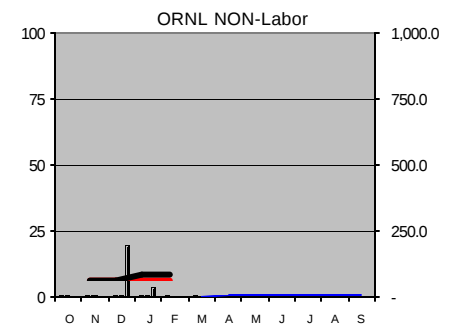
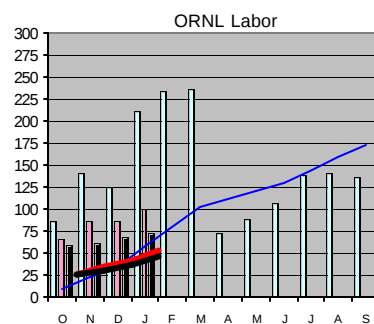
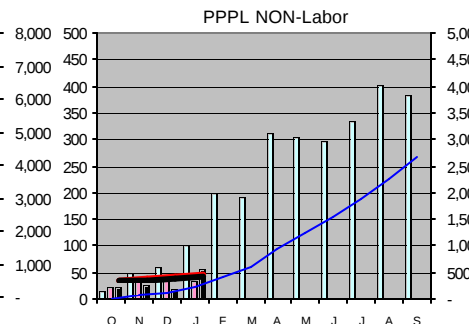
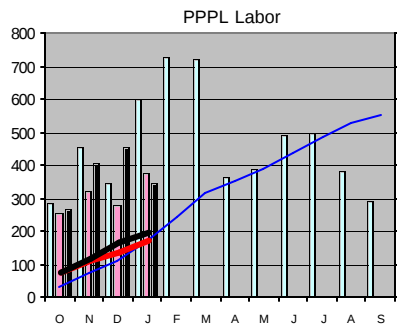
