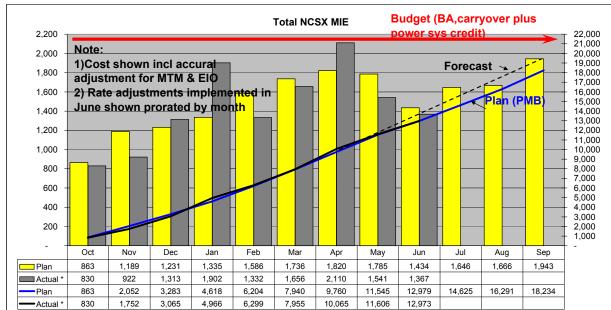
	PPPL COS					ORK				TURE		7/19/2	MME	
		**** (	Cumula	-          / 4										
			Jumula											
			CUMU	LATIVE TO	JNE FYO		) <i>(</i> <b>k</b> )		ECP30	EAC	FY05	Variance E	EAC	
		Budente									UNDER			Change from
		Budgete	a Cost			VARIA	ANCES		Budget Thru FY05	Thru FY05 Thru FY05	(OVER)			
		BCWS	BCWP	ACWP	Sch Var	SPI	Cst Var	СРІ			(,	Schedule	Cost	May Report
	· · · · · · · · · · · · · · · · · · ·	25,069	23,851		-1,218		-1,357	.95	29,403	30,784	• • •			
	Vacuum Vessel Systems	5,710	5,135	5,175	-575	.90		.99	7,302	7,445	(143)			
	1201 - Vacuum Vessel Prelim Dsn	424	424	424	0	1.00	0	1.00	424	424				
	1202 - Vacuum Vessel R&D 1203 - Vacuum Vessel Final Dsn	1,791 937	1,791 855	1,771 910	-82	1.00 . <b>91</b>	21 - <b>55</b>	1.01 .94	1,791 944	1,771	21 (62)	Final design tasks; Heater tape		
		937	600	910		.91	-55	.94	944			rinal design tasks, neater tape dsn, mag diag interface dwgs, thermal insulation. Final FDR slipped to August 8th due to manpower.		
	1204-VV Sys Procurements (non VVS/				-3				257	20	237			
CLOSED	1206 - VV Field Weld Joint R&D	16				1.00			19	16	3			
	1250 - Vacuum Vessel Fabrication	2,540	2,048	2,054 (1	) -492	.81	-6	1.00	3,867	4,209		Behind in fabricating the production panels However MTM is still forecasting 1st delivery by Nov 05		
13 (	Conventional Coils	1,116	994		-121	.89	-146	.87	1,677	1,700	(23)			
	1301 - TF Design	837	791	908	-47	.94	-118	.87	837	969		Successful conductor FDR held in May. Wedge casting FDR planned for July. Comprehensive FDR slipped another month to August 12th.		
	1302 - PF and CS Design		20		20		20		-	41	(41)			
	1350 - TF Coil Fabr Prep	147	184	232	37	1.25	-48	.79	381	427	(45)		Technician time for setting up fabr facility underestimated.	
	1351 - TF Coil Fabrication	131			-131				459	263	196	TF procurements and fabrication startup slipped due to 3 month delay in the final design.		TF fabrication and procurements delayed due to Final design slip.
14	Modular Coils	15,552	15,031		-521	.97	-1,126	.93	17,135	18,275	(1,132)			
	1401 - Mod Coil Prel.Dsn	303	303		0	1.00	-1	1.00	303	304	(1)			
CLOSED	1402 - Mod.Coil Analyses	239	239		0	1.00		1.00	239	239	(0)			
	1403 - Modular Coil Final Design	2,919	2,678	2,824	-241	.92	-146	.95	3,141	3,109		FDR held on June 30th for component details. Fabrication dwgs to updated and released for fab in July. Assy drawings and analyses will not be completed until August.	Manpower under estimated.	
