=39\$k ;			
431-1-6	Coil DC Cabling to (PCTB)-Install	108	08JAN07*	07JUN07	591		0.00	9,689.60												
431-2-2	DC Cabling to Coils in TC-Dsn	149	13OCT05*	19MAY06	181		0.00	60,140.00									EE//EM =40hr ; EE//SM =24hr ;			
431-2-4	DC Cabling to Coils in TC-Procure	190	01JUN06*	07MAR07	174		0.00	60,160.01									EA//DM =352hr ; EE//EM =136hr ;			
431-2-6	DC Cabling to Coils in TC-Install	108	27SEP06	07MAR07	174		0.00	30,012.22									41=45\$k ; EE//EM =80hr ; EE//SM =80hr ; EE//TB =80hr ;			

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)								
									FY03	FY04	FY05	FY06	FY07	FY08	FY09	
<b>432 - D-to-C Site DC Systems</b>																
<b>Job: 4301 - DC Systems-RAMAKRISHNAN</b>																
<b>FY03 Actual Cost</b>																
4301-001	Apr-Sept MIE Cost	43*	01APR03A	30SEP03A		100	2,390.00	2,390.00								
<b>432 - D to C-Site DC Systems</b>																
432-100	Prepare Tower SOW and IP for BOA design	10*	03NOV03A	26NOV03A		100	6,141.60	6,141.60								
432-105	BOA design tower supports	71*	12DEC03A	30MAR04	1,202	10	15,975.96	48,412.00								
432-110	Prep SOW and Requisition for tower installation	16	31MAR04	21APR04	1,202		0.00	23,812.00								
432-115	Bid & Award	35	22APR04	10JUN04	1,202		0.00	0.00								
432-120	Install Tower Supports	74	11JUN04	24SEP04	1,202		0.00	397,488.00								
432-1-2	DC Cabling-Dsn	80	01MAR04*	21JUN04	1,124		0.00	28,046.40								
432-1-4.0	Prepare SOW & Requisition for 1000MCM 5kv Cable	30	22JUN04	03AUG04	1,124		0.00	0.00								
432-1-4.1	Bid & Award - Cable	40	01JUL05*	26AUG05	898		0.00	0.00								
432-1-4.2	Cable Delivery [A/1]	75	03OCT05*	25JAN06	874		0.00	135,928.80								
432-1-4.4	Prepare SOW & Requisition for Cable Installation	30	22JUN04	03AUG04	1,138		0.00	0.00								
432-1-4.5	Bid & Award Cable Installation	40	02MAY05*	27JUN05	955		0.00	0.00								
432-1-4.7	Procure trays	20	01JUL05*	29JUL05	952		0.00	14,212.00								
432-1-4.8	Install Trays	41	01AUG05	27SEP05	952		0.00	14,212.00								
432-1-4.6	S/C Install Cable [A/1]	61	01FEB06	26APR06	870		0.00	622,485.00								
432-1-6	DC Cabling-Installation Support	140	03OCT05*	26APR06	870		0.00	29,992.80								
<b>433 - D-Site DC Systems</b>																
<b>Job: 4301 - DC Systems-RAMAKRISHNAN</b>																
<b>4332 - Isolating Switches</b>																
433-2-4.0	Design Isolation switch	40	01MAR04*	23APR04	1,230		0.00	6,710.60								
433-2-4.1	Prep Spec and Requisition for Isolation Switch	30	26APR04	07JUN04	1,230		0.00	6,710.60								
433-2-4.2	Bid & Award Isolation Switch	30	08JUN04	20JUL04	1,230		0.00	0.00								
433-2-4.3	Deliver Isolation Switch	40	21JUL04	15SEP04	1,230		0.00	115,934.00								
433-2-4.4	Prep SOW and Requisition for IS installation	30	26APR04	07JUN04	1,270		0.00	6,710.60								
433-2-4.5	Bid & Award IS Installation	30	08JUN04	20JUL04	1,270		0.00	0.00								
433-2-4.6	Install Isolation Switch	40	16SEP04	10NOV04	1,230		0.00	85,451.90								
<b>4331 - DC Cabling</b>																
433-1-2	DC Cabling-Dsn	166	01OCT04*	03JUN05	421		0.00	73,961.60								
433-1-4	DC Cabling-Procure	75	07OCT05*	31JAN06	259		0.00	91,819.80								
433-1-6	DC Cabling-Install	100	03AUG06*	02JAN07	130		0.00	43,784.52								
433-3-2	NSTX OH PS changes-Dsn	245*	01OCT04*	26SEP05	119		0.00	17,812.80								

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									FY03	FY04	FY05	FY06	FY07	FY08	FY09					
433-3-6	NSTX OH PS changes-Install	180	03OCT05*	22JUN06	115		0.00	7,012.00												
433-3-8	NSTX OH PS changes-Commission	143	23JUN06	23JAN07	115		0.00	3,562.22												
433-4-2	NSTX TF Power Supply changes-Dsn	238*	01OCT04*	15SEP05	126		0.00	17,812.80												
433-4-6	NSTX TF Power Supply changes-Install	180	28SEP05*	19JUN06	118		0.00	7,010.04												
433-4-8	NSTX TF Power Supply changes-Commission	143	20JUN06	18JAN07	118		0.00	3,556.68												
<b>44 - Control and protection Systems</b>																				
<b>441 - Electrical Interlocks</b>																				
441-1-2	C-site-Dsn	345*	01OCT04*	23FEB06	114		0.00	120,616.10												
441-1-4	C-site-Procure	149	30SEP05*	08MAY06	300		0.00	26,046.06												
441-1-6	C-site-Install	238	24FEB06*	07FEB07	114		0.00	161,027.72												
441-2-2	D-site-Dsn	345*	01OCT04*	23FEB06	120		0.00	65,417.43												
441-2-4	D-site-Procure	192	03OCT05*	11JUL06	176		0.00	18,217.80												
441-2-6	D-site-Install	192	24FEB06*	27NOV06	120		0.00	77,399.95												
441-2-8	D-site-Commission	123	31JUL06*	30JAN07	120		0.00	35,951.61												
441-3-2	D-to-C-site-Dsn	80	03OCT05*	01FEB06	128		0.00	25,800.00												
441-3-4	D-to-C-site-Procure	186*	07OCT05*	07JUL06	178		0.00	6,525.00												
441-3-6	D-to-C-site-Install	200	02FEB06*	13NOV06	128		0.00	23,744.24												
441-3-8	D-to-C-site-Commission	123	19JUL06*	18JAN07	128		0.00	17,889.95												
<b>442 - Kirk Key Interlocks</b>																				
442-1-2	Kirk Keys-Dsn	41	03OCT05*	30NOV05	289		0.00	32,100.00												
442-1-4	Kirk Keys-Procure	185	24OCT05*	21JUL06	130		0.00	13,050.00												
442-1-6	Kirk Keys-Install	68	24JUL06*	26OCT06	130		0.00	31,103.17												
442-1-8	Kirk Keys-Commission	62	27SEP06*	02JAN07	130		0.00	21,784.32												
<b>443 - Real Time Control Systems</b>																				
443-1-2	Develop Control Algorithms-Dsn	142	21APR06*	09NOV06	130		0.00	38,397.97												
<b>444 - Instrument Systems</b>																				
444-1-2	DC Current Transducers (DCCTs)-Dsn	124	13OCT05*	14APR06	126		0.00	15,100.00												