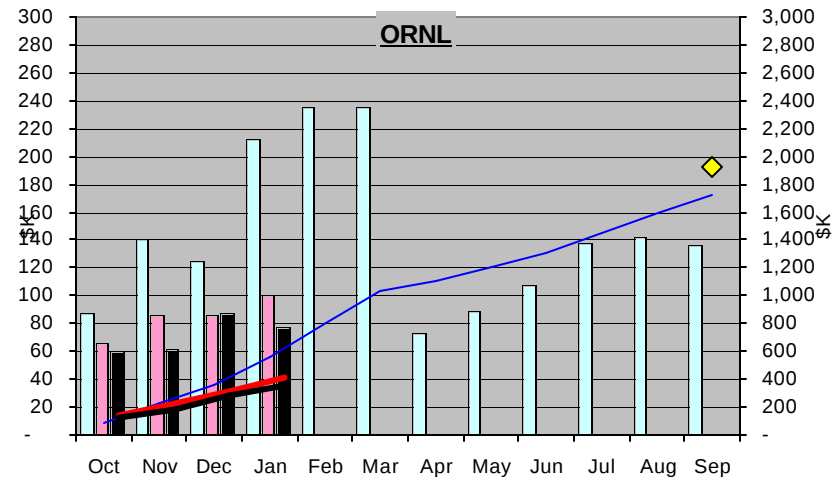
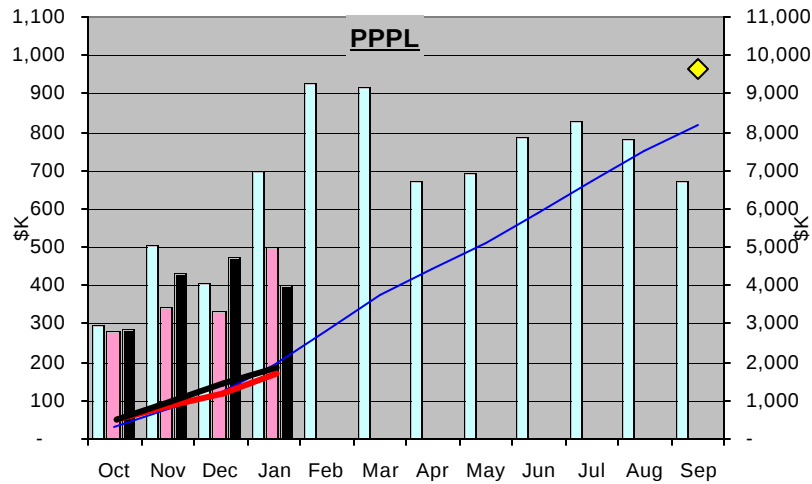
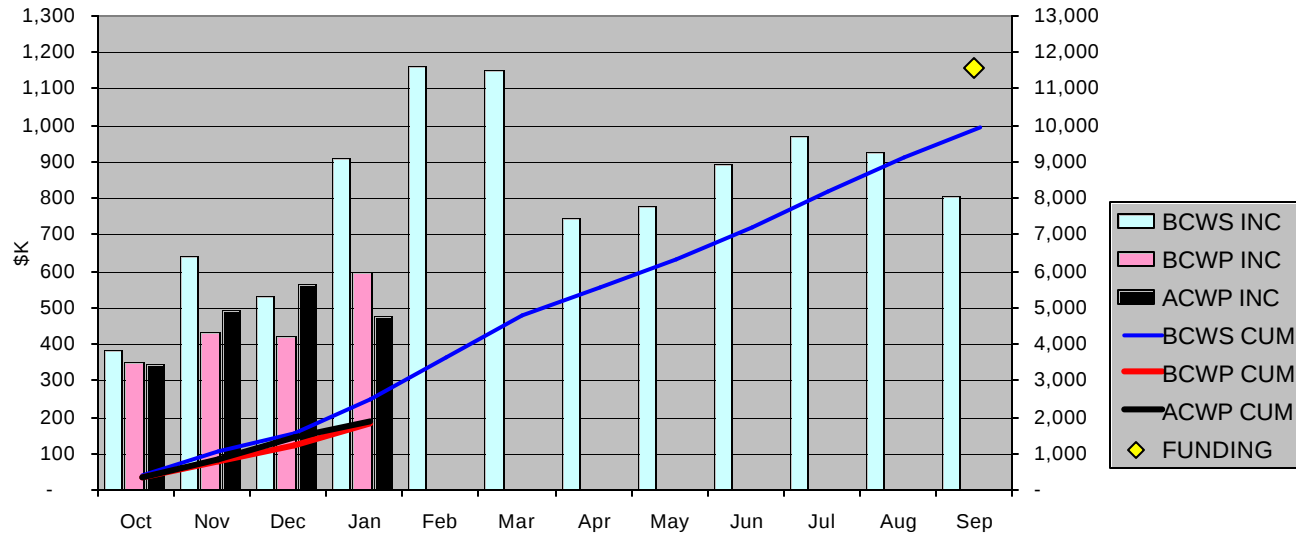


