

**Princeton University Plasma Physics Laboratory
PPPL COST PERFORMANCE REPORT WORKBREAKDOWN STRUCTURE
NCSX
**** Cumulative to date FY03 & FY04 ****
SEPTEMBER FY04**

	CUMULATIVE TO DATE (from 4/1/03) (k)							ECP 16 Budget Baseline (k)
	Budgeted Cost			VARIANCES				
	BCWS	BCWP	ACWP	Sch Var	SPI	Cst Var	CPI	
1 - Stellarator Core Systems	15,282	14,437	14,486	-845	.94	-50	1.00	15,282
12 Vacuum Vessel Systems	2,877	2,831	2,821	-46	.98	9	1.00	2,877
1201 - Vacuum Vessel Dsn	424	425	424	0	1.00	0	1.00	424
1202- Vacuum Vessel R&D	1,774	1,771	1,771	-3	1.00	0	1.00	1,774
1203- Vacuum Vessel Final Dsn	645	601	626	-44	.93	-25	.96	645
1250- WBS 12 Procure/Fab/Title III	34	34		0	1.01	34		34
13 Conventional Coils	418	402	428	-16	.96	-27	.94	418
1301- Conventional Coils Prel Design	367	402	428	34	1.09	-27	.94	367
1303- TF/PF Coil Final design	51			-51				51
1304 - WBS 13 Procure/Fab/Title III								
14 Modular Coils	10,249	9,519	9,747	-730	.93	-228	.98	10,249
1401 - Mod. Coil Design (casting&winc	303	303	304		1.00	-1	1.00	303
1402 - Mod.Coil Analyses	239	239	239	0	1.00	0	1.00	239
1403- Mod. Coil Final Design	1,987	1,855	1,855	-132	.93	0	1.00	1,987
1404- Mod Coil Winding Form R&D	2,282	2,107	2,107	-174	.92	0	1.00	2,282
1405- Mod. Coil R&D prep	168	168	168		1.00	0	1.00	168
1406- Mod. Coil Winding R&D	1,914	1,878	2,123	-36	.98	-246	.88	1,914
1407- MC Winding Facilities	2,708	2,546	2,546	-162	.94	0	1.00	2,708
1408-Mod Coil Winding Supplies	162	32	56	-130	.20	-23	.58	162
1409- Mod. Coil Test Stand	466	369	343	-96	.79	26	1.08	466
1410- Mod Coil Prototype Winding			6			-6		
1411- Mod Coil Winding Form Fab	22	22		0	1.00	22		22
15 1501 - Structures Design	61	54	20	-7	.89	34	2.67	61
16 1601 - Coil Services Design								
17 1701 - Cryostat & Base Support St	173	150	110	-23	.87	40	1.37	173
18 Field Period Assembly	521	522	399	0	1.00	122	1.31	521
1801 - Field Period Assembly Design	61	61	61	0	1.00	0	1.00	61
1802- FP Assy Oversight&Support	219	219	149	0	1.00	70	1.47	219
1803- FP Assy Tooling /Constructability			8			-8		
1804- FP Assy Measurement Sys	241	241	181	0	1.00	60	1.33	241
19 1901 - Stellarator Core Managemel	983	961	961	-23	.98	0	1.00	983
2 - Plasma Heating, Fueling & Vac Sy	369	369	347	0	1.00	22	1.06	369
2001 - VPS,Gas & Cond sys Design/O	60	60	63	0	1.00	-3	.96	60
2501 - Neutral Beam Refurbishment	309	309	284	0	1.00	25	1.09	309
3 - Diagnostics	233	234	230	0	1.00	3	1.01	233
39 3901 - Diagnostics systems Integra	233	234	230	0	1.00	3	1.01	233
4 - Electrical Power Systems	353	304	242	-49	.86	62	1.26	353
41 4101- AC Power	179	155	81	-24	.9	75	1.9	179
43 4301- DC Systems								
44 4401- Control & Protection	6	1	22	-5	.19	-21	.05	6
45 4501- Power Sys Dsn & Integr	167	147	138	-21	.88	8	1.06	167
46 4601- FCPC Bldg Mods	1	1	1	0	1.08		1.00	1
5 - Central I&C Systems	24	24	31	0	1.00	-7	.78	24
58 5801 - Central I&C Integration & Ov	24	24	31		1.00	-7	.78	24
6 - Facility Systems	41	42	24	0	1.00	17	1.72	41
61 6163- Facility Systems FY04 suppc	32	32	15	0	1.00	17	2.16	32
65 6501 - Facility Sys Integration FY03	9	9	9	0	1.02	0	1.00	9
7 - Test Cell Preparation and Machin	498	403	361	-94	.81	42	1.12	498
71 7101 - Shield Wall Modifications De	32	32	32		1.00	0	1.00	32
72 7201- Control Room Walls/Floors								
73 7301- Platform Design&Fab	42			-42				42
74 7401- TC Prep & Mach Assy Plann	423	371	329	-52	.88	42	1.13	423
8 - Project Oversight and Support	3,839	3,839	4,022	0	1.00	-182	.95	3,839
81 Project Management and Control	1,623	1,623	1,779	0	1.00	-156	.91	1,623
8101 - Project Management and Contrc	1,118	1,118	1,263	0	1.00	-146	.88	1,118
8102 - NCSX MIE Management ORNL	179	179	151	0	1.00	27	1.18	179
8998 - Allocations	327	327	365	0	1.00	-38	.90	327
82 Project Engineering	1,804	1,804	1,773	0	1.00	31	1.02	1,804
8202 - Engineering Mgmt & Sys Engr S	990	990	991	0	1.00	0	1.00	990
8203 - Design Integration	561	561	561	0	1.00	0	1.00	561
8204 - Systems Analysis	253	253	221	0	1.00	31	1.14	253
84 Project Physics	412	412	470	0	1.00	-57	.88	412
8401 - Project Physcis	310	310	323	0	1.00	-13	.96	310
8402 - Project Physics MIE ORNL	102	102	146	0	1.00	-44	.70	102
Subtotal	20,640	19,652	19,744	-988	.95	-92	1.00	20,640
TOTAL PPPL/ORNL FUNDING								23,818