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444-1-4	DC Current Transducers (DCCTs)-Procure	164	05DEC05*	01AUG06	191		0.00	46,980.00				41=36\$k ;			
444-1-6	DC Current Transducers (DCCTs)-Install	160	17APR06*	01DEC06	126		0.00	35,115.07				EE/EM =32hr ; EE//SM =64hr ; EE//TB =280hr ;			
444-1-8	DC Current Transducers (DCCTs)-Commission	143	08JUN06*	08JAN07	126		0.00	16,521.62				EE/EM =24hr ; EE//SM =24hr ; EE//TB =120hr ;			
444-2-2	DC Potential Transducers (DCPTs)-Dsn	95	07OCT05*	28FEB06	119		0.00	30,200.00				EA/DM =160hr ; EE/EM =80hr ;			
444-2-4	DC Potential Transducers (DCPTs)-Procure	207	30SEP05*	31JUL06	192		0.00	15,659.25				41=12\$k ;			
444-2-6	DC Potential Transducers (DCPTs)-Install	200	01MAR06*	12DEC06	119		0.00	33,603.00				EE/EM =40hr ; EE//SM =40hr ; EE//TB =280hr ;			
444-2-8	DC Potential Transducers (DCPTs)-Commission	120	21JUL06*	17JAN07	119		0.00	16,697.40				EE/EM =24hr ; EE//SM =24hr ; EE//TB =120hr ;			
444-3-2	DC Shunts-Dsn	122*	01OCT04*	01APR05	415		0.00	14,844.00				EA/DM =80hr ; EE/EM =40hr ;			
444-3-4	DC Shunts-Procure	224	29SEP05*	22AUG06	176		0.00	41,756.29				41=32\$k ;			
444-3-6	DC Shunts-Install	130	20MAR06*	20SEP06	176		0.00	34,403.20				EE/EM =32hr ; EE//SM =64hr ; EE//TB =280hr ;			
444-3-8	DC Shunts-Commission	65	21SEP06*	22DEC06	131		0.00	17,077.81				EE/EM =24hr ; EE//SM =24hr ; EE//TB =120hr ;			
444-4-2	Signal Conditioning & Cabling-Dsn	99	23SEP05*	20FEB06	195		0.00	52,846.67				EA/DM =80hr ; EE/EM =280hr ;			
444-4-4	Signal Conditioning & Cabling-Procure	188	13OCT05*	17JUL06	135		0.00	11,745.00				41=09\$k ;			
444-4-6	Signal Conditioning & Cabling-Install	130	16MAY06*	16NOV06	135		0.00	29,050.34				EE/EM =40hr ; EE//TB =280hr ;			
444-4-8	Signal Conditioning & Cabling-Commission	65	15SEP06*	18DEC06	135		0.00	21,559.32				EE/EM =80hr ; EE//SM =40hr ; EE//TB =40hr ;			
<b>445 - Coil protection Systems</b>															
<b>Job: 4401 - Control &amp; Protection-RAMAKRISHNAN</b>															
<b>4452 - Overload Protection</b>															
445-2-0	Overload Protection & Cabling-Prelim Dsn	131*	01MAR04*	01SEP04	1,279		0.00	89,287.20				vankirk =160hr ; raki =328hr ; marsala=88; ee//tb=112;41=\$ 4 k			
445-2-1	Overload Protection & Cabling-Peer Review	0	02SEP04	01SEP04	1,279		0.00	0.00							
445-1-2	Ground Fault Protection-Dsn	142	01OCT04*	29APR05	282		0.00	21,040.00				EA/DM =80hr ; EE/EM =80hr ;			
445-1-4	Ground Fault Protection-Procure	187	24NOV04*	26AUG05	199		0.00	3,876.00				41=03\$k ;			
445-1-6	Ground Fault Protection-Install	223	05OCT05*	25AUG06	173		0.00	18,137.60				EE/EM =32hr ; EE//SM =32hr ; EE//TB =120hr ;			
445-1-8	Ground Fault Protection-Commission	65	05OCT06*	15JAN07	121		0.00	12,028.80				EE/EM =32hr ; EE//SM =32hr ; EE//TB =32hr ;			
445-2-2	Overload Protection & Cabling-FinalDsn	65	05OCT05*	13JAN06	120		0.00	37,740.00				EA/DM =240hr ; EE/EM =72hr ;			
445-2-4	Overload Protection & Cabling-Procure	136	30SEP05*	19APR06	173		0.00	36,537.32				41=28\$k ;			
445-2-6	Overload Protection & Cabling-Install	186	16JAN06*	05OCT06	120		0.00	40,522.14				EE/EM =64hr ; EE//SM =152hr ; EE//TB =168hr ;			
445-2-8	Overload Protection & Cabling-Commission	65	09OCT06	17JAN07	119		0.00	24,268.80				EE/EM =80hr ; EE//SM =32hr ; EE//TB =80hr ;			
<b>446 - Ground Fault Monitoring System</b>															
446-1-2	GFMS-Dsn	190	03OCT05*	07JUL06	208		0.00	34,652.50				EA/DM =80hr ; EE/EM =120hr ;41=5			

