

NCSX FY05 ECP-21 reconciliation					
		ECP 18	ECP 21	change	description
	111 - Limiters	0	0	-	
12 - Vacuum Vessel Systems				-	
	121 - Vacuum Vessel Assembly	8,061	8,061	-	
	122 - Vacuum Vessel Thermal Insulation	176	176	-	
	123 - Vacuum Vessel Heating and Cooling Distrib	373	373	-	
	124 - Vacuum Vessel Supports	98	98	-	
	125 - Vacuum Vessel Local I&C	29	29	-	
	subtotal	8,737	8,737	-	
13 - Conventional Coils				-	
	130 - Conventional Coil Design	738	738	-	
	131 - TF Coils	1,595	1,595	-	
	132 - PF Coils	1,870	1,870	-	
	133 - External Trim Coils	146	146	-	
	134 - Conventional Coil Local	93	93	-	
	subtotal	4,441	4,441	-	
14 - Modular Coils				-	
	141 - Modular Coil Winding Form	13,181	13365.68	185	Add'l cost of pre-production casting. (Job 1404)
	142 - Modular Coil Windings and Assembly			229	Closeout of winding R&D and mat't testing program (job 1406)
		9,614	9843		
	143 - Modular Coil Local I&C	120	120	-	
	144 - Modular Coil Winding Facility & Fixtures	3,285	3,285	-	
	subtotal	26,200	26,614	414	
15 - Structures				-	
	151 - Coil Support Structure	1,381	1,381	-	
16 - Coil Services				-	
	161 - LN2 Distribution	338	338	-	
	162 - Electrical Leads	619	619	-	
	163 - Coil Protection System	79	79	-	
	subtotal	1,036	1,036	-	
17 - Cryostat and Base Support Structure				-	
	171 -Cryostat	878	878	-	
	172 - Base Support Structure	443	443	-	
	subtotal	1,321	1,321	-	
18 - Field Period Assembly				-	
	181 - Field Period Assembly Planning/Oversight	1,014	1,014	-	
	182 - TFTR Test Cell Area preparations	0	0	-	
	183 - Receive Inspect and Test Coils	79	79	-	
	184 - Receive Inspect and Test VV	530	530	-	
	185 - Assemble Field Periods	1,819	1,819	-	
	186 - Tooling Design and Fabrication	1,200	1,200	-	
	187 - Measurement Systems	476	476	-	
	subtotal	5,118	5,118	-	
19 - Stellarator Core Management and Integration				-	
	191 - Stellarator Core Management & Oversight	946	946	-	
	192 - Stellarator Core Integration & Analysis	1,475	1,475	-	
	subtotal	2,421	2,421	-	
	SUBTOTAL WBS 1	50,656	51,070	414	
21 - Fueling Systems		81	81	-	
22 - Torus Vacuum Pumping Systems		389	389	-	
25 - Neutral Beam Injection System		309	309	-	
	SUBTOTAL WBS 2	778	778	-	
31 - Magnetic Diagnostics		414	414	-	
36 - Edge and Divertor Diagnostics		43	43	-	
38 - Electron Beam (EB) Mapping		291	291	-	
39 - Diagnostics Integration		369	369	-	
	SUBTOTAL WBS 3	1,117	1,117	-	
41 - AC Power				-	
	411 - Auxliary AC Power Systems	440	440	-	
	412 - Experimental AC Power Systems	45	45	-	
43 - DC Systems				-	
	431 - C-Site DC Systems	446	446	-	
	432 - D-to-C Site DC Systems			-	
	433 - D-Site DC Systems			-	
44 - Control and protection Systems				-	
	441 - Electrical Interlocks	344	344	-	
	442 - Kirk Key Interlocks	78	78	-	
	443 - Real Time Control Systems	13	13	-	
	444 - Instrument Systems	294	294	-	
	445 - Coil protection Systems	486	486	-	
45 - Power System Design and Integration				-	
	451 - System Design and Interfaces	518	518	-	
	452 - Electrical Systems Support	244	244	-	
	453 - System Testing (PTP's)	305	305	-	

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				-	
46 - FCPC Building Modifications		1	1	-	
	SUBTOTAL WBS 4	3,214	3,214	-	
				-	
51 - TCP/IP Infrastructure Systems		289	289	-	
52 - Central Instrumentation & Control		569	569	-	
53 - Data Acquisition & Facility Computing		328	328	-	
54 - Facility Timing & Synchronization		207	207	-	
55 - Real Time Plasma & Power Supply Control Sys		151	151	-	
56 - Central Safety Interlock Systems		358	358	-	
58 - Central I&C management and Integration		13	13	-	
	SUBTOTAL WBS 5	1,915	1,915	-	
61 - Water Systems				-	
	611 - C-Site Cooling System	151	151	-	
	612 - NB Water Cooling Systems			-	
	613 - Vacuum Pumping System	89	89	-	
	614 - Bakeout Water System			-	
62 - Cryogenic Systems				-	
	621 - LN2-LHe Supply System	221	221	-	
	622 - LN2 Coil Cooling Supply			-	
	623 - GN2 Cryostat Cooling System	219	219	-	
				-	
63 - Utility Systems		104	104	-	
65 - Facility Systems Integration				-	
	612 - NB Water Cooling Systems	9	9	-	
	650 - Facility Systems Integration	32	32	-	
	SUBTOTAL WBS 6	825	825	-	
71 - Shield Wall Seismic Modifications		32	32	-	
72 - Control Room Refurbishment		50	50	-	
73 - Platform Design & Fabrication		161	161	-	
74 - Machine Assembly Planning and Oversight				-	
	740 - Machine Assembly Planning and Oversight	153	153	-	
	741 - Planning Prior to Machine Assembly	282	282	-	
	742 - Construction Management	1,068	1,068	-	
75 - Test Cell and Basement Assembly Operations				-	
	750 - Test Cell & Basement Assembly Operations	2,239	2,239	-	
76 - Tooling Design & Fabrication		223	223	-	
	SUBTOTAL WBS 7	4,208	4,208	-	
81 - Project Management and Control		3,450	3,450	-	
82 - Project Engineering		4,368	4,368	-	
84 - Project Physics		412	470	58	Close out cost . MIE Tasks concluded in FY04
85 - Integrated Systems Testing		1,221	1,221	-	
	SUBTOTAL WBS 8	9,451	9,509	58	
PPPL Allocations		1,129	1,129	-	
Contingency		13,053	12,581	(472)	
		86,346	86,346	(0)	