CLOSED	1404-MCWF R&D & 1st Prod Casting	2,534	2,534	2,552	0	1.00	-18	.99	2,534	2,552	(18)			
CLOSED	1405-Mod Coil Winding R&D Prep	168	168	168		1.00	0	1.00	168	168	0			
CLOSED	1406 - Mod. Coil Winding	2,214	2,214	2,250	0	1.00	-36	.98	2,214	2,250	(36)			
CLOSED	1410 MC Twisted Racetrack Fabr	799	775	1,016	-24	.97	-240	.76	799	1,026	(226)	TRC fabrication and warm testing completed. To be cold tested and dissected by August.	Unplanned overtime and time expended on developing a new approach for installing the outer bag re enforcement. JOB CLOSED. COST TO BE RECONCILED IN NEXT ECP.	
CLOSED	1407 -Mod Coil Winding Facility	2,523	2,523	2,546	0	1.00	-23	.99	2,523	2,546	(23)			

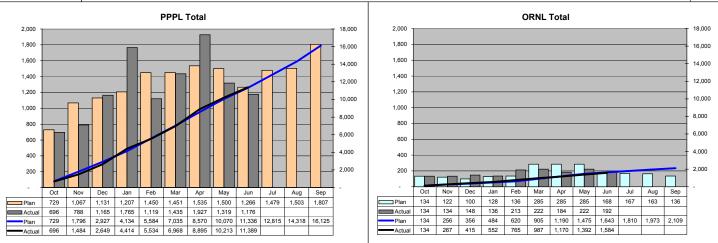
	Prince	tonUn	iversity	Plasma	Phys	ics Lab	orato	ory					
PPPL COS	T PERFC	RMA	NCE RÉF										
			N	7/19/2	2/10/55								
	<u>**** C</u>	umula	tive to d										
			JL										
		CUMU	ATIVE TO I	DATE (from	4/1/03)	) (k)		ECP30	EAC	FY05	Variance E	Explanation	EAC
	Budgeted	l Cost			VARIA	NCES		Budget	Thru FY05	UNDER		Change from	
	Duugotot							Thru FY05	Thru FY05	(OVER)			, v
	BCWS	BCWP	ACWP	Sch Var	SPI	Cst Var	СРІ				Schedule	Cost	May Report
CLOSED 1412 - Complete Winding Facilities	310	310	526	0	1.00	-216	.59	310	526	(216)		Continued cost variance due to modifications and punch list tasks in response to experienced gained in TRC fab. (+89). JOB CLOSED. COST TO BE RECONCILED IN NEXT ECP.	
1415 - Dimensional Control Testing		7	6			1	1.11		8				
1408-Mod Coil Winding Supplies	339	329	353	-9	.97	-23	.93	596	553	43		Tom Meighan support (CC orders ?) not estimated.	Winding component procurements delayed due to lack of signed off dwgs.
1409 - Mod. Coil Test Stand	483	437	769	-46	.91	-332	.57	488	872	(384)	Ready for TRC testing by mid July	Gettelfinger engr oversight underestimated by factor of 5. 2 mm of design support not estimated. JOB TO CLOSED. COST TO BE RECONCILED IN NEXT ECP.	nuk of argines of singles.
1411-MCWF Fabrication S005242	2,593	2,489	2,575 (2)	-104	.96	-86	.97	3,420	4,013	(593)	Pattern B fabrication and C-1 machining. C-1 delivery forecast by early August.		
CLOSED 1413 - Mod Coil Fracture Analysis	23	23	28	0	1.00	-5	.83	23	28	(5)			
1451 - Mod Coil Winding	104		1	-104		-1		377	-	296	Prep for winding operations delayed due to late casting delivery.		Winding of C-1 coil slippe due to casting delivery
15 Structures	35	35	36	0	1.00	-1	.97	35	- 36	(1)			
1501 - Structures Design	35	35		0	1.00	-1	.97	35	36	(1)			
16 16 - Coil Services									-				
17 Cryostat and Base	206	189	312	-17	.92	-123	.60	241	343	(103)			
1701-Cryost&Base Sprt Strct Dsn	206	189	312	-17	.92	-123	.60	241	343	(103)	PDR for Base support structure slipped to July 27.	Designer support underestimated by factor of 2. 1 1/2 MM of analysis (Dahlgren) req'd but not estimated.	