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									FY03	FY04	FY05	FY06	FY07	FY08	FY09		
446-1-4	GFMS-Procure/Fab/Install	130	02OCT06*	11APR07	149		0.00	132,370.40	ee/em=168, ea/dm=48, ee/sm=24041=03\$k ; ee/tb=256, 41=\$35k								
<b>45 - Power System Design and Integration</b>																	
<b>451 - System Design and Interfaces</b>																	
<b>Job: 4501 - Power Sys Dsn &amp; Integ-RAMAKRISHNAN</b>																	
<b>FY03 Actual Cost</b>																	
4501-001	Apr-Sept MIE Cost	43*	01APR03A	30SEP03A		100	112,340.00	112,340.00									
<b>451 - System Design &amp; Interfaces</b>																	
4501-100	Design Drawings	171*	02FEB04*	30SEP04	1,259		0.00	69,832.00	vankirk=320; raki=240								
4501-110	Calculations-Dsn	43*	02FEB04*	31MAR04	1,387		0.00	12,897.60	vankirk=8; raki=80								
451-0-1	C-Site Decision	0	02FEB04	30JAN04*	1,430		0.00	0.00									
451-0-2	Develop SRD	21*	02FEB04*	01MAR04	1,409		0.00	0.00									
451-2-2	PDR Power system -Dsn	22*	01APR04*	30APR04	1,365		0.00	10,236.00	vankirk=40; rai=40								
451-7-2	FDR DC transmission-Dsn	20*	03MAY04*	28MAY04	1,345		0.00	10,236.00	vankirk =40hr ; raki =40hr ;								
<b>451-1-2</b>																	
451-1-2	Calculations-Dsn	498*	01OCT04*	29SEP06	761		0.00	37,488.00	EE/EM =240hr ;								
451-2-2.1	FDR Power system -Dsn	65	01OCT04*	12JAN05	1,194		0.00	10,520.00	EA/DM =40hr ; EE/EM =40hr ;								
451-3-2	Drawings,changes,asbuilts -Elect Dsn Integration	756*	01OCT04*	11OCT07	503		0.00	275,076.00	EA/DM 960hr ; EE/EM =								
451-4-2	FDR AC auxiliaries & grounding-Dsn	45	03OCT05*	06DEC05	965		0.00	10,700.00	EA/DM =40hr ; EE/EM =40hr ;								
451-6-2	FDR C-Site -Dsn	45	01OCT04*	06DEC04	1,214		0.00	21,040.00	EA/DM =80hr ; EE/EM =80hr ;								
451-8-2	FDR D-Site -Dsn	45	01OCT04*	06DEC04	1,214		0.00	21,040.00	EA/DM =80hr ; EE/EM =80hr ;								
<b>452 - Electrical Systems Support</b>																	
<b>452-1-2</b>																	
452-1-2	Diagnostics AC Power Distr-Dsn	108*	11AUG05*	20JAN06	139		0.00	16,505.06	EA/DM =128hr ; EE/EM =16hr ;								
452-1-4	Diagnostics AC Power Distr-Procure	248	05OCT05*	02OCT06	178		0.00	1,305.19	41=01\$k ;								
452-1-6	Diagnostics AC Power Distr-Install	217	23JAN06	28NOV06	139		0.00	14,659.67	EE/EM =16hr ; EE/SM =16hr ; EE/TB =128hr ;								
452-1-8	Diagnostics AC Power Distr-Commission	65	23OCT06*	31JAN07	139		0.00	6,021.60	EE/EM =08hr ; EE/SM =16hr ; EE/TB =32hr ;								
452-2-2	Diagnostics sensor cabling-Dsn	97*	11AUG05*	05JAN06	237		0.00	23,748.58	EA/DM =160hr ; EE/EM =40hr ;								
452-2-4	Diagnostics sensor cabling-Procure	240	05OCT05*	20SEP06	186		0.00	2,610.00	41=02\$k ;								
452-2-6	Diagnostics sensor cabling-Install	130	30MAY06*	01DEC06	136		0.00	20,556.31	EE/EM =24hr ; EE/SM =32hr ; EE/TB =160hr ;								
452-2-8	Diagnostics sensor cabling-Commission	65	26OCT06*	05FEB07	136		0.00	6,021.60	EE/EM =08hr ; EE/SM =16hr ; EE/TB =32hr ;								
<b>453 - System Testing (PTP's)</b>																	
<b>453-1-2</b>																	
453-1-2	New Procedures	90	06OCT05*	20FEB06	215		0.00	68,000.00	EA/DM =160hr ; EE/EM =320hr ;								

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									FY03	FY04	FY05	FY06	FY07	FY08	FY09	
453-1-4	Preop Testing-Procure test equipt	160	10JUL06*	01MAR07	118		0.00	33,366.72								
453-1-8	Testing PTPs, ISTPs	100	09OCT06*	07MAR07	114		0.00	90,618.40								
<b>46 - FCPC Building Modifications</b>																
<b>460</b>																
<b>Job: 4601 - FCPC Bldg Mods-RAMAKRISHNAN</b>																
<b>FY03 Actual Cost</b>																
4601-001	Apr-Sept MIE Cost	43*	01APR03A	30SEP03A		100	1,300.00	1,300.00								
4601-100	Clear area in West wing SPS to HVAC equipt	64*	01APR04*	30JUN04	1,323		0.00	24,226.00								
460-2-4	Clear the small Vacuum prep lab -Procure	65	01OCT04*	12JAN05	1,129		0.00	646.00								
460-2-6	Clear the small Vacuum prep lab -Install	65	13JAN05	13APR05	1,129		0.00	12,464.00								
460-3-2	Floor & Wall Penetrations-Dsn	65	01OCT04*	12JAN05	392		0.00	2,968.80								
460-3-4	Floor & Wall Penetrations-Procure	65	13JAN05	13APR05	392		0.00	11,628.00								
460-3-6	Floor & Wall Penetrations-Install	65	14APR05	15JUL05	392		0.00	11,730.40								
460-4-2	Mechanical Modifications-Dsn	65	01APR05*	01JUL05	271		0.00	4,208.00								
460-4-4	Mechanical Modifications-Procure	65	05JUL05	04OCT05	271		0.00	2,584.80								
460-4-6	Mechanical Modifications-Install	65	05OCT05	13JAN06	271		0.00	6,858.40								
<b>5 - Central I&amp;C Systems</b>																
<b>51 - TCP/IP Infrastructure Systems</b>																
<b>Job: 5801 -Central I&amp;C Integr &amp; Oversight-OLIARO</b>																
51-01	FY04 LOE support	250*	01OCT03A	30SEP04	1,259	LOE	3,951.39	12,504.40								
51-02	FY05 LOE support	249*	01OCT04*	30SEP05	1,010		0.00	12,848.40								
51-10	Preliminary Design (Title I)	45	21AUG06*	23OCT06	123		0.00	6,246.40								
51-20	Final Network Design (Title II)	20	24OCT06	20NOV06	123		0.00	6,548.00								
51-30	Installation, Testing, Documentation (Title III)	120	21NOV06*	17MAY07	123		0.00	390,879.60								
<b>52 - Central Instrumentation &amp; Control</b>																
52-10	Preliminary Design (Title I)	45	06MAR06*	05MAY06	121		0.00	24,320.00								

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									FY03	FY04	FY05	FY06	FY07	FY08	FY09		
52-20	Final Design (Title II)	87	08MAY06	08SEP06	121		0.00	97,280.00									
52-30	Installation, Testing, Documentation (Title III)	173	11SEP06*	21MAY07	121		0.00	456,439.69									
<b>53 - Data Acquisition &amp; Facility Computing</b>																	
53-10	Preliminary Design (Title I)	45	08MAR06*	09MAY06	119		0.00	48,640.00									
53-20	Final Design (Title II)	87	10MAY06	12SEP06	119		0.00	72,960.00									
53-30	Coding, Configuration, Testing (Title III)	173	13SEP06*	23MAY07	119		0.00	286,217.26									
<b>54 - Facility Timing &amp; Synchronization</b>																	
54-10	Preliminary Design (Title I)	45	01JUN06*	03AUG06	119		0.00	36,480.00									
54-20	Final Design (Title II)	65	04AUG06	03NOV06	119		0.00	56,340.00									
54-30	Installation, Testing, Documentation (Title III)	135	06NOV06	23MAY07	119		0.00	259,211.60									
<b>55 - Real Time Plasma &amp; Power Supply Control Sys</b>																	
55-10	Preliminary Design (Title I)	45	01AUG06*	03OCT06	137		0.00	12,201.60									
55-20	Final Design (Title II)	20	04OCT06	31OCT06	137		0.00	13,096.00									
55-30	Installation, Testing, Documentation (Title III)	120	10NOV06	08MAY07	130		0.00	267,982.40									
<b>56 - Central Safety Interlock Systems</b>																	
56-10	Preliminary Design (Title I)	87	15MAY06*	15SEP06	136		0.00	24,320.00									
56-20	Final Design (Title II)	45	18SEP06	17NOV06	136		0.00	25,776.00									
56-30	Installation, Testing, Documentation (Title III)	108	20NOV06	30APR07	136		0.00	349,830.00									
<b>57 - Control Room Facility</b>																	
57-10	Preliminary Design (Title I)	45	01SEP06*	03NOV06	147		0.00	12,680.00									
57-20	Final Design (Title II)	20	06NOV06	05DEC06	147		0.00	13,096.00									