NCSX PPPL/ORNL MIE FY 2003 Cost Performance



PrincetonUniversity Plasma Physics Laboratory
PPPL COST PERFORMANCE REPORT WORKBREAKDOWN STRUCTURE
NCSX
**** Fiscal Year 03 only ****
JANUARY FY03

	CURRENT PERIOD			CUMULATIVE TO DATE							FY03		Vari
	Budgeted Cost		ACWP	Budgeted Cost		ACWP	VARIANCES				Budget Baseline	Forecast	
	BCWS	BCWP		BCWS	BCWP		Sch Var	SPI	Cst Var	CPI			
PPPL and ORNL	\$K			\$K							\$K	\$K	
Advanced Conceptual Design													
1 - Stellarator Core Systems	609	320	314	1,532	1,095	1,095	-437	.71	0	1.00	7,061	7,061	
11 In-Vessel Components	0	0		3	0		-2	.17	0		18	18	
1101 - Limiter Advanced Concep Design	0	0		3	0		-2	.17	0		18	18	
1102 - Limiter Prelim & Final Design													
12 Vacuum Vessel Systems	119	32	25	232	107	90	-124	.46	17	1.19	1,106	1,106	
1201 - Vacuum Vessel Dsn	105	20	25	180	64	78	-116	.36	-14	.83	378	378	
1202 - Vacuum Vessel R&D	14	12		51	43	12	-8	.83	31	3.54	625	625	
1203 - Vacuum Vessel Final Dsn											102	102	
13 Conventional Coils	15		4	21	7	15	-13	.35	-7	.50	432	432	
1301 - Conventional Coils Design	15		4	21	7	15	-13	.35	-7	.50	432	432	
14 Modular Coils	387	262	254	1,044	889	851	-155	.85	38	1.04	4,353	4,353	
1401 - Mod. Coil Design (casting&winding)	63	25	24	171	72	97	-99	.42	-25	.75	364	364	
1402 - Mod.Coil Analyses	49	13	20	97	101	113	3	1.03	-13	.89	201	201	
1403 - Mod. Coil Final Design											358	358	
1404 - Mod. Coil Winding Form R&D	22	13	23	66	44	97	-21	.67	-53	.46	1,751	1,751	
1405 - Mod. Coil Winding R&D Prep	97	114	111	336	394	283	58	1.17	111	1.39	530	530	
1406 - Mod. Coil Winding R&D	92	24	37	211	140	178	-71	.66	-38	.79	618	618	
1407 - Mod. Coil Winding Facility	64	73	40	163	138	83	-25	.85	55	1.66	531	531	
1408 -Mod. Coil Prototype Coil Winding													
1501 - Structures Design	7	1	4	19	13	18	-6	.70	-5	.74	283	283	
1601 - Coil Services Design	12			12			-12				89	89	
1701 - Cryostat & Base Support Struct Dsn	14			26		1	-26		-1		141	141	
1801 - Field Period Assembly Design	5			12		1	-12		-1		93	93	
1901 - Stellarator Core Management&Integr	50	24	27	164	78	119	-86	.47	-41	.65	547	547	
2 - Plasma Heating, Fueling & Vac Systems	51	7	14	82	9	30	-73	.11	-22	.29	288	288	
2001 - VPS,Gas & Cond sys Design/Oversight	6	0	1	6	0	1	-5	.07	0	.58	22	22	
2501 - Neutral Beam Refurbishment	45	7	13	76	8	30	-68	.11	-21	.28	266	266	
3 - Diagnostics	23	25	17	101	54	80	-47	.53	-26	.67	225	225	
3901 - Diagnostics systems Integration	23	25	17	101	54	80	-47	.53	-26	.67	225	225	
4 - Electrical Power Systems	30	1	2	39	1	2	-37	.04	0	.86	257	257	
4301 - Electrical Dsn DC SystemsWBS 432&4	22	1	2	22	1	2	-20	.07	0	.86	125	125	
4401 - Electrical Dsn Control & Protection											23	23	
4501 - Electr System Design & Integration	8			17			-17				66	66	
4601 - FCPC Bldg Modifications											42	42	
5 - Central I&C Systems	2			6			-6				24	24	
5801 - Central I&C Integration & Oversight	2			6			-6				24	24	
6 - Facility Systems	10	5		21	13	8	-8	.62	6	1.77	66	66	
6501 - Facility Systems Integration	10	5		21	13	8	-8	.62	6	1.77	66	66	
7 - Test Cell Preparation and Machine Assy	6	6	3	15	15	9	0	1.00	5	1.56	109	109	
7101 - Shield Wall Modifications Design											51	51	
7401 - TC Prep & Mach Assy Plan&Oversight	6	6	3	15	15	9	0	1.00	5	1.56	58	58	
8 - Project Oversight and Support	180	235	127	675	612	656	-63	.91	-44	.93	1,882	1,882	
81 Project Management and Control	71	71	51	257	257	262	0	1.00	-5	.98	800	800	
8101 - Project Management and Control	51	52	34	185	185	179	0	1.00	5	1.03	579	579	
8102 - NCSX MIE Management ORNL	10	10	9	37	37	48	0	1.00	-11	.78	109	109	
8998 - Allocations	10	10	7	35	35	35	0	1.00	1	1.02	111	111	
82 Project Engineering	77	132	56	301	238	261	-63	.79	-23	.91	732	732	
8202 - Engineering Mgmt & Sys Engr Support	50	91	40	193	165	188	-28	.85	-23	.88	445	445	
8203 - Design Integration	15	38	14	54	54	56	0	1.00	-2	.96	168	168	
8204 - Systems Analysis	12	3	3	55	19	17	-35	.36	2	1.12	119	119	
84 Project Physics	32	32	21	116	116	133	0	1.00	-17	.87	350	350	
8401 - Project Physcis	22	22	21	80	80	132	0	1.00	-52	.61	251	251	
8402 - Project Physics MIE ORNL	9	9		36	36	1	0	1.00	35	34.24	99	99	
Subtotal	910	599	477	2,470	1,799	1,881	-671	.73	-82	.96	9,912	9,912	
Contingency											1,635	1,635	
Management Reserve											11,546	11,546	
TOTAL PPPL/ORNL													
Funding													
Financial Plan BA											10,858	10,858	
FY02 Carryover											443	443	
Rate Adjustment setaside											262	262	
ERWM Allocation Increment]													
TOTAL PPPL/ORNL FUNDING											11,563	11,563	

PrincetonUniversity Plasma Physics Laboratory
PPPL COST PERFORMANCE REPORT WORKBREAKDOWN STRUCTURE

