









































Activity ID	revised	Activity Description	Forecast Start	Forecast Duration (work days)	Forecast Finish	Shifts	Total Float in days (21 days= 1 mo.)	Earned value cost (BCWP)	Percent complet	ECP-45 Budget Baseline	Timeline																							
											FY06			FY07			FY08			FY09			FY10											
											M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A
1408-173		Epoxy for Shell Mold (Hysol)	03JAN06A	520*	31JAN08		420	14,863.29	60	24,772.15	M&S= \$ 18 k																							
1408-183		Tubing (Chem flor and Poly)	01SEP05A	67*	31OCT05A			46,373.37	100	46,373.37																								
1408-184		Vulcanizing tape, felt and RTV	03JAN06A	45	03JUL06		811	25,034.46	83	30,162.00	M&S= \$ 22 k																							
1408-185		Valves and Fittings	01AUG05A	66*	31OCT05A			19,644.55	100	19,644.55																								
1408-186		Manifolds	01SEP05A	209	30SEP05A			75,850.56	100	75,850.56																								
<b>I&amp;C</b>																																		
174-035		Modular Coil local I&C -Procurement	01MAY06	40	26JUN06		816	0.00		18,275.43	41=\$13.33k																							
FY05CV-21		FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A			33,000.00		33,000.00																								
<b>Job: 1411-MCWF Fabrication S005242-HEITZENROEDER</b>																																		
<b>Contract Oversight and Title III</b>																																		
172-031		Title III engr	24MAY04A	340*	30SEP05A			76,273.90	LOE	76,273.90																								
172-031.1	X	Title III engr	01OCT05A	350*	01MAR07		648	67,861.86	LOE	167,147.43	Heitzenroeder =640hr; Williamson = 107 hr ; travel=\$26k																							
FY05CV-23		FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A			275,000.00		275,000.00																								
MCWF-001	X	EIO Project Mgt. & Reporting	29OCT04A	486*	15SEP06		709	682,500.00	LOE	910,000.00	48=909 ;																							
MCWF-001A	X	EIO Project Mgt. & Reporting AMEND #11	18SEP06	75*	29DEC06		709	0.00		129,250.00	48=129,246 ;																							
MCWF-001B	X	EIO Project Mgt. & Reporting AMEND #12	02JAN07*	76*	17APR07		633	0.00		146,000.00	48=146 ;																							
MCWF-011		Pattern A complete	29OCT04A	126*	01APR05A			290,125.00	100	290,125.00																								
MCWF-021		Pattern B complete	01DEC04A	220*	30SEP05A			255,120.00	100	255,120.00																								
MCWF-031		Major Tool Tooling Complete	29OCT04A	82*	28FEB05A			628,622.00	100	628,622.00																								
MCWF-041		Materials (MetalTek)	29NOV04A	282*	31AUG05A			744,750.00	100	744,750.00																								
MCWF-051		C1-MTK-casting upgrade	20DEC04A	63*	31MAR05A			146,248.12	100	146,248.12																								
MCWF-061		C1-MTM - machining/inspection	01APR05A	136*	30SEP05A	M		159,560.00	100	159,560.00																								
C-121.1		First MCWF C-1 Delivered		0	30SEP05A			0.00		0.00																								
MCWF-071		C1-Receive at PPPL		0	03OCT05A			0.00		0.00																								
MCWF-081		C2-MTK-casting	01APR05A	66*	27JUN05A			142,920.00	100	142,920.00																								
MCWF-091	X	C2-MTM - machining/inspection	28JUN05A	125*	16DEC05A			169,040.00	100	169,040.00																								
MCWF-101		C2-Receive at PPPL		0	16DEC05A			0.00	100	0.00																								
MCWF-141		C3-MTK-casting	12MAY05A	102*	19SEP05A			142,920.00	100	142,920.00																								
MCWF-151	X	C3-MTM - machining/inspection	20SEP05A	108*	27FEB06A			167,910.00	100	167,910.00																								
MCWF-161		C3-Receive at PPPL		0	27FEB06A			43,000.00		43,000.00																								
MCWF-201	X	C4-MTK-casting	16MAY05A	122*	31OCT05A			142,920.00	100	142,920.00																								
MCWF-211	X	C4-MTM - machining/inspection	31OCT05A	102*	27MAR06A			167,910.00	100	167,910.00																								
MCWF-221		C4-Receive at PPPL		0	27MAR06A			31,190.00		31,190.00																								
MCWF-261	X	C5-MTK-casting	30MAY05A	128*	30NOV05A			142,920.00	100	142,920.00																								
MCWF-271	X	C5-MTM - machining/inspection	01DEC05A	101*	28APR06A			167,910.00	100	167,910.00	48=155 ;																							
MCWF-281		C5-Receive at PPPL		0	28APR06A			34,480.00		34,480.00																								
MCWF-111		A1-MTK-casting	22APR05A	116*	08SEP05A			142,710.00	100	142,710.00																								
MCWF-121	X	A1-MTM - machining/inspection	09SEP05A	108*	26MAY06		139	117,537.00	70	167,910.00	48=155 ;																							
MCWF-131		A1-Receive at PPPL		0	02JUN06*		135	0.00		29,880.00																								
MCWF-171	X	A2-MTK-casting	17AUG05A	91*	23DEC05A			142,710.00	100	142,710.00																								
MCWF-181	X	A2-MTM - machining/inspection	14NOV05A	144*	14JUN06		159	50,373.00	30	167,910.00	48=155 ;																							