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									FY03	FY04	FY05	FY06	FY07	FY08	FY09			
57-30	Installation, Testing, Documentation (Title III)	87	06DEC06	13APR07	147		0.00	93,938.00										
<b>6 - Facility Systems</b>																		
<b>61 - Water Systems</b>																		
<b>611 - C-Site Cooling System</b>																		
615.011	Engr recommissioning of C-Site Water systems	44	03JUL06*	01SEP06	160		0.00	9,796.20										
615.021	Replace valves, resins, filters	65	06OCT06*	16JAN07	137		0.00	143,473.60										
<b>612 - NB Water Cooling Systems</b>																		
622.001	WBS 612 Preliminary design	79	30MAY06*	19SEP06	147		0.00	35,824.00										
622.011	WBS 612 Final Design	60	20SEP06	14DEC06	147		0.00	23,802.66										
622.021	WBS 612 Assembly/Fabrication/Installation	80	26JAN07*	17MAY07	123		0.00	180,299.92										
<b>613 - Vacuum Pumping System</b>																		
623.010	LOE WBS 612	410*	06OCT04*	31MAY06	846		0.00	10,033.20										
623.011	Design WBS 612	118	01JUN06*	15NOV06	133		0.00	22,793.02										
632.021	WBS 612 Assembly/Fabrication/Installation	40	13DEC06*	14FEB07	116		0.00	67,180.00										
<b>614 - Bakeout Water System</b>																		
625.001	WBS 614 Preliminary design	58	03OCT05*	23DEC05	368		0.00	12,178.00										
625.011	WBS 614 Final Design	62	03JAN06	29MAR06	368		0.00	12,178.00										
625.021	WBS 614 Assembly/Fabrication	40	26MAR07	18MAY07	122		0.00	14,153.80										
<b>62 - Cryogenic Systems</b>																		
<b>621 - LN2-LHe Supply System</b>																		
631-001	Preliminary Design	65	19MAY06*	21AUG06	137		0.00	15,032.10										
631-010	Final Design	65	22AUG06	21NOV06	137		0.00	35,902.27										
631-015	Fab/Assy/Installation	65	08FEB07*	09MAY07	129		0.00	82,963.10										
631-020	Procurement	88	06DEC06*	16APR07	129		0.00	118,976.00										

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									FY03	FY04	FY05	FY06	FY07	FY08	FY09
<b>622 - LN2 Coil Cooling Supply</b>															
632-001	Preliminary Design	65	15MAY06*	15AUG06	116		0.00	15,032.10							
632-010	Final Design	65	16AUG06	15NOV06	116		0.00	29,337.35							
632-015	Fab/Assy/Installation	110	18DEC06*	29MAY07	116		0.00	114,018.60							
632-020	Procurement	130	16NOV06*	29MAY07	116		0.00	116,001.60							
<b>623 - GN2 Cryostat Cooling System</b>															
633-001	Preliminary Design	65	12APR06*	13JUL06	139		0.00	15,032.10							
633-010	Final Design	65	14JUL06	13OCT06	139		0.00	24,114.72							
633-015	Fab/Assy/Installation	88	11JAN07*	14MAY07	126		0.00	72,933.10							
633-020	Procurement	130	02NOV06*	14MAY07	126		0.00	108,092.40							
<b>63 - Utility Systems</b>															
640.010	FY04/05 LOE support	489*	06OCT04*	21SEP06	767		0.00	16,749.14							
640.011	Design GN2, Air & Vent Systems	117	26MAY06*	09NOV06	150		0.00	31,706.87							
640.021	Assembly/Fabrication	40	19DEC06*	20FEB07	125		0.00	72,413.80							
<b>64 - PFC/VV Heating &amp; Cooling</b>															
<b>640 - PFC/VV Heating &amp; Cooling</b>															
650.001	Preliminary Design	50	26MAY06*	07AUG06	122		0.00	40,172.00							
650.005	Final Design	65	08AUG06	07NOV06	122		0.00	118,749.29							
650.010	Lab Fab/Assy/Installation	130	08NOV06*	18MAY07	122		0.00	286,477.00							
650.012	Procured Hardware/Material	130	08NOV06*	18MAY07	122		0.00	172,650.40							
650.015	Procured Installation/Assy	43	21MAR07*	18MAY07	122		0.00	10,816.00							
<b>65 - Facility Systems Integration</b>															
<b>612 - NB Water Cooling Systems</b>															
<b>Job: 6501 - Facility Systems Integration-DUDEK</b>															
<b>FY03 Actual Cost</b>															
6501-001	Apr-Sept MIE Cost PPPL	0	01APR03A	30SEP03A		100	9,380.00	9,380.00							

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									FY03	FY04	FY05	FY06	FY07	FY08	FY09
<b>650 - Facility Systems Integration</b>															
<b>Job: 6163 - Facility Systems Support FY04</b>															
65-03	LOE WBS 6	250*	01OCT03A	30SEP04	1,259	LOE	10,181.52	32,220.00							
<b>7 - Test Cell Preparation and Machine Assy</b>															
<b>71 - Shield Wall Seismic Modifications</b>															
<b>Job: 7101 - Shield Wall Modif Design-PERRY</b>															
<b>FY03 Actual Cost</b>															
7101-000	Apr-Sept MIE Cost PPPL	66	01APR03A	30SEP03A		100	32,150.00	32,150.00							
<b>72 - Control Room Refurbishment</b>															
<b>Job: 7201 - Control Room Walls&amp;Floors-PERRY</b>															
710.001	Block Wall east side control room	41	01JUN04*	28JUL04	1,284		0.00	39,512.00							
711B.050	Complete Control Room Flooring	20	29JUL04	25AUG04	1,284	85	0.00	8,107.20							
<b>73 - Platform Design &amp; Fabrication</b>															
<b>730 - Test Cell &amp; Basement Assembly Operations</b>															
<b>Job: 7301 - Platform Design &amp; Fab-PERRY</b>															
712.008	Update Platform Specification	12*	02FEB04*	17FEB04	1,354		0.00	6,460.00							
712.009	Platform PDR	0		17FEB04*	1,354		0.00	0.00							
711A.040	Platform nut plates	63*	02JUL04*	30SEP04	1,259	75	0.00	27,648.00							
712.010	Final Design	64*	01JUL04*	30SEP04	1,283		0.00	54,170.00							
<b>Job: 7401 - TC Prep &amp; Mach Assy Planning-PERRY</b>															
712.020	Fab & Assemble Platform	132	03OCT05*	10APR06	212		0.00	24,296.30							
712.030	Miscs Hardware/Material	132	03OCT05*	10APR06	896		0.00	45,675.00							
<b>74 - Machine Assembly Planning and Oversight</b>															
<b>740 - Machine Assembly Planning and Oversight</b>															
<b>Job: 7401 - TC Prep &amp; Mach Assy Planning-PERRY</b>															
<b>Test Cell Modifications &amp; Upgrades</b>															
613.030	Test Cell copper ground plane cuts	25	30MAR04*	03MAY04	1,222		0.00	10,490.00							
713.010	General procurements	128*	01APR04*	30SEP04	1,283		0.00	12,740.00							
7502-000	Outlet Design	65*	02FEB04*	30APR04	1,199		0.00	25,272.00							
7502-001	Test Cell 110v outlets	40	01JUL04*	26AUG04	1,283		0.00	14,268.80							