NCSX

**** Fiscal Year 03 only ****

JANUARY FY03

	CURRENT PERIOD			CUMULATIVE TO DATE								FY03 Budget Baseline	Forecast	Vari
	Budgeted Cost		ACWP	Budgeted Cost		ACWP	VARIANCES							
	BCWS	BCWP		BCWS	BCWP		Sch Var	SPI	Cst Var	CPI				
PPPL														
Advanced Conceptual Design														
1 - Stellarator Core Systems	415	238	246	1,039	830	859	-210	.80	-29	.97	5,545	5,545		
11 In-Vessel Components														
1101 - Limiter Advanced Concep Design														
1102 - Limiter Prelim & Final Design														
12 Vacuum Vessel Systems	20	4	5	34	12	39	-22	.36	-26	.31	635	635		
1201 - Vacuum Vessel Dsn	20	1	5	22	2	26	-19	.11	-24	.09	55	55		
1202 - Vacuum Vessel R&D		3		12	10	12	-3	.80	-2	.80	565	565		
1203 - Vacuum Vessel Final Dsn											15	15		
13 Conventional Coils	15		4	21	7	15	-13	.35	-7	.50	419	419		
1301 - Conventional Coils Design	15		4	21	7	15	-13	.35	-7	.50	419	419		
14 Modular Coils	316	233	223	845	797	736	-48	.94	61	1.08	3,664	3,664		
1401 - Mod. Coil Design (casting&winding)	3			3		11	-3		-11		7	7		
1402 - Mod.Coil Analyses	39	13	20	87	101	113	13	1.15	-13	.89	175	175		
1403 - Mod. Coil Final Design											110	110		
1404 - Mod. Coil Winding Form R&D	21	9	16	45	24	68	-21	.54	-44	.35	1,694	1,694		
1405 - Mod. Coil Winding R&D Prep	97	114	111	336	394	283	58	1.17	111	1.39	530	530		
1406 - Mod. Coil Winding R&D	92	24	37	211	140	178	-71	.66	-38	.79	618	618		
1407 - Mod. Coil Winding Facility	64	73	40	163	138	83	-25	.85	55	1.66	531	531		
1408 -Mod. Coil Prototype Coil Winding														
15 1501 - Structures Design	7	1	4	19	13	18	-6	.70	-5	.74	270	270		
16 1601 - Coil Services Design	12			12			-12				89	89		
17 1701 - Cryostat & Base Support Struct Dsn	14			26		1	-26		-1		141	141		
18 1801 - Field Period Assembly Design	5			12		1	-12		-1		93	93		
19 1901 - Stellarator Core Management&Integr	27		11	70		48	-70		-48		235	235		
2 - Plasma Heating, Fueling & Vac Systems	51	7	14	82	9	30	-73	.11	-22	.29	288	288		
2001 - VPS,Gas & Cond sys Design/Oversight	6	0	1	6	0	1	-5	.07	0	.58	22	22		
2501 - Neutral Beam Refurbishment	45	7	13	76	8	30	-68	.11	-21	.28	266	266		
3 - Diagnostics	23	25	17	101	54	80	-47	.53	-26	.67	225	225		
39 3901 - Diagnostics systems Integration	23	25	17	101	54	80	-47	.53	-26	.67	225	225		
4 - Electrical Power Systems	30	1	2	39	1	2	-37	.04	0	.86	257	257		
43 4301 - Electrical Dsn DC SystemsWBS 432&43	22	1	2	22	1	2	-20	.07	0	.86	125	125		
44 4401 - Electrical Dsn Control & Protection											23	23		
45 4501 - Electr System Design & Integration	8			17			-17				66	66		
46 4601 - FCPC Bldg Modifications											42	42		
5 - Central I&C Systems	2			6			-6				24	24		
58 5801 - Central I&C Integration & Oversight	2			6			-6				24	24		
6 - Facility Systems	10	5		21	13	8	-8	.62	6	1.77	66	66		
65 6501 - Facility Systems Integration	10	5		21	13	8	-8	.62	6	1.77	66	66		
7 - Test Cell Preparation and Machine Assy	6	6	3	15	15	9	0	1.00	5	1.56	109	109		
71 7101 - Shield Wall Modifications Design											51	51		
74 7401 - TC Prep & Mach Assy Plan&Oversight	6	6	3	15	15	9	0	1.00	5	1.56	58	58		
8 - Project Oversight and Support	161	215	118	601	538	607	-63	.90	-69	.89	1,674	1,674		
81 Project Management and Control	61	62	42	220	220	214	0	1.00	6	1.03	691	691		
8101 - Project Management and Control	51	52	34	185	185	179	0	1.00	5	1.03	579	579		
8102 - NCSX MIE Management ORNL														
8998 - Allocations	10	10	7	35	35	35	0	1.00	1	1.02	111	111		
82 Project Engineering	77	132	56	301	238	261	-63	.79	-23	.91	732	732		
8202 - Engineering Mgmt & Sys Engr Support	50	91	40	193	165	188	-28	.85	-23	.88	445	445		
8203 - Design Integration	15	38	14	54	54	56	0	1.00	-2	.96	168	168		
8204 - Systems Analysis	12	3	3	55	19	17	-35	.36	2	1.12	119	119		
84 Project Physics	22	22	21	80	80	132	0	1.00	-52	.61	251	251		
8401 - Project Physcis	22	22	21	80	80	132	0	1.00	-52	.61	251	251		
8402 - Project Physics MIE ORNL														
Subtotal	697	498	400	1,904	1,461	1,595	-444	.77	-135	.92	8,187	8,187		
Contingency														
Management Reserve											1,438	1,438		
TOTAL PPPL											9,625	9,625		
Funding														
Financial Plan BA											9,067	9,067		
January Fin Plan											-130	-130		
FY02 Carryover											+ 443	443		
Rate Adjustment setaside											+ 262	262		
TOTAL PPPL FUNDING											9,642	9,642		

PrincetonUniversity Plasma Physics Laboratory
PPPL COST PERFORMANCE REPORT WORKBREAKDOWN STRUCTURE