1751 - Cryostat Procurement								-	-				
1752 - Base Support Structure Procure 18 Field Period Assembly	1,125	1,119	1,065	7	00	52	1.05	- 1,512	- 1,527	(15)			
CLOSED 1801-Field Period Assembly	1,125	1,119	61	- <b>7</b>	. <b>99</b> 1.00	<b>53</b> 0	1.05	1,512	1, <b>52</b> 7 61	(15)			
1802 - FP Assy Oversight&Support	273	273	319	0	1.00	-46	.86	311		(64)		HP higher than planned charges and rates plus OT to support the TRC fabrication.	
1803- FP Assy Toolg/Constructability	450	444	332	-7	.99	111	1.34	758	717	41			
1804-FP Assy Measurement	341	341	353		1.00	-12	.97	382	374	8			
19 1901 - Stellarator Core Mngtt∬	1,326	1,349	1,322	23	1.02	27	1.02	1,502	1,457	44			
2 - Plasma Heating,Fueling & Vac			347				1.00	348	347				
CLOSED 2001-VPS Gas& Cond Sys Oversight CLOSED 2501 - Neutral Beam Refurbishment	64 284	64 284	63 284	0 0	1.00 1.00	1 0		64 284	63 284	1			
								284					
3 - Diagnostics	347	322	335	-25	.93	-13	.96	493	466	21			

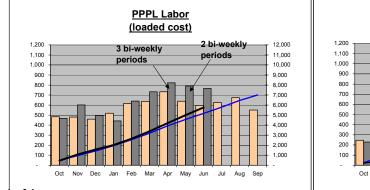
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			405)												
						JNE FY0	Variance E	EAC							
					ATIVE TO	DATE (from				ECP30	EAC	FY05	valiance c		
			Budgete	d Cost			VARIA	NCES		Budget Thru FY05	Thru FY05	UNDER (OVER)			Change from
			BCWS	BCWP	ACWP	Sch Var		Cst Var	СРІ		Thru FY05	· ·	Schedule	Cost	May Report
	31	3101 Magnetic Diagnostics	77	52	73	-25	.68	-21	.72	206	179	27	Fabrication of MC co-wound loops not yet started.	estimated for work scope	
	36	36 - Edge and Divertor Diagnosti									-			completed	
		38 - Electron Beam (EB) Mapping								-	-				
		3901 - Diagnostics sys Integratio		270	262		1.00	7	1.03	287	287	(1)			
4 - 1		-			399	-111	.78	3	-	614	509				
		4101 - AC Power	81		81	0	1.00	1	1.01	81	81	1			
	43	4301 - DC Systems	167	145	154	-22	.87	-9	.94	233	234	(1)	Power loop simulation and design documentation		
		4401 - Control & Protection	1		24	0		-23	.04	1	24	(23)			
	45	4501 - Power Sys Dsn & Integr	262	173	138	-89	.66	35	1.25	298	168	130	Power systems design 2 months behind. CDR held on July 7th. RAKI ONLY CHARGED 15% IN JUNE COMPARED TO 70% REQUESTED.		