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									FY03	FY04	FY05	FY06	FY07	FY08	FY09		
7502-002	Test Cell 208v outlets	40	01JUL04*	26AUG04	1,283		0.00	7,134.40									
7502-010	Ready Rooms (under control room) 110v outlets	40	01JUL04*	26AUG04	1,157		0.00	7,134.40									
7502-011	Cable Removal in test cell (S04335-32)	0*	01OCT03A	31OCT03A		100	9,937.20	9,937.20									
7502-025	TC Floor penetration covers	42	03NOV03A	26NOV03A		100	16,848.00	16,848.00									
EXFAC001.2	Complete Crane Modifications (S04354)	0*	02FEB04A	30JAN04A		100	37,608.48	37,608.48									
<b>741 - Planning Prior to Machine Assembly</b>																	
<b>Job: 7401 - TC Prep &amp; Mach Assy Planning-PERRY</b>																	
<b>FY03 Actual Cost</b>																	
7401-001	Apr-Sept MIE Cost PPPL	66	01APR03A	30SEP03A		100	131,680.00	131,680.00									
<b>Oversight and Supervision</b>																	
711A.020	LOE FY04	256*	01OCT03A	30SEP04	1,283	LOE	49,764.97	149,894.50									
<b>FED/Infrastructure Support (non Project cost)</b>																	
613.010	Remove Shield Walls ** GPP **	42	04MAR04*	30APR04	1,344		0.00	0.00									
613.015	Fabricate New Bottom Course of Blocks **GPP**	85*	02JAN04A	30APR04	1,344		0.00	0.00									
613.017	Install New Bottom Course **GPP**	42*	03MAY04*	30JUN04	1,347		0.00	0.00									
613.020	Remove south PLT shielding (cc 7230)	45	12JAN04A	02APR04	1,409		0.00	0.00									
613.025	Dispose of old south PLT shielding **GPP**	45	03MAY04	06JUL04	1,344		0.00	0.00									
EXFAC003	Clear PBX control room & Safe PBX (cc7230)	110*	27JAN03A	30JUN03A		100	0.00	0.00									
EXFAC004	Remove Fire protection PLT wall (cc7230)	21	01MAY03A	09MAY03A		100	0.00	0.00									
EXFAC005	Remove Fire Protection under platform (cc7230)	21	01APR03A	30APR03A		100	0.00	0.00									
EXFAC006	Remove Fire Protection Control rm walls(cc7230)	21	01MAY03A	09MAY03A		100	0.00	0.00									
EXFAC007	Remove PBX Base Plates cc7230)	41	02FEB04*	29MAR04	1,198	100	0.00	0.00									
GPP001	GPP-Upgarde C-Site central chilled wtr plant*TBD	1	01OCT02A	01OCT02A			0.00	0.00									
GPP004	GPP-Roofing Design	171*	02FEB04*	30SEP04	1,010		0.00	0.00									
GPP004.1	GPP-Roofing Install	249*	01OCT04*	30SEP05	1,010		0.00	0.00									
GPP005	GPP-Test Cell lighting Design	64*	01APR04*	30JUN04	1,259		0.00	0.00									
GPP005.1	GPP-Test Cell lighting Install	64	01JUL04	30SEP04	1,259		0.00	0.00									
GPP006	GPP-Test Cell HVAC/dew point control Design	120	01OCT04*	30MAR05	1,011		0.00	0.00									
GPP006.1	GPP-Test Cell HVAC/dew point control Install	128	31MAR05	29SEP05	1,011		0.00	0.00									
GPP007	GPP-C-Site elevators Design	64	02FEB04*	29APR04	1,302		0.00	0.00									
GPP007.1	GPP-C-Site elevators Install	64	30APR04	30JUL04	1,302		0.00	0.00									
GPP008	GPP-Fire suppression high bay design	64	01APR04*	30JUN04	1,259		0.00	0.00									
GPP008.1	GPP-Fire suppression high bay install	64	01JUL04	30SEP04	1,259		0.00	0.00									
GPP009	Control Room Lights & Outlets design	121*	01OCT04*	31MAR05	1,010		0.00	0.00									
GPP009.1	Control Room Lights & Outlets install	64	01APR05	30JUN05	1,010		0.00	0.00									
GPP010	Control Room HVAC Design	121*	01OCT04*	31MAR05	1,010		0.00	0.00									

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									FY03	FY04	FY05	FY06	FY07	FY08	FY09	
GPP010.1	Control Room HVAC Install	64	01APR05	30JUN05	1,010		0.00	0.00								
GPP011	Control Room Ceiling Design	64	01APR05*	30JUN05	1,010		0.00	0.00								
GPP011.1	Control Room Ceiling Install	64	01JUL05	30SEP05	1,010		0.00	0.00								
GPP012	Control Rm Fire Detection & Suppression Design	121*	01OCT04*	31MAR05	1,010		0.00	0.00								
GPP012.1	Control Rm Fire Detection & Suppression Install	64	01APR05	30JUN05	1,010		0.00	0.00								
<b>742 - Construction Management</b>																
<b>Job: 7401 - TC Prep &amp; Mach Assy Planning-PERRY</b>																
<b>Project Scope</b>																
714.010	LOE FY05	249	01OCT04*	30SEP05	522		0.00	236,807.20								
714.020	LOE FY06 prior to assy starting	122	03OCT05	31MAR06	522		0.00	118,111.86								
714.030	LOE FY07 thru first plasma	366	03APR06	14SEP07	522		0.00	542,474.94								
714.031	WBS 7 mgt stretch out cost	180*	11SEP07*	30MAY08	346		0.00	287,396.72								
<b>75 - Test Cell and Basement Assembly Operations</b>																
<b>750 - Test Cell &amp; Basement Assembly Operations</b>																
<b>7501 - Construction Support Crew</b>																
7501-05	Construction Support Crew during machine assy	356	12JAN06	11JUN07	107		0.00	795,647.13								
7501-06	Construction Support Crew during e-beam mapping	41	29AUG07	25OCT07	493		0.00	94,025.50								
7501-07	Construction Support Crew during cryostat instl	40	12OCT07	10DEC07	463		0.00	92,837.72								
<b>7502 - Test Cell Facility Preparations</b>																
7502-020	Resurface TC floor	42	04OCT04*	02DEC04	1,132		0.00	30,248.00								
7502-030	TC Floor firesealing	42	03DEC04*	09FEB05	1,132		0.00	12,996.00								
7502-035	Control room firesealing	42	10FEB05*	08APR05	1,132		0.00	8,664.00								
<b>7503 - Machine Assembly</b>																
730.1000	Begin Assembly Activities	0	18JUL06*		124		0.00	0.00								
730.1020	Install & Level Support Base Plates	15	18JUL06	07AUG06	124		0.00	34,504.00								
730.1030	Install/Level Machine Support Columns	25	08AUG06	12SEP06	124		0.00	51,756.00								
730.1040	Install Platform	55	13SEP06	30NOV06	124		0.00	231,277.87								
730.1050	Install Lighting, Fire Det/Supprs under platform	160	01DEC06	24JUL07	559		0.00	70,761.60								
730.1060	Install Lower Cryostat Floor	5	27SEP06	03OCT06	124		0.00	17,784.80								
730.1070	Install Lower PF 3,4,5&6 into prelim position	5	04OCT06	10OCT06	124		0.00	18,584.00								
730.1081	1st Field Period Assembly-Position	6	11OCT06	18OCT06	124		0.00	22,300.80								