Activity ID	revised	Activity Description	Forecast Start	Forecast Duration (work days)	Forecast Finish	Shifts	Total Float in days (21 days= 1 mo.)	Earned value cost (BCWP)	Percent complet	ECP-45 Budget Baseline	Gantt Chart																							
											FY06			FY07			FY08			FY09			FY10											
											M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A
MCWF-191		A2-Receive at PPPL		0	07JUL06*		143	0.00		25,270.00																								
MCWF-351	X	A3-MTK-casting	26SEP05A	84*	31JAN06A			142,710.00	100	142,710.00																								
MCWF-361	X	A3-MTM - machining/inspection	01MAR06A	93*	11JUL06		178	41,977.50	25	167,910.00																								
MCWF-371		A3-Receive at PPPL		0	16AUG06*		152	0.00		20,410.00																								
MCWF-231	X	B1-MTK-casting	16SEP05A	110*	28FEB06A			142,710.00	100	142,710.00																								
MCWF-241	X	B1-MTM - machining/inspection	01MAR06A	113*	08AUG06		176	11,753.70	7	167,910.00																								
MCWF-251		B1-Receive at PPPL		0	20SEP06*		146	0.00		14,660.00																								
MCWF-381	X	A4-MTK-casting	15DEC05A	71*	14MAR06A			142,920.00	100	142,920.00																								
MCWF-391	X	A4-MTM - machining/inspection	14MAR06A	123*	05SEP06		174	41,977.50	25	167,910.00																								
MCWF-401		A4-Receive at PPPL		0	24OCT06*		142	0.00		9,730.00																								
MCWF-321	X	B2-MTK-casting	31JAN06A	64*	28APR06A			142,710.00	100	142,710.00																								
MCWF-331	X	B2-MTM - machining/inspection	28APR06A	110*	03OCT06		184	3,358.20	2	167,910.00																								
MCWF-341		B2-Receive at PPPL		0	29NOV06*		145	0.00		159,450.00																								
MCWF-471	X	B3-MTK-casting	13FEB06A	65*	12MAY06		245	107,190.00	75	142,920.00																								
MCWF-481	X	B3-MTM - machining/inspection	01AUG06*	65*	31OCT06		191	0.00		167,910.00																								
MCWF-491		B3-Receive at PPPL		0	11JAN07*		147	0.00		21,780.00																								
MCWF-501	X	B4-MTK-casting	28MAR06A	39*	19MAY06		259	92,898.00	65	142,920.00																								
MCWF-511	X	B4-MTM - machining/inspection	25AUG06*	65	28NOV06		192	0.00		167,910.00																								
MCWF-521		B4-Receive at PPPL		0	14FEB07*		142	0.00		0.00																								
MCWF-531	X	B5-MTK-casting	13APR06A	41*	09JUN06		272	78,606.00	55	142,920.00																								
MCWF-541	X	B5-MTM - machining/inspection	02OCT06*	65	29DEC06		201	0.00		167,910.00																								
MCWF-551		B5-Receive at PPPL		0	20MAR07*		145	0.00		0.00																								
MCWF-561	X	B6-MTK-casting	28APR06A	44*	29JUN06		274	71,460.00	50	142,920.00																								
MCWF-571	X	B6-MTM - machining/inspection	13OCT06*	65	23JAN07		201	0.00		167,910.00																								
MCWF-581		B6-Receive at PPPL		0	23APR07*		140	0.00		0.00																								
MCWF-411	X	A5-MTK-casting	13JAN06A	45*	29MAR06A			142,920.00	100	142,920.00																								
MCWF-421	X	A5-MTM - machining/inspection	10NOV06*	65	20FEB07		211	0.00		167,910.00																								
MCWF-431		A5-Receive at PPPL		0	25MAY07*		143	0.00		0.00																								
MCWF-441	X	A6-MTK-casting	31JAN06A	64*	20APR06A			142,710.00	100	142,710.00																								
MCWF-451	X	A6-MTM - machining/inspection	12DEC06*	65	20MAR07		210	0.00		155,000.00																								
MCWF-461		A6-Receive at PPPL		0	29JUN07*		138	0.00		0.00																								
MCWF-291	X	C6-MTK-casting	16JUN05A	155*	03FEB06A			142,920.00	100	142,920.00																								
MCWF-301	X	C6-MTM - machining/inspection	03APR06A	261*	17APR07		226	33,582.00	20	167,910.00																								
MCWF-311		C6-Receive at PPPL		0	03AUG07*		150	0.00		0.00																								
C-501B1	X	Last MCWF Delivered		0	03AUG07		539	0.00		0.00																								