NCSX

**** Fiscal Year 03 only ****

JANUARY FY03

	CURRENT PERIOD			CUMULATIVE TO DATE								FY03 Budget Baseline	Forecast	Vari
	Budgeted Cost			Budgeted Cost			VARIANCES							
	BCWS	BCWP	ACWP	BCWS	BCWP	ACWP	Sch Var	SPI	Cst Var	CPI				
ORNL														
Advanced Conceptual Design														
1 - Stellarator Core Systems	194	82	68	492	266	237	-227	.54	29	1.12	1,516	1,516		
11 In-Vessel Components	0	0		3	0		-2	.17	0		18	18		
1101 - Limiter Advanced Concep Design	0	0		3	0		-2	.17	0		18	18		
1102 - Limiter Prelim & Final Design														
12 Vacuum Vessel Systems	99	28	20	198	95	51	-103	.48	44	1.85	471	471		
1201 - Vacuum Vessel Dsn	85	19	20	159	62	51	-97	.39	10	1.20	323	323		
1202 - Vacuum Vessel R&D	14	8		39	33		-6	.85	33		61	61		
1203 - Vacuum Vessel Final Dsn											87	87		
13 Conventional Coils											13	13		
1301 - Conventional Coils Design											13	13		
14 Modular Coils	71	30	31	199	92	115	-106	.47	-23	.80	689	689		
1401 - Mod. Coil Design (casting&winding)	60	25	24	168	72	86	-95	.43	-14	.84	357	357		
1402 - Mod.Coil Analyses	10			10			-10				26	26		
1403 - Mod. Coil Final Design											248	248		
1404 - Mod. Coil Winding Form R&D	1	4	7	21	20	29	-1	.96	-9	.69	58	58		
1405 - Mod. Coil Winding R&D Prep														
1406 - Mod. Coil Winding R&D														
1407 - Mod. Coil Winding Facility														
1408 -Mod. Coil Prototype Coil Winding														
15 1501 - Structures Design											13	13		
16 1601 - Coil Services Design														
17 1701 - Cryostat & Base Support Struct Dsn														
18 1801 - Field Period Assembly Design														
19 1901 - Stellarator Core Management&Integr	24	24	17	93	78	70	-16	.83	7	1.11	312	312		
2 - Plasma Heating, Fueling & Vac Systems														
2001 - VPS,Gas & Cond sys Design/Oversigh														
2501 - Neutral Beam Refurbishment														
3 - Diagnostics														
39 3901 - Diagnostics systems Integration														
4 - Electrical Power Systems														
43 4301 - Electrical Dsn DC SystemsWBS 432&43														
44 4401 - Electrical Dsn Control & Protection														
45 4501 - Electr System Design & Integration														
46 4601 - FCPC Bldg Modifications														
5 - Central I&C Systems														
58 5801 - Central I&C Integration & Oversight														
6 - Facility Systems														
65 6501 - Facility Systems Integration														
7 - Test Cell Preparation and Machine Assy														
71 7101 - Shield Wall Modifications Design														
74 7401 - TC Prep & Mach Assy Plan&Oversight														
8 - Project Oversight and Support	19	19	9	74	73	49	0	1.00	24	1.50	208	208		
81 Project Management and Control	10	10	9	37	37	48	0	1.00	-11	.78	109	109		
8101 - Project Management and Control														
8102 - NCSX MIE Management ORNL	10	10	9	37	37	48	0	1.00	-11	.78	109	109		
82 Project Engineering														
8202 - Engineering Mgmt & Sys Engr Support														
8203 - Design Integration														
8204 - Systems Analysis														
84 Project Physics	9	9		36	36	1	0	1.00	35	34.24	99	99		
8401 - Project Physcis														
8402 - Project Physics MIE ORNL	9	9		36	36	1	0	1.00	35	34.24	99	99		
Subtotal	213	101	77	566	339	286	-227	.60	53	1.19	1,724	1,724		
Contingency														
Management Reserve											197	197		
TOTAL ORNL											1,921	1,921		
Funding														
Financial Plan BA											1,791	1,791		
January Fin Plan Request											130	130		
Rate Adjustment setaside											n/a	n/a		
											n/a	n/a		
TOTAL ORNL FUNDING											1,921	1,921		

Princeton University Plasma Physics Laboratory
PPPL COST PERFORMANCE REPORT WORKBREAKDOWN STRUCTURE
NCSX
**** Fiscal Year 03 only ****
JANUARY FY03

CURRENT PERIOD			CUMULATIVE TO DATE							FY03		
Budgeted Cost			Budgeted Cost			VARIANCES				Budget	Forecast	Vari
BCWS	BCWP	ACWP	BCWS	BCWP	ACWP	Sch Var	SPI	Cst Var	CPI			