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)	Gantt Chart											
									FY03	FY04	FY05	FY06	FY07	FY08	FY09					
730.1081X	*****PBR add1st Field Period Assembly-Position	6	19OCT06	26OCT06	124		0.00	22,300.80									em//sm=48; em//tb=192			
730.1082	1st Field Period Assembly-Weld	4	27OCT06	01NOV06	124		0.00	14,867.20									em//sm=32; em//tb=128			
730.1083	1st Field Period Assembly-Leak Check	5	02NOV06	08NOV06	124		0.00	18,584.00									em//sm=40; em//tb=160			
730.1091	2nd Field Period Assembly-Position	6	09NOV06	16NOV06	124		0.00	22,300.80									em//sm=48; em//tb=192			
730.1091X	*****PBR add2nd Field Period Assembly-Position	6	17NOV06	28NOV06	124		0.00	22,300.80									em//sm=48; em//tb=192			
730.1092	2nd Field Period Assembly-Weld	4	29NOV06	04DEC06	124		0.00	14,867.20									em//sm=32; em//tb=128			
730.1093	2nd Field Period Assembly-Leak Check	5	05DEC06	11DEC06	124		0.00	18,584.00									em//sm=40; em//tb=160			
730.1101	3rd Field Period Assembly-Position	12	12JAN07	29JAN07	107		0.00	44,601.60									em//sm=96; em//tb=384			
730.1101X	*****pbr ardr Field Period Assembly-Position	12	30JAN07	14FEB07	107		0.00	44,601.60									em//sm=96; em//tb=384			
730.1102	3rd Field Period Assembly-Weld	4	15FEB07	20FEB07	107		0.00	14,867.20									em//sm=32; em//tb=128			
730.1103	3rd Field Period Assembly-Leak Check	5	21FEB07	27FEB07	107		0.00	18,584.00									em//sm=40; em//tb=160			
730.1130	Make Final Vacuum Pump Connections to VV	13	28FEB07	16MAR07	107		0.00	37,168.00									em//sm=80; em//tb=320			
730.1140	PTP Pumpdown & leak check VV (WBS 220-025)	10	19MAR07	30MAR07	107		0.00	47,012.00									support labor em//em=40; em//sm=160; em//tb=240			
730.1150	Raise lower PF-3,4,5&6 coils into final position	3	02APR07	04APR07	107		0.00	11,615.00									em//sm=25; em//tb=100			
730.1170	Install PF Solenoid into position (U/L 1&2 PF)	4	05APR07	10APR07	107		0.00	13,938.00									em//sm=30; em//tb=120			
730.1175	Install Upper PF-3,4,5 & 6 coils	3	11APR07	13APR07	107		0.00	11,615.00									em//sm=25; em//tb=100			
730.1180	Install Bus connections to coil sys (WBS 431-131	40	16APR07	11JUN07	107		0.00	0.00												
730.1210	Connect Cooling System (WBS 61)	30	02APR07	11MAY07	127		0.00	0.00												
730.1230	Complete Bus connections (WBS 4 )	40	16APR07	11JUN07	107		0.00	37,168.00									em//sm=80; em//tb=320			
730.1249	Operational Readiness Assessment	20	14MAY07	11JUN07	107		0.00	0.00												
730.1250	Operational Readiness	0		11JUN07	107		0.00	0.00												
730.8075	Prep Cryostat for installation	10	12OCT07	25OCT07	107		0.00	66,128.00												
730.8100	Cryo stat installation & Test & Cooldown	20	26OCT07	22NOV07	107		0.00	132,256.00												
730.8200	Cold Power Test PTP	10	23NOV07	10DEC07	107		0.00	66,128.00												

### 76 - Tooling Design & Fabrication

713.020	Lab Fab/Assy/Installation	764*	01OCT04*	28SEP07	519		0.00	29,973.45									em//em=80;em//sm=42;em//tb=320
713.030	Tooling,assy fixtures,misc equipt	383*	03APR06*	28SEP07	519		0.00	80,177.55									41=\$60k
713.040	General procurements	383*	03APR06*	28SEP07	519		0.00	60,133.16									41=\$45k
713.050	Welding tools, materials & equipt	383*	03APR06*	28SEP07	519		0.00	53,451.70									41=\$40k