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 LAST MODULAR COIL WINDING FORM DELIVERED  
 LEVEL 2 DOE MILESTONE  
 SEPTEMBER 2007  
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**Job: 1451 - Mod Coil Winding-CHRZANOWSKI**

**Station 1 Prep casing & Install Cladding**

C1RW	C1 rework	03OCT05A	5	07OCT05A	1		46,461.00	100	46,461.00												
C2RW	type C h/w rework	01MAY06*	43	29JUN06	1	813	0.00		53,750.40												
1451TRAIN	Training for winding teams	25JUL05A	3	29JUL05A			0.00	100	0.00												
P1-001	Rec C1, Prep & Instl Cladding>>@125% 1 shift	10OCT05A	23	24OCT05A	1		54,727.68	100	54,727.68												
P1-091	Receive C2, Prep & Instl Cladding	19DEC05A	26*	26JAN06A	1		44,303.36	100	44,303.36												

Gantt Chart																						
FY06			FY07			FY08			FY09			FY10										
M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M

Run Date 08JUN06 12:31

 Forecast  
 zECP-43 baseline  
 Progress Bar  
 Critical Activity

EC45

**NCSX  
 ECP-45 BASELINE  
 MAY 2006**

Sheet 18 of 51











Activity ID	revised	Activity Description	Forecast Start	Forecast Duration (work days)	Forecast Finish	Shifts	Total Float in days (21 days= 1 mo.)	Earned value cost (BCWP)	Percent complet	ECP-45 Budget Baseline	Timeline																							
											FY06			FY07			FY08			FY09			FY10											
											M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A
<b>Job: 1414 Coil Testing-Gettelfinger</b>																																		
<b>Twisted Racetrack Hardware Fabrication</b>																																		
1409-141		Modify Cryostat for TRC	01APR05A	107*	31AUG05A			11,923.20	100	11,923.20																								
1406-020	X	Begin Testing of Twisted RT in Coil test Stand	31AUG05A	0				0.00	100	0.00																								
1406-021		Test Coil	10AUG05A	37*	30SEP05A			30,844.24	100	30,844.24																								
1406-023	X	Hi-pot & Dissect Coil	03OCT05A	0*	31OCT05A			26,060.80	100	26,060.80																								
<b>Production Modular Coils</b>																																		
1409-130	X	Production Cryostat Design	26SEP05A	26*	31OCT05A			6,839.71	100	6,839.71																								
1409-135		Production Cryostat Fabr & Install	31JAN06A	71*	28APR06A			35,291.60	100	35,291.60	41=\$10k; em/tb=265																							
1409-136	X	Valve/pump repairs&safety mods to cryo pp sys	01DEC05A	38*	31JAN06A			23,871.20	100	23,871.20																								
162-100		Kickless cable testing	01FEB06A	11*	08MAR06A			0.00	100	0.00																								
P2-021	EC45	Test Coil (Coil Test Stand) A1**SCOPE DELETED**	01MAY06	7	09MAY06			849	0.00	0.00																								
P1-051	EC45	Test Coil (Coil Test Stand) B1**SCOPE DELETED**	01MAY06	7	09MAY06			849	0.00	0.00																								