Research Preparations

PPPL and ORNL

Research Preparations												
8 - Project Oversight and Support												
81 Project Management and Control	37	37	27	133	133	96	1.00	37	1.39	419	419	
8181 - Research Prep PPPL	14	14	20	52	52	51	1.00	1	1.01	162	162	
8182 - Research Prep ORNL	23	23	7	82	82	45	1.00	36	1.81	256	256	
8183 - Research Prep Support LLNL												
84 Project Physics												
8481 - Research Prep Physics	35	35	19	126	126	77	1.00	49	1.64	395	395	
Subtotal	72	72	46	259	259	173	1.00	86	1.50	813	813	
Management Reserve												
TOTAL PPPL/ORNL										813	813	
Funding												
Financial Plan BA										779	779	
January Fin Plan										-30	-30	
FY02 Carryover												
Rate Adjustment setaside										-8	-8	
ERWM Allocation Increment]										29	29	
TOTAL PPPL/ORNL FUNDING										770	770	

PPPL

Research Preparations												
8 - Project Oversight and Support												
81 Project Management and Control	14	14	20	52	52	51	1.00	1	1.01	162	162	
8181 - Research Prep PPPL	14	14	20	52	52	51	1.00	1	1.01	162	162	
8182 - Research Prep ORNL												
8183 - Research Prep Support LLNL												
84 Project Physics												
8481 - Research Prep Physics	35	35	19	126	126	77	1.00	49	1.64	395	395	
Subtotal	49	49	39	178	178	128	1.00	50	1.39	557	557	
Management Reserve												
TOTAL PPPL										557	557	
Funding												
Financial Plan BA										389	389	
January Fin Plan										+ 100	100	
FY02 Carryover												
Rate Adjustment setaside										-8	-8	
ERWM Allocation Increment]										+ 29	29	
TOTAL PPPL FUNDING										510	510	

ORNL

Research Preparations												
8 - Project Oversight and Support												
81 Project Management and Control	23	23	7	82	82	45	1.00	36	1.81	256	256	
8181 - Research Prep PPPL												
8182 - Research Prep ORNL	23	23	7	82	82	45	1.00	36	1.81	256	256	
8183 - Research Prep Support LLNL												
84 Project Physics												
8481 - Research Prep Physics												
Subtotal	23	23	7	82	82	45	1.00	36	1.81	256	256	
Management Reserve												
TOTAL ORNL										256	256	
Funding												
Financial Plan BA										390	390	
January Fin Plan Request										-130	-130	
Rate Adjustment setaside										n/a	n/a	
ERWM Allocation Increment]										n/a	n/a	
TOTAL ORNL FUNDING										260	260	

NCSX February 1st Cost Performance Analysis

Vacuum Vessel Design and vendor R&D program

Job 1201 and 1202

	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>Sched Variance</u>	<u>SPI</u>	<u>Cost Variance</u>	<u>CPI</u>
Paul Goranson	232	107	90	-125	0.46	17	1.19

Definition of MC winding geometry and VV shell/FW geometry late; forecast March 3rd completion.

Design of Vac Vsl and interfaces late and forecast by mid May. Critical to June 23rd PDR.

VV prototype award now forecast for 3/24/03 which could delay receipt of MIT, cost and schedule plans. Assuming 8 weeks vendor lead time expected receipt would occur May 19th. THIS WOULD IMPACT THE PDR BY 1 WEEK.

Modular Coil Design, analyses and vendor R&D program

Jobs 1401, 1402 and 1404

	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>Sched Variance</u>	<u>SPI</u>	<u>Cost Variance</u>	<u>CPI</u>
Dave Williamson	334	217	307	-117	0.65	-90	0.71

EM & stress analysis and design tasks late but still supportive of June 23rd PDR.

MCC R&D Vendor award forecast 2/14/03. With 10 week lead time vendor delivery of cost/schedule mit plans by 4/25/03 still supportive of 6/23/03 PDR.

Cost 42% over estimate; driven by PPPL labor in support of MCC procurement efforts.

Modular coil in-house winding R&D activities

1406, and 1407

	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>Sched Variance</u>	<u>SPI</u>	<u>Cost Variance</u>	<u>CPI</u>
Jim Chrzanowski	374	278	261	-96	0.74	17	1.07

Determination of materials properties and allowables only 10% complete. Keystoning task late getting started. Winding of second test coil not yet started.

Selection of epoxy resin system and completion of keystoning test forecast for March.

Stellarator Core Structure, Coil Services, Cryostat, and Field Period Assy Design

Jobs 1501, 1601, 1701, and 1801

	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>Sched Variance</u>	<u>SPI</u>	<u>Cost Variance</u>	<u>CPI</u>
Feder, Williamson, Gettlefinger, Chrzanowski	69	13	18	-56	0.19	-5	0.72

Updating of conceptual design and advanced conceptual design tasks started late.

Stellarator Core Management & Integration

Job 1901

	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>Sched Variance</u>	<u>SPI</u>	<u>Cost Variance</u>	<u>CPI</u>
Brad Nelson	164	78	119	-86	0.48	-41	0.66

Update stellarator core concept dsn 2 1/2mo. behind. Assy dwgs and design criteria approx 2 mos. behind. Document time constant & reqmnts for insulating breaks 3 mos. behind. Time constant loop voltage transient field error analysis 1 month behind.