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Status

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)							
									FY03	FY04	FY05	FY06	FY07	FY08	FY09
<b>77 - Measurement Systems</b>															
780.000	No additional tools/devices needed.	1,106*	02FEB04	30MAY08	348		0.00	0.00							
<b>8 - Project Oversight and Support</b>															
<b>81 - Project Management and Control</b>															
<b>810 - Project Management &amp; Control</b>															
<b>Job: 8101 - Project Management &amp; Control-NEILSON</b>															
<b>FY03 Actual Cost</b>															
810.001	Apr-Sept MIE Cost PPPL	128*	01APR03A	30SEP03A		100	387,340.00	387,340.00							
810.900	Project Management Office PPPL 1 mo SO	21	01OCT07*	29OCT07	351		0.00	42,310.60						R///RM3 =122;fc/am=71;35=.5	
810.990	Project Management Office PPPL 1 mo SO	21	30OCT07*	27NOV07	351		0.00	42,310.60						R///RM3 =122;fc/am=71;35=.5	
810.991	Project Management Office PPPL 1 mo SO	21	28NOV07*	31DEC07	351		0.00	42,310.60						R///RM3 =122;fc/am=71;35=.5	
810.992	Project Management Office PPPL 1 mo SO	21	02JAN08*	30JAN08	351		0.00	42,310.60						R///RM3 =122;fc/am=71;35=.5	
810.993	Project Management Office PPPL 1 mo SO	21	31JAN08*	28FEB08	351		0.00	42,310.60						R///RM3 =122;fc/am=71;35=.5	
810.994	Project Management Office PPPL 1 mo SO	21	29FEB08*	28MAR08	351		0.00	42,310.60						R///RM3 =122;fc/am=71;35=.5	
810.995	Project Management Office PPPL 1 mo SO	21	31MAR08*	28APR08	351		0.00	42,310.60						R///RM3 =122;fc/am=71;35=.5	
810.996	Project Management Office PPPL 1 mo SO	21	29APR08*	27MAY08	351		0.00	42,310.60						R///RM3 =122;fc/am=71;35=.5	
810.002	Project Management Office PPPL FY04	256*	01OCT03A	30SEP04	1,283	LOE	228,799.40	689,154.82							
810.009	PDR Support	3*	01OCT03A	31OCT03A		100	41,163.08	41,163.08							Neilson=1467; Schmidt=884; 41=06\$; 35=08\$; Strykowski =884hr ; Hampron =624hr ;
810.010	CD-3 Readiness - Update Assy & Installation plan	65	01APR04*	01JUL04	1,346		0.00	0.00							41=\$ 28.17 k R400432 (pdr support) Neumeyer PDR panel = 35 hrs
810.015	CD-3 Readiness - Update resource loaded schedule	65	01APR04*	01JUL04	1,346		0.00	0.00							
810.020	CD-3 Readiness - Update risk management plan	65	01APR04*	01JUL04	1,346		0.00	0.00							
810.025	CD-3 Readiness - Update Value mgt/engr doc.	65	01APR04*	01JUL04	1,346		0.00	0.00							
810.028	CD-3 Readiness - Update Project Controls doc.	65	01APR04*	01JUL04	1,346		0.00	0.00							
810.030	CD-3 Readiness - Update Acquisition Strategy	65	01APR04*	01JUL04	1,346		0.00	0.00							
810.035	CD-3 Readiness - Update Proj Exec Plan (PEP)	65	01APR04*	01JUL04	1,346		0.00	0.00							
810.040	CD-3 Readiness - Assess/Update Integr Proj Team	65	01APR04*	01JUL04	1,346		0.00	0.00							
<b>Job: 8102 - NCSX MIE Management ORNL-LYON</b>															
<b>FY03 Actual Cost</b>															
810.101	Apr-Sept MIE Cost ORNL	129*	01APR03A	30SEP03A		100	58,600.00	58,600.00							
810.102	Project Management Office ORNL FY04	256*	01OCT03A	30SEP04	1,283	LOE	39,915.77	120,228.22							ORNLRM =358hr; Akers=178; Benson=178 ORNL41 =03\$ ; ORNL35 =04\$ ;
810.901	Project Management Office ORNL 1 mo SO	21	02OCT07*	30OCT07	350		0.00	2,834.10							ORNLRM =15hr

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)								
									FY03	FY04	FY05	FY06	FY07	FY08	FY09	
810.980	Project Management Office ORNL 1 mo SO	21	31OCT07*	28NOV07	350		0.00	2,834.10								ORNLRM =15hr
810.981	Project Management Office ORNL 1 mo SO	21	03DEC07*	02JAN08	350		0.00	2,834.10								ORNLRM =15hr
810.982	Project Management Office ORNL 1 mo SO	21	03JAN08*	31JAN08	350		0.00	2,834.10								ORNLRM =15hr
810.983	Project Management Office ORNL 1 mo SO	21	01FEB08*	29FEB08	350		0.00	2,834.10								ORNLRM =15hr
810.984	Project Management Office ORNL 1 mo SO	21	03MAR08*	31MAR08	350		0.00	2,834.10								ORNLRM =15hr
810.985	Project Management Office ORNL 1 mo SO	21	01APR08*	29APR08	350		0.00	2,834.10								ORNLRM =15hr
810.986	Project Management Office ORNL 1 mo SO	21	30APR08*	28MAY08	350		0.00	2,834.10								ORNLRM =415hr
<b>810.003 - Project Management Office PPPL FY05</b>																
810.003	Project Management Office PPPL FY05	255*	01OCT04*	30SEP05	1,028		0.00	538,759.58								R//RM3 =1645hr;41=06\$ ; 35=08\$ ; FC//AM =884hr ; B//CB =624hr ;
810.004	Project Management Office PPPL FY06	254*	03OCT05*	29SEP06	519		0.00	492,727.12								R//RM3 =1520; 41=02\$ ; 35=04\$ ; FC//AM =884hr ; B//CB =312hr ;
810.004X	Project Management Office PPPL FY07	65	02OCT06	04JAN07	519		0.00	140,228.10								R//RM3 =380; 41=02\$ ; 35=04\$ ; FC//AM =221hr ; B//CB =80hr ;
810.005	Project Management Office PPPL FY07	190*	05JAN07	28SEP07	519		0.00	341,782.20								R//RM3 =983; FC//AM =672hr
810.103	Project Management Office ORNL FY05	255*	01OCT04*	30SEP05	1,028		0.00	85,894.36								ORNLRM =180hr; Benson=143; Akers=178 ORNL41 =02\$ ; ORNL35 =03\$ ;
810.104	Project Management Office ORNL FY06	254*	03OCT05*	29SEP06	519		0.00	49,323.49								ORNLRM =180hr ORNL41 =2\$ Benson=89
810.104X	Project Management Office ORNL FY06	65	02OCT06	04JAN07	519		0.00	14,321.54								ORNLRM =45hr ORNL41 =2\$ Benson=22
810.105	Project Management Office ORNL FY07	190*	05JAN07	28SEP07	519		0.00	33,631.32								ORNLRM =178
<b>82 - Project Engineering</b>																
<b>820 - Project Engineering</b>																
<b>Job: 8202 - Engr Mgmt &amp; Sys Eng Support-REIERSEN</b>																
<b>FY03 Actual Cost</b>																
820.110	Apr-Sept MIE Cost PPPL	128*	01APR03A	30SEP03A		100	295,530.00	295,530.00								
820.002	LOE FY04	256*	01OCT03A	30SEP04	1,283	LOE	208,081.42	626,751.30								Reiersen =1467hr 35=8\$ ; Dudek/Gentile=604; Such=86 41=\$30 k; Simmons=1326
L4-200	PDR	0		30JAN04*	1,410		0.00	0.00								
L4-217	EIR	0		30JAN04*	1,410		0.00	0.00								
M-0100	CD-2 CD-3A	0		27FEB04*	1,410		0.00	0.00								
M-0115	CD-3	0		30SEP04*	1,259		0.00	0.00								
M-0120	CD-4	0		28SEP07*	0		0.00	0.00								
<b>Job: 8203 - Design Integration-REIERSEN</b>																
<b>FY03 Actual Cost</b>																
820.150	Apr-Sept MIE Cost PPPL	128*	01APR03A	30SEP03A		100	178,750.00	178,750.00								
820.200	LOE FY04	256*	01OCT03A	30SEP04	1,283	LOE	85,414.57	257,272.80								Brown=1036; Steill= 863

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 BASELINE  
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**February 1st 2004 Status**