1409-199		ACC review		0	28APR06*			827	0.00	0.00																								
P1-021	EC45	Set-up and Test Coil C1	01APR06A	49*	09JUN06			827	40,543.52	99,371.41	EM/TB=454,EE/TB=53,EE/SM=76,EE/EM=76,EM/EM=131, m&s=9.7																							
P1-021.2	EC4X	Test Coil C1 etc	01MAY06*	44*	30JUN06			812	0.00	148,631.10	EM/TB=454,EE/TB=53,EE/SM=76,EE/EM=76,EM/EM=131, m&s=9.7																							
FY05CV-19		FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A			88,000.00		88,000.00																								
<b>Job: 1421-Mod Coil Interface Hardware-WILLIAMSON</b>																																		
<b>Coil-to-coil Interface Design</b>																																		
1403-11.1	EC45	Describe interfaces as part of coil FDR's	01NOV04A	441*	07AUG06			787	34,943.03	90	39,257.84	Hargrove,Lovett,=80 williamson=40																						
1403-16	EC45	Assembly bolts, nuts,washers	01OCT04A	454*	15SEP06			147	13,955.55	60	21,107.48	ornl=80+8 hrs																						
1403-17	EC45	Assembly shims	01OCT04A	454*	15SEP06			147	17,822.57	60	27,552.51	ornl=80+48=128																						
1403-18	EC45	Eccentric ball assembly	08NOV04A	428*	15SEP06			759	21,649.55	60	34,076.06	ornl=80+88=168																						
1403-19	EC45	Top assembly dwgs for mod coil shell	01OCT04A	454*	15SEP06			759	24,009.80	60	37,864.56	ornl=120+72=192																						
1403-19A	EC45	Bladder Details	01JUL05A	268*	15SEP06			147	9,035.64	20	29,602.52	ornl=80+56=136																						
1403-20		3 coil assembly specification	29SEP06*	40	27NOV06			232	0.00		27,491.20	ornl=160																						
1421-10	EC45	add'l analysis of coil to coil joints/friction	01MAY06	22*	31MAY06			834	0.00		13,496.00	ornl=80																						
1421-15	EC45	develop design fix for issue	01MAY06	44*	30JUN06			812	0.00		13,496.00	ornl=80																						
1421-20	EC45	rework type A,B,C design as req'd	01MAY06	53*	14JUL06			803	0.00		13,496.00	ornl=80																						
1421-25	EC45	detailed design of add'l hardware	01MAY06	75*	15AUG06			781	0.00		13,496.00	ornl=80																						
1421-30	EC45	check and promote 6 coil dwgs	01MAY06	103*	25SEP06			753	0.00		26,992.00	ornl=160																						
1421-100		Submet Requisition for - Assy bolts,nuts,washers	18SEP06*	10	29SEP06			147	0.00		2,699.20	williamson=16 hrs																						
1421-105		Procurement lead time for-Assy bolts,nuts,washer	02OCT06	40	28NOV06			147	0.00		0.00																							
1421-110		Deliver - Assy bolts,nuts,washers	29NOV06	84	03APR07			147	0.00		449,000.00	m&s=\$449k																						
1421-200		Submet Requisition for - Assembly shims	18SEP06*	10	29SEP06			147	0.00		2,699.20	williamson=16 hrs																						
1421-205		Procurement lead time for - Assembly shims	02OCT06	40	28NOV06			147	0.00		0.00																							