	46	4601 - FCPC Bldg Mods	1	1	1		1.00	0	.98	1	1	(0)			
5 - (					33	0			1.12	40	36				
		5801 -Central I&C Integr	37 24		33	0	1.00	4		40	36	4			
6-		ility Systems 61 - Water Systems	24	24	24		1.00	U	1.01	24	24	0			
		6163 - Facility Systems Support FY04	15	15	15		1.00	0	1.01	15	15	0			
		62 - Cryogenic Systems								-	-				
		63 - Utility Systems								-	-				
CLC	SED	6501 - Facility Systems Integration	9	9	9		1.00	0	1.00	9	-				
7 -	Tes	t Cell Prep & Machine Assy	652	628	597	-24	.96	31	1.05	725	731	(6)			
		7101 - Shield Wall Modif	32			0	1.00		1.00	32	32	(0)			
		7201 - Control Room Walls&Floo	48			-48				48	-	48	On hold awaiting FED. The control room walls have been determined to be a GPP project The budgeted amount of \$39.6k will be redistributed TBD. No schedule impact.		
		7301 - Platform Design &	25	86	4	60	3.40	81	19.84	70	73	(3)	Work on nut plates started ahead of plan.		
	+	7401 - TC Prep & Mach Assy Pla	547	510	560	-37	.93	-50	.91	575	625	(50)			
		Machine Assembly								-	-				
		7601 - Tooling Design & Fabricat					!			-	-				
8 - 1		ect Oversight & Support Project Management and Control	5,749 2,639	5,749 2,639		0	1.00 1.00	-27 -27	1.00 .99	6,348 2,934	6,348 2,934				
		8101 - Project Management & Control	1,789		1,809	0	1.00	-27	.99	1,969	1,969				
		8102 - NCSX MIE Management ORNL			216	0	1.00	1	1.00	242	242				
┠╫─┼		8998 - Allocations	633		642	0	1.00	-9	.99	724	724				
	82 F	Project Engineering	2,640	2,640	2,639	0	1.00	0	1.00	2,943	2,943				

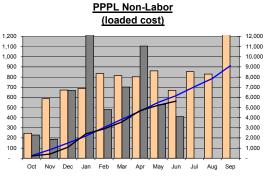
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	Budgete	d Cost			VARIA	NCES		Budget	Thru FY05	UNDER		Change from	
	BCWS	BCWP	ACWP	Sch Var	SPI	Cst Var	СРІ	Thru FY05	Thru FY05	(OVER)	Schedule	Cost	May Report
8202 - Engr Mgmt & Sys Eng Support	1,473	1,473	1,472	0	1.00	2	1.00	1,634	1,634				
8203 - Design Integration	683	683	666	0	1.00	17	1.03	722	722				
8204 - Systems Analysis	424	424	440	0	1.00	-16	.96	490	490				
8205 - Dimensional Control Coord.	60	60	62	0	1.00	-2	.97	97	97				
84 Project Physics	470	470	470		1.00	0	1.00	470	470				
CLOSED 8401 - Project Physcis	324				1.00	1	1.00	324	324				
CLOSED 8402 - Project Physics MIE ORNL	146	146	146		1.00	-1	1.00	146	146				
85 - Integrated Systems Testing									· ·				
				1		1	1						
Subtotal	32,740	31,362	32,719	-1,378	.96	-1,357	.96	37,996	39,244	(1,240)		Note: PPPL overhead rates changed in June to reflect severance cost and current estimate forecast. Net impact shows an increase of \$162k to the NCSX MIE project.	
Contingency/Management Reser	ve							3,247				NOOX MIL Project.	