Neutral Beam Refurbishment

Job 2501

	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>Sched Variance</u>	<u>SPI</u>	<u>Cost Variance</u>	<u>CPI</u>
Tim Stevenson	76	8	30	-68	0.11	-22	0.27

Leak detector procurement on hold under continuing resolution (-33k) no impact; inhouse leak detector to be refurbished.

Late start ramping up on all hardware evaluations and testing. (-35k)

Diagnostics

Job 3901

	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>Sched Variance</u>	<u>SPI</u>	<u>Cost Variance</u>	<u>CPI</u>
Dave Johnson	101	54	80	-47	0.53	-26	0.68

General diagnostic integration, Magnetics integration, SXR Tomography, and Port Orientation issues 1-2 months behind plan.

PPPL researcher charges greater than estimated for work performed.

Electrical systems design and integration

Jobs 4301 and 4501

	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>Sched Variance</u>	<u>SPI</u>	<u>Cost Variance</u>	<u>CPI</u>
Raki Ramakrishnan	39	1	2	-38	0.03	-1	0.50

Only two mandays of work was performed during January. This covered a revisit of the DC transmission line requirements from D to C site. WBS4 needs the final coil configuration details i.e. number of coils and ratings. In addition to the main coils, input is essential regarding the number of trim coils, and their control requirements. Only based on this information WBS4 can commence productive work towards the PDR

Project Engineering

Jobs 8202, 8203, and 8204

	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>Sched Variance</u>	<u>SPI</u>	<u>Cost Variance</u>	<u>CPI</u>
Wayne Reiersen	301	238	261	-63	0.79	-23	0.91

Plans and procedures as well as development of technical data behind by 2 months. Assessment of sources of field errors 10% complete

Activity ID	Activity Description	Current Start	Current Finish	% Cmpl't	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04													
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	M	U	
Cost Center: 1850 - NCSX Advanced Concep Design																																	
Work Package: 1***-Stellarator core																																	
Job: 1101 - Limiter Adv Concep Design-GORANSON																																	
111-2-01	Update Concep Dsn for limiter	03MAR03*	30APR03	20	432.00	2,160.00	12																										
L4-035	Incorporate radiation shields in FW panels (if r	06JAN03A	31MAR03		0.00	0.00	4																										
L4-036	Calculate bakeout heat loads on VV and in-vessel	06JAN03A	31MAR03		0.00	0.00	4																										
L4-037	Update design of initial limiter configuration	01APR03*	07APR03		0.00	0.00	19																										
L4-038	Perform design studies for CFC liner with divert	01APR03*	28APR03		0.00	0.00	4																										
L4-039	Perform design studies for flowing Li divertor,	01APR03*	28APR03		0.00	0.00	4																										
111-2-1	Interface control documents for invessel compnts	03MAR03*	15MAY03		0.00	7,640.00	1																										
111-3-1	Update cost estimate for Limiter	14MAR03*	15MAY03		0.00	5,400.00	1																										
111-3-2	Update planning for FY-04	12AUG03*	09SEP03		0.00	2,700.00	2,363																										
Subtotal		06JAN03A	09SEP03		432.00	17,900.00	2,363																										

Run Date 11FEB03 13:59

 2/1/03 Status (current)
 1/1/03 Status
 WAF 10/1/02 Baseline
 Progress Bar
 Critical Activity

0301

NCSX

Sheet 1 of 42

FY03 Work Authorization Plan

STATUS 2/1/03

Activity ID	Activity Description	Current Start	Current Finish	% Cmpl	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04														
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	M	J		
Cost Center: 1850 - NCSX Advanced Concep Design																																		
Work Package: 1***-Stellarator core																																		
Job: 1102 - Limiter Prelim&Final Design-GORANSON																																		
111-1-1	CAD models and drawings of limiter dsn	03OCT03*	15JAN04		0.00	15,200.00	2,243																											
111-1-2	Thermal analysis of limiters	16JAN04	30JAN04		0.00	3,240.00	2,243																											
111-1-3	Stress analysis of limiters	02FEB04	24FEB04		0.00	3,240.00	2,243																											
111-1-4	Assembly plan for limiters	30JAN04*	15APR04		0.00	3,240.00	2,206																											
111-2-2	Interface control document for diagnostics	31MAY04*	27AUG04		0.00	3,240.00	2,110																											
111-2-3	Interface control document for Utilities	31MAY04*	27AUG04		0.00	8,040.00	2,110																											
111-4-1	Design-to specification	05MAR04*	21APR04		0.00	5,400.00	2,202																											
111-4-2	Draft Build-to (manufacturing) specification for	12AUG04*	09SEP04		0.00	2,700.00	2,101																											
111-4-3	Final Build-to (manufacturing) specification for	12AUG04*	09SEP04		0.00	2,700.00	2,101																											
111-5-1	Demonstrate installation feasibility	05MAR04*	19MAY04		0.00	5,400.00	2,182																											
111-6-1	CAD models and drawings of limiter final design,	03NOV03*	01MAR04		0.00	19,600.00	2,239																											
111-6-2	Final thermal analysis of limiters	01JUN04*	30SEP04		0.00	5,400.00	2,086																											
111-6-3	Final stress analysis of vessel lmiters	01JUN04*	30SEP04		0.00	9,210.00	2,086																											
114-1-1	Sensor specification and schematics of sensor pl	03NOV03*	01MAR04		0.00	4,120.00	2,239																											
114-1-2	Interface and cost data input for tasks 111-2, 1	03NOV03*	01MAR04		0.00	2,160.00	2,239																											
Subtotal		03OCT03	30SEP04		0.00	92,890.00	2,086																											