Activity ID	revised	Activity Description	Forecast Start	Forecast Duration (work days)	Forecast Finish	Shifts	Total Float in days (21 days= 1 mo.)	Earned value cost (BCWP)	Percent complet	ECP-45 Budget Baseline	FY06 FY07 FY08 FY09 FY10																							
											FY06		FY07		FY08		FY09		FY10															
											M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A
171-104		Plan WBS 16 interface	22FEB06A	48*				0.00	5	0.00	UNFUNDED EAC= gettelfinger 16, messineo 80																							
151-011		Final Design Cryostat WBS 171	02OCT06*	181*	22JUN07		163	0.00		243,232.28	Gettelfinger =976hr ;Messineo =593hr ;																							
171-199		Cryostat FDR		0	22JUN07		163	0.00		0.00																								
<b>Job: 1751 - Cryostat Procurement</b>																																		
<b>171 - Cryostat</b>																																		
151-031		Title III engr	25JUN07	405	11FEB09		163	0.00		33,266.14	Gettelfinger =34hr ; mes																							
151-036.8		Prep Spec, Solicit bids, and Select Vendor	25JUN07	65	25SEP07		163	0.00		0.00																								
151-036.9		Award Cryostat Procurement		0	01OCT07*		230	0.00		0.00																								
151-037		Cryostat Procurement [A/1]	02OCT07	141	28APR08		230	0.00		507,236.35	41=358.47\$K ; 35=02\$K ;																							
<b>Job: 1752 - Base Support Structure Procurement</b>																																		
<b>172 - Base Support Structure</b>																																		
161-031		Title III engr WBS 172	06SEP06	240	21AUG07		527	0.00		10,620.95	Gettelfinger =60hr ;																							
161-036.8		Prep Spec, Solicit bids, and Select Vendor	06SEP06	65	07DEC06		366	0.00		0.00																								
161-036.9		Award Mach Base&Coil struct as one Procurement		0	26FEB07		315	0.00		0.00																								
161-037		Machine Base&supports Procurement [A/1]	27FEB07	90	03JUL07		315	0.00		220,272.00	41=238\$K ; 35=02\$K ;																							
<b>18 - Field Period Assembly</b>																																		
<b>Job: 1801-Field Period Assly -CHRZANOWSKI (ORNL)</b>																																		
<b>Prior Costs</b>																																		
1801-001		Apr-Sept MIE Costs PPPL	01APR03A	42	30SEP03A			7,750.00	100	7,750.00																								
1801-002		Apr-Sept MIE Costs ORNL	01APR03A	42	30SEP03A			53,050.00	100	53,050.00																								
FY06CV-130	EC45	ECP45 FY06 cv	01OCT05A	251*	30MAR06A			3,890.00	100	3,890.00																								
<b>Job: 1802 - FP Assy Oversight&amp;Support-VIOLA</b>																																		
<b>Oversight and Supervision</b>																																		
181.200		HP Coverage in the TFTR TC LOE FY04	02FEB04A	171*	30SEP04A			61,119.60	LOE	61,119.60																								
181.201		D-Site Shift Supervisor LOE FY04	01JUL04A	64*	30SEP04A			25,920.40	LOE	25,920.40																								
181.210		HP Coverage in the TFTR TC LOE FY05	01OCT04A	249*	30SEP05A			136,539.00	LOE	136,539.00																								
181.222		HP Coverage in the TFTR TC LOE FY06	01OCT05A	250*	02OCT06		748	83,682.78	LOE	147,328.84	sh/tb=1300 (.75 fte)																							
181.220		HP Coverage in the TFTR TC LOE FY07	02OCT06*	250*	01OCT07		499	0.00		150,543.22	sh/tb=1300 (.75 fte)																							
181.221		HP Coverage in the TFTR TC LOE FY08	01OCT07*	250*	30SEP08		250	0.00		154,583.00	sh/tb=1300 (.75 fte)																							
181.100		PPPL EM LOE FY04	13OCT03A	242*	30SEP04A			77,518.74	LOE	77,518.74																								
181.110		PPPL EM LOE FY05	01OCT04A	249*	30SEP05A			9,625.20	LOE	9,625.20																								
181.2A		Procedure for VV prep	01MAY06*	20	26MAY06		250	0.00		0.00																								
181.2B		Procedure for MC HP subassy	01AUG06*	15	21AUG06		299	0.00		0.00																								
181.2C		Procedure for MC instl on VV	01SEP06*	15	22SEP06		332	0.00		0.00																								
181.2D		Procedure for TF HP sub assy	02OCT06*	15	20OCT06		385	0.00		0.00																								
181.2E		Procedure for Final FP assy	02JAN07*	15	22JAN07		310	0.00		0.00																								
FY05CV-28		FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A			57,000.00		57,000.00																								
181.120		PPPL EM LOE FY06	01DEC05A	209*	02OCT06		748	61,519.54	LOE	127,369.65	Viola=1178 85% for FY06																							
181.121		PPPL EM LOE FY07	02OCT06*	249*	28SEP07		500	0.00		260,099.10	Viola=1467 (85%)																							
181.120A	EC45	Metrology Engineering Supervision FY06	01MAY06*	107*	29SEP06		749	0.00		37,478.16	Raftopolous=216 25% for balance of FY06																							
181.122		PPPL EM LOE FY08	01OCT07*	186*	30JUN08		314	0.00		200,288.00	Viola=1100(85%)																							
181.120B	EC45	Metrology Engineering Supervision FY07	02OCT06*	249*	28SEP07		500	0.00		76,416.30	Raftopolous=431 25% for FY07																							
FY06CV-135	EC45	ECP45 FY06 cv	01OCT05A	251*	30MAR06A			-14,280.00	100	-14,280.00																								