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)							
									FY03	FY04	FY05	FY06	FY07	FY08	FY09
<b>Job: 8204 - Systems Analysis-REIERSEN</b>															
<b>FY03 Actual Cost</b>															
820.173	Apr-Sept MIE Cost PPPL	128*	01APR03A	30SEP03A		100	44,620.00	44,620.00							
820.174	LOE FY04	256*	01OCT03A	30SEP04	1,283	LOE	49,889.19	150,254.50							
1501-193	Perform seismic analyses	30	02FEB04	12MAR04	1,424		0.00	0.00							
8204.01	Assess magnetic material in test cell	56*	02FEB04*	19APR04	125		0.00	38,568.00							
8204.02	Model effects local high MU regions on MCWF	29	20APR04	28MAY04	125		0.00	19,284.00							
<b>820.003</b>															
820.003	Proj engr,Sys Integr.,Designers, Deputy PM FY05	255*	01OCT04*	30SEP05	1,028		0.00	933,340.30							
820.004	Proj engr,Sys Integr.,Designers, Deputy PM FY06	254*	03OCT05*	29SEP06	348		0.00	870,153.80							
820.004X	Proj engr,Sys Integr.,Designers, Deputy PM FY07	65	02OCT06	04JAN07	348		0.00	240,404.50							
820.004Z	Proj engr,Sys Integr.,Designers, Deputy 8mo s.o.	187	05JAN07	25SEP07	348		0.00	692,941.22							
820.005	Proj engr,Sys Integr.,Designers, Deputy PM FY07	174*	26SEP07*	30MAY08	348		0.00	375,239.54							
<b>84 - Project Physics</b>															
<b>840 - Project Physics</b>															
<b>Job: 8401 - Project Physcis-ZARNSTORFF</b>															
<b>FY03 Actual Cost</b>															
840.201	Apr-Sept MIE Cost PPPL	128*	01APR03A	30SEP03A		100	210,270.00	210,270.00							
840.202	Project Physics/Engr Analysis FY04	256*	01OCT03A	30SEP04	1,283	LOE	33,135.66	99,806.20							
<b>Job: 8402 - Project Physics MIE ORNL-LYON</b>															
<b>FY03 Actual Cost</b>															
840.301	Apr-Sept MIE Cost ORNL	152*	01APR03A	30SEP03A		100	40,980.00	40,980.00							
840.302	Project Physics/Engr Analysis FY04	256*	01OCT03A	30SEP04	1,283	LOE	10,144.42	30,555.48							
<b>840.203</b>															
840.203	Project Physics/Engr Analysis FY05	255*	01OCT04*	30SEP05	1,028		0.00	95,530.00							
<b>85 - Integrated Systems Testing</b>															
<b>920.001</b>															
920.001	Procedure and Document Preparation	257	03APR06*	11APR07	129		0.00	458,003.27							

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 BASELINE  
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)							
									FY03	FY04	FY05	FY06	FY07	FY08	FY09
920.005	Start-up Testing	55	12JUN07	28AUG07	107		0.00	390,743.50							
920.010	Power Testing and E-Beam Mapping	41	29AUG07	25OCT07	107		0.00	309,371.01							
920.020	Final ISTP	10	11DEC07	01JAN08	107		0.00	67,553.80							
730.9000	First Plasma	0		30MAY08*	0		0.00	0.00							

em//em=610, ee//em=205, ec//em=265  
em//sm=305, ee//sm=530, em//tb=265  
r//rm2=470

em//em=480, ee//em=160, ec//em=208  
em//sm=240, ee//sm=416, r//rm2=368  
em//tb=208

em//em=110, ee//sm=35, ec//em=47  
em//sm=55, ee//sm=94, r//rm2=47  
em//tb=82

## Allocations

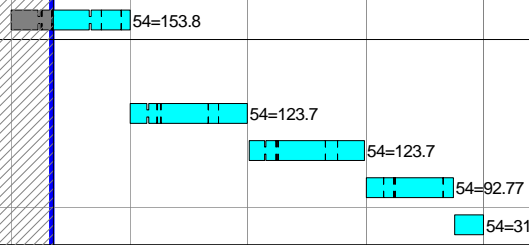
### PPPL Allocations

#### PPPL Allocations

##### Job: 8998 - Allocations

##### FY03 Actual Cost

99.03	Apr-Sept MIE Cost PPPL	128*	01APR03A	30SEP03A		100	60,670.00	60,670.00
99.04	PPPL Allocations FY04	256*	01OCT03A	30SEP04	1,283	LOE	88,285.51	265,920.20
99.05	PPPL Allocations FY05	255*	01OCT04*	30SEP05	1,028		0.00	214,990.60
99.06	PPPL Allocations FY06	254*	03OCT05*	29SEP06	774		0.00	214,619.50
99.07	PPPL Allocations FY07	190*	02OCT06*	29JUN07	519		0.00	170,232.95
99.07X	PPPL Allocations FY07	65*	02JUL07*	28SEP07	519		0.00	56,885.00



## Contingency

### Contingency

#### Contingency

##### CD-4

920.010C	Power Testing a	171*	02FEB04	30SEP04	1,259		0.00	121,720.00
446-1-4C	GFMS-contingenc	171*	02FEB04	30SEP04	1,259		0.00	28,260.00
730.8100C	Cryo stat insta	171*	02FEB04	30SEP04	1,259		0.00	74,340.00
<b>PBR</b>								
171-041CON	*****Increment	171*	02FEB04	30SEP04	1,259		0.00	119,500.00
1407-100C	Second winding	171*	02FEB04	30SEP04	1,259		0.00	108,020.00
730.108C	PBR add Field P	171*	02FEB04	30SEP04	1,259		0.00	23,520.00
<b>PDR</b>								
141TITLE2C	PDR #1,4,26 30%	171*	02FEB04	30SEP04	1,259		0.00	8,060.00
1406-030C	PDR #17 30% con	171*	02FEB04	30SEP04	1,259		0.00	48,280.00
121-000C	**PDR #10,11,24	171*	02FEB04	30SEP04	1,259		0.00	3,400.00



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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	PCTC	Earned value cost (BCWP)	Budgeted Cost (loaded without Conting)							
									FY03	FY04	FY05	FY06	FY07	FY08	FY09
123-037.C	350c conting 30	171*	02FEB04	30SEP04	1,283		0.00	68,320.00							
132-000C	PDR #17 & 25 &	171*	02FEB04	30SEP04	1,259		0.00	11,080.00							
191-038C	PDR#17 30% cont	171*	02FEB04	30SEP04	1,259		0.00	16,960.00							
191-042C	PDR #17,25,3 co	171*	02FEB04	30SEP04	1,259		0.00	2,800.00							
713A.012C	PDR # 20 30% co	171*	02FEB04	30SEP04	1,259		0.00	1,620.00							
P1-000C	PDR # 19 MCWF f	171*	02FEB04	30SEP04	1,259		0.00	4,720.00							
P3-180C	350c cont 30% o	171*	02FEB04	30SEP04	1,259		0.00	12,100.00							
99.104L	Contingency	171*	02FEB04	30SEP04	1,283		0.00	443,000.00							
99.105L	Contingency	255*	01OCT04*	30SEP05	1,028		0.00	1,460,000.00							
99.106	Contingency	254*	03OCT05*	29SEP06	774		0.00	2,820,000.00							
99.107	Contingency	255*	02OCT06*	28SEP07	519		0.00	7,010,000.00							
99.108	Contingency	171*	01OCT07*	30MAY08	348		0.00	3,215,000.00							

Run Date 16FEB04 08:03

 BASELINE  
 Progress Bar  
 Critical Activity

MD21

NCSX Baseline (ECP5)  
First Plasma May 2008

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February 1st 2004  
Status