DCMA QA Inspection services								75					
TOTAL PROJECT								41,318	39,244	2,073			
								41,310	59,244	2,073			
(1) Reflects add'l accural of \$65					-								
(2) Reflects accural reduction of	\$282k bas	sed on E	IO's June ea	arned valu	e report	t							
Thru FY2004	20,640	19,652	19,744	-988	0.95				FY05 un	der-run			
Thru Oct	20,637	20,832	20,917	195	1.01	-85	1.00						
	21,812	21,906	22,158	94	1.00	-252	0.99						
Thru DECEMBER	23,813	23,042	23,434	-771	0.97	-392	0.98						
Thru JANUARY (ecp-21) Thru Feb (ecp-24)	25,866 26,637	24,310 25,856	24,639 26,285	-1556 -781	0.94 0.97	-329 -429	0.99 0.98						
Thru Mar (ecp-29)	28,440	27,282	28,004	-1158	0.96	-722	0.97						
Thru Mar (ecp-29)	28,440	28,736	29,416	-1158	0.90	-722	0.97						
Thru May (ecp-30)	31,301	29,903	30,889	-1398	0.96	-986	0.97					1	
TEC=		92.401											
Contingency Balance (after ECP-34)		12.767											
BCWR =		48.272											
Pending ECP's													
Job closure 1412 Winding Faacilities	Julv	0.252											
	July	0.261								;			
	oury	0.201		1						<u> </u>			
Job closure 1409 Coil Test Stand	July	0 4 1 5				1							
Job closure 1409 Coil Test Stand	July	<u>0.415</u> 0.928											











Page 1 of 1

		FY03	FY04				FY05			FY05	PROGRAM	FY06	FY07	FY08	FY09	TOTAL TEC
BA				FY03/04 carryover	Initial Fin Plan	OOE incremen	Jan Fin Plan	May Fin Plan	July Fin Plan	Budget	TO DATE					
								- ,								
	ORNL	\$1,320,000	\$2,809,000	\$135,304	\$1,500,000		\$300,000	\$300,000	\$200,000	\$2,435,304	\$6,429,000	\$1,000,000	\$1,000,000	\$650,000	\$250,000	\$9,329,000
	PPPL	\$6,577,000	\$13,037,000	\$3,426,421	\$14,300,000	\$1,700,000	-\$300,000	-\$300,000	-\$200,000	\$18,626,421	\$34,814,000	\$14,900,000	\$14,900,000	\$15,250,000	\$3,133,000	\$82,997,000
							tract between D Managed by D									
	DCMA		\$75,000	\$75,000	<u>\$0</u>	Chicago	. Managed by D	OL-1 30.		<u>\$75,000</u>	\$75,000					\$75,000
	TOTAL	¢7 907 000	¢45 004 000	¢0.000.705	¢45 000 000					¢04 400 705	\$41,318,000	¢15 000 000	¢15 000 000	¢15 000 000	¢2 202 000	¢02 404 000
	TOTAL	\$7,697,000	\$15,921,000	\$3,636,725	\$15,800,000					\$21,130,725	<b>ֆ41,310,000</b>	\$15,900,000	\$15,900,000	\$15,900,000	\$3,383,000	\$92,401,000
Co	st	FY03	FY04							FY05 thru June	•					
								1								
	ORNL	\$1,146,273	\$2,847,423							\$1,583,544	\$5,577,240					
	PPPL	\$4,795,653	\$11,028,219							\$11,016,859						
	d-site power sys dsi	n/fab	¢120 707	D-Site pwr system			ransferred to no this being an u			-\$438,707						
	a-sile power sys asi	n/ldD	\$438,707	PPPL cost account		-	· · ·			-9430,707						
	dcma credit		-\$75,000		covered as indir											
	sub total PPPL	\$4 795 653	\$11,391,926							\$10 578 152	\$26,765,731					
		¢ 1,1 00,000	¢,001,020							¢10,010,101	¢20,100,101					
	DCMA		\$0							\$15,000	\$15,000					
	TOTAL	\$5,941,926	\$14,239,349							\$12,176,696	\$32,357,971					
						<u>Reconci</u>	liation to									
								Budget (BAC)								
						BA	Cum BA		delta							
								\$41,255,000			<b>`</b>					
							\$41 318 000	\$75,000	DCMA Manage	?. Correct in ne						
							φ11,010,000	\$11,000,000	φ12,000							
							Cum Cost (official	ACWP Cum								
							accounting	to date								
						COST		Reported								
-							\$32,342,971	\$32,342,971			mont for EIO 9					
									rounding error		ment for EIO &	ivi i ivi contract				
-								\$32,719,000								