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Activity ID	revised	Activity Description	Forecast Start	Forecast Duration (work days)	Forecast Finish	Shifts	Total Float in days (21 days= 1 mo.)	Earned value cost (BCWP)	Percent complet	ECP-45 Budget Baseline	Gantt Chart																							
											FY06			FY07			FY08			FY09			FY10											
											M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A
431-200		Condition/spare parts inventory	01OCT04A	391*	30JUL07		543	16,945.08	95	17,836.93	Hatcher=24;cropper=120																							
431-210		Organize & verify documentation	01OCT04A	371	31JUL07		542	43,338.49	95	45,619.46	raki=104;cropper=64;nelson=200																							
431-215		Document status	01OCT04A	371	30JUL07		543	5,775.57	90	6,417.30	raki=40																							
431-225	EC45	Reactivate DF & PEI units	01JUL05A	186	30JUL07		543	13,150.74	90	14,611.93	Hatcher=16;cropper=24;wisowaty=80 raki=16																							
431-230	EC45	Load test	01JUL05A	186	27JUL07		544	16,957.18	90	18,841.32	Hatcher=40;mg wisowaty=120 raki=16																							
431-240		Simulate each of 6 pwr loops in PSCAD	02JUL07*	40	27AUG07		523	0.00		19,106.72	Hatcher=80 ee//tb=64																							
431-250		c-site dc sys DGS dsn documentation	02JUL07*	40	27AUG07		523	0.00		7,482.72	raki=16;jones=40																							
431-261	EC45	Redo power loop design	02JUL07*	40	27AUG07		242	0.00		50,392.96	raki=128;jones=240																							
431-265		Fabricate bus components	28AUG07*	55	13NOV07		242	0.00		18,266.74	raki=16;ee//sm=40;ee//tb=120																							
431-275		Power cabling & Installation	14NOV07*	88	27MAR08		242	0.00		220,005.80	raki=40;ee//sm=240;ee//tb=520 powers=90;m&s=7																							
431-276	EC45	Maint of C-site rectifiers	02OCT06*	249	28SEP07		500	0.00		21,357.59	ee//tb=173; 41=\$5k																							
FY05CV-35		FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A			69,000.00		69,000.00																								

### 44 - Control and protection Systems

#### Job: 4401 - Control & Protection-RAMAKRISHNAN

##### 441 - Electrical Interlocks

441-095		Design Interlock sys	03OCT06*	118	27MAR07		212	0.00		32,679.20	raki=80;vankirk=160											
441-097		Install Interlock sys	28MAR07	119	13SEP07		297	0.00		29,272.00	raki=80;ee//sm=120											
441-100		PLC Specification	28MAR07	85	26JUL07		212	0.00		14,118.32	raki=40;cropper=56											
441-105		Prep Block diagrams	28MAR07	85	26JUL07		212	0.00		17,224.40	raki=40;cropper=80											
441-110		PLC CWD's & Cabling	27JUL07*	85	23NOV07		212	0.00		22,685.24	marsala=40;cropper=120											
441-115		deliver PLC	27JUL07*	85	23NOV07		460	0.00		70,250.00	M&S=50											
441-120		Program PLC Logic	26NOV07	45	07FEB08		415	0.00		23,004.80	lawson=40;cropper=120											
441-125		Program Control pages	26NOV07	97	21APR08		363	0.00		24,097.84	schneider=32;cropper=120;sichta=16											
441-130		Pre-commissioning tests	14SEP07	214	24JUL08		297	0.00		24,377.02	raki=40;cropper=120;M&S=1											
441-135		Install I/O Cabling	26NOV07	248	21NOV08		212	0.00		119,291.33	raki=120;ee//sm=80;Powers=30 k ea//sm=160;ee//tb=160;41=\$8k											

##### 442 - Kirk Key Interlocks

442-1-2		Kirk Keys-Dsn	02OCT06*	41	29NOV06		288	0.00		16,339.60	EA/DM =80hr ; EE/EM =40hr ;											
442-1-4		Kirk Keys-Procure	30NOV06	158	19JUL07		288	0.00		13,710.00	41=10\$K ;											
442-1-6		Kirk Keys-Install	20JUL07	40	14SEP07		288	0.00		44,123.84	EE//EM =16hr ; EE//SM =16hr ; EE//TB =60hr ;											
442-1-8		Kirk Keys-Commission	01OCT07	30	09NOV07		288	0.00		7,202.24	EE//EM =16hr ; EE//SM =20hr ; EE//TB =20hr ;											

##### 443 - Real Time Control Systems

443-1-2		Develop Control Algorithms-Dsn	23APR07*	142	09NOV07		262	0.00		13,819.68	EE//EM =80hr ;											
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##### 444 - Instrument Systems

444-2-2		DC Potential Transducers (DCPTs)-Dsn	02OCT06*	95	21FEB07		454	0.00		11,224.08	EA/DM =60hr ; EE//EM =24hr ;											
444-2-4		DC Potential Transducers (DCPTs)-Procure	22FEB07	109	26JUL07		454	0.00		8,226.00	41=6k ;											
444-2-6		DC Potential Transducers (DCPTs)-Install	27JUL07	51	08OCT07		454	0.00		19,328.29	EE//EM =16hr ; EE//SM =24hr ; EE//TB =160hr ;											

Gantt Chart																																		
FY06			FY07			FY08			FY09			FY10																						
M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M

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	Forecast
	zECP-43 baseline
	Progress Bar
	Critical Activity

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Activity ID	revised	Activity Description	Forecast Start	Forecast Duration (work days)	Forecast Finish	Shifts	Total Float in days (21 days= 1 mo.)	Earned value cost (BCWP)	Percent complet	ECP-45 Budget Baseline	Timeline																							
											FY06			FY07			FY08			FY09			FY10											
											M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A

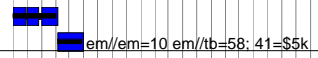
## 6 - Facility Systems

### 61 - Water Systems

#### Job:6101 - Water Systems

##### 613 - Vacuum Pumping System

623.011	EC45	Design WBS 612 **N/R**	01NOV07*	59	04FEB08		214	0.00		0.00
632.021	EC45	WBS 612 Assembly/Fabrication/Installation	05FEB08	40	31MAR08		214	0.00		13,802.48

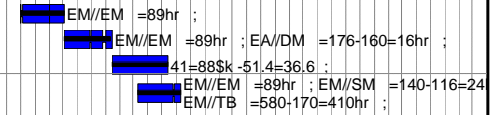


### 62 - Cryogenic Systems

#### Job: 6201 - Cryogenic Systems

##### 621 - LN2-LHe Supply System

631-001		Preliminary Design	02JUL07*	65	02OCT07		240	0.00		15,792.79
631-010		Final Design**reduced scope	03OCT07	65	14JAN08		240	0.00		18,149.92
631-020		Procurement **reduced scope	15JAN08	88	15MAY08		240	0.00		123,078.00
631-015		Fab/Assy/Installation**reduced scope	11MAR08	65	10JUN08		240	0.00		71,991.50

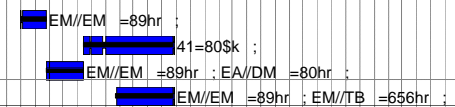


##### 622 - LN2 Coil Cooling Supply

632-001		**deleted scope	01MAY06	0	28APR06		856	0.00		0.00
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##### 623 - GN2 Cryostat Cooling System

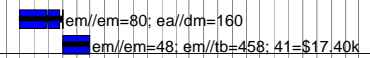
633-001		Preliminary Design	02JUL07*	40	27AUG07		250	0.00		15,779.70
633-020		Procurement	14NOV07	130	27MAY08		250	0.00		112,329.75
633-010		Final Design	28AUG07	55	13NOV07		250	0.00		25,644.50
633-015		Fab/Assy/Installation	24JAN08	88	27MAY08		250	0.00		72,266.88



### 63 - Utility Systems

#### Job: 6301 - Utility Systems

640.011		Design GN2, Air & Vent Systems	01OCT07*	59	02JAN08		249	0.00		34,014.40
640.021		Assembly/Fabrication	03JAN08	40	27FEB08		249	0.00		72,889.52



### 64 - PFC/VV Heating & Cooling\*ELIMINATED\*

#### Job: 6401 - PFC/VV Heating & Cooling

650.001		Eliminated scope	01MAY06	0	28APR06		856	0.00		0.00
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### 65 - Facility Systems Integration

#### Job: 6163 - Facility Systems Support FY04

65-03		LOE WBS 6	01OCT03A	250*	30SEP04A			15,000.00	LOE	15,000.00
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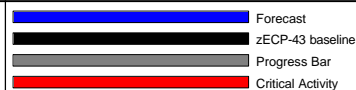
#### Job: 6501 - Facility Systems Integration-DUDEK

##### Prior Costs

6501-001		Apr-Sept MIE Cost PPPL	01APR03A	0	30SEP03A			9,380.00	100	9,380.00
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Timeline																						
FY06			FY07			FY08			FY09			FY10										
M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M

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Activity ID	revised	Activity Description	Forecast Start	Forecast Duration (work days)	Forecast Finish	Shifts	Total Float in days (21 days= 1 mo.)	Earned value cost (BCWP)	Percent complet	ECP-45 Budget Baseline	Timeline																							
											FY06			FY07			FY08			FY09			FY10											
											M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A
8204FY06.1	EC45	Systems Analysis FY06	01MAY06*	44*	30JUN06		812	0.00	LOE	75,019.86	[redacted] fan=431																							
8204FY06.2	EC4X	Systems Analysis FY06	01MAY06*	107*	29SEP06		749	0.00	LOE	26,074.19	[redacted] brooks add'l 25%																							
8204FY07	EC45	Systems Analysis FY07	02OCT06*	122*	30MAR07		627	0.00	LOE	76,657.66	[redacted] brooks=431 40% half year																							
FY05CV-46		FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A			9,000.00		9,000.00																								
<b>Job: 8205 - Dimensional Control Coordination</b>																																		
<b>Metrology</b>																																		
740.135		Gary Puhl subcontract for metrology support	30SEP05A	77	30SEP05A			12,810.00		12,810.00																								
METFY05		Dimensional control FY05 ECP24	01FEB05A	172*	30SEP05A			96,648.84	LOE	96,648.84																								
FY05CV-47		FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A			-20,000.00		-20,000.00																								
METFY06R		Metrology for FP & machine assy FY06	03OCT05A	249*	29SEP06		749	107,905.00	LOE	189,307.03	[redacted] raftoplous (measurement) 25%=415hrs stratton=707 hrs 40%																							
METFY07R		Metrology for FP & machine assy FY07	03OCT06*	249*	01OCT07		499	0.00		132,492.61	[redacted] raftoplous (measurement) 25%=415hrs																							
METFY08R	EC45	Metrology for FP & machine assy FY08	03OCT07*	247*	29SEP08		251	0.00		75,799.75	[redacted] raftoplous (measurement) 25%=415																							
<b>84 - Project Physics</b>																																		
<b>Job: 8401 - Project Physcis-ZARNSTORFF</b>																																		
<b>FY04 Actual Cost</b>																																		
840.202		Project Physics/Engr Analysis FY04	01OCT03A	256*	30SEP04A			99,806.20	LOE	99,806.20																								
840.203		Closeout cost FY04 ECP-21	01OCT03A	256*	30SEP04A			14,000.00	LOE	14,000.00																								
<b>Prior Costs</b>																																		
840.201		Apr-Sept MIE Cost PPPL	01APR03A	128*	30SEP03A			210,270.00	100	210,270.00																								
FY06CV-235	EC45	ECP45 FY06 cv	01OCT05A	251*	30MAR06A			530.00	100	530.00																								
<b>Job: 8402 - Project Physics MIE ORNL-LYON</b>																																		
<b>FY04 Actual Cost</b>																																		
840.302		Project Physics/Engr Analysis FY04	01OCT03A	256*	30SEP04A			60,876.00	LOE	60,876.00																								
840.303		Closeout cost FY04 ECP-21	01OCT03A	256*	30SEP04A			44,000.00	LOE	44,000.00																								
<b>Prior Costs</b>																																		
840.301		Apr-Sept MIE Cost ORNL	01APR03A	152*	30SEP03A			40,980.00	100	40,980.00																								
FY06CV-240	EC45	ECP45 FY06 cv	01OCT05A	251*	30MAR06A			610.00	100	610.00																								
<b>85 - Integrated Systems Testing</b>																																		
<b>Job: 8501 - Integrated Systems Testing</b>																																		
920.001	EC45	Procedure and Document Preparation	27NOV07	250	26NOV08		121	0.00		371,980.70	[redacted] em//em=1162;em//sm=1162																							
920.000	EC45	Startup Personnel	21OCT08	72	10FEB09		121	0.00		435,467.96	[redacted] em//sm=855, ee//sm=0, em//tb=125 r///rm2=428;ee//tb=250																							

Timeline																						
FY06			FY07			FY08			FY09			FY10										
M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M