Run Date 11FEB03 13:59

 2/1/03 Status (current)
 1/1/03 Status
 WAF 10/1/02 Baseline
 Progress Bar
 Critical Activity

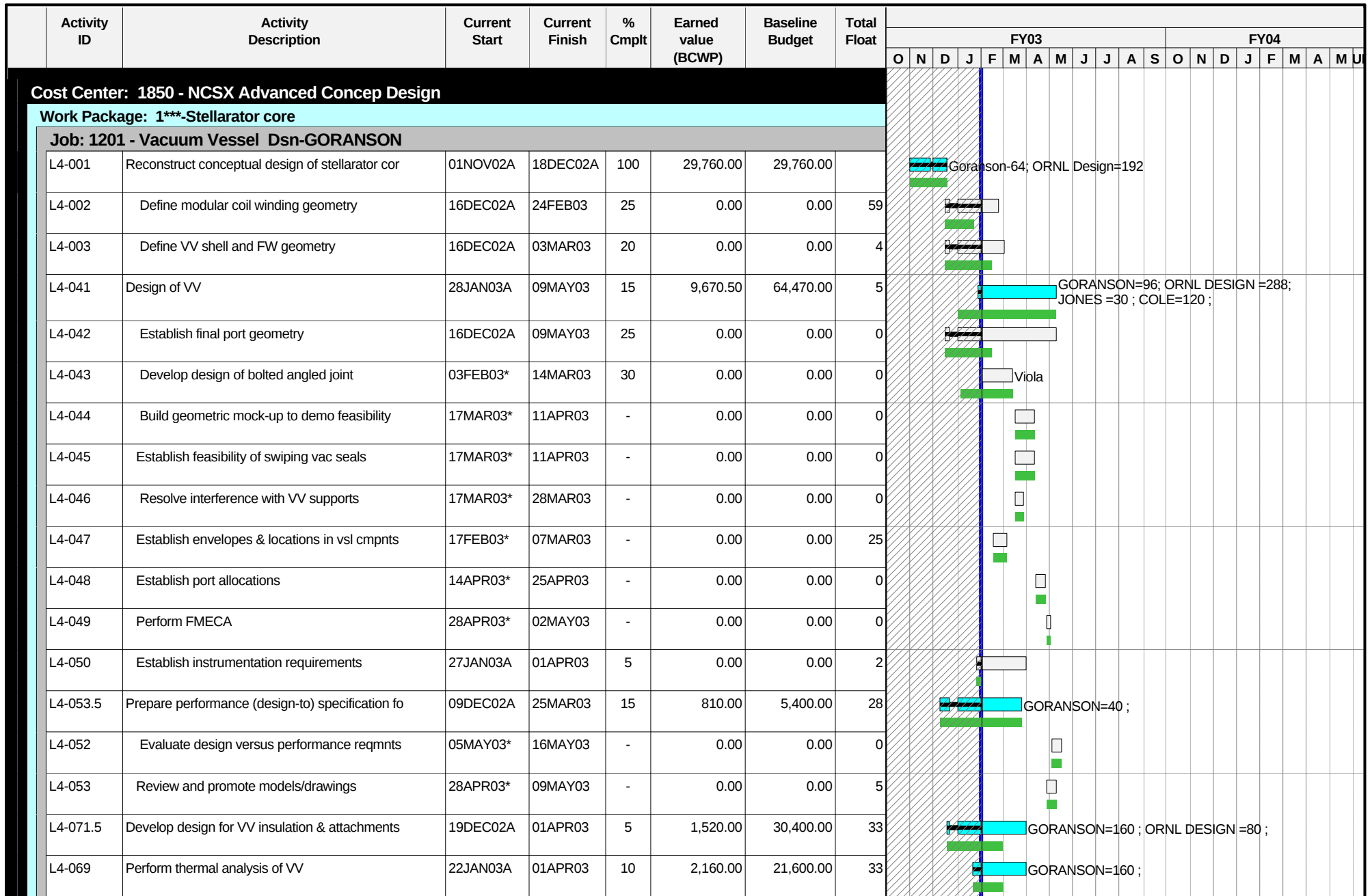
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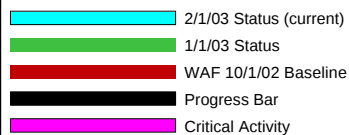
Sheet 2 of 42

FY03 Work Authorization Plan

STATUS 2/1/03



Run Date 11FEB03 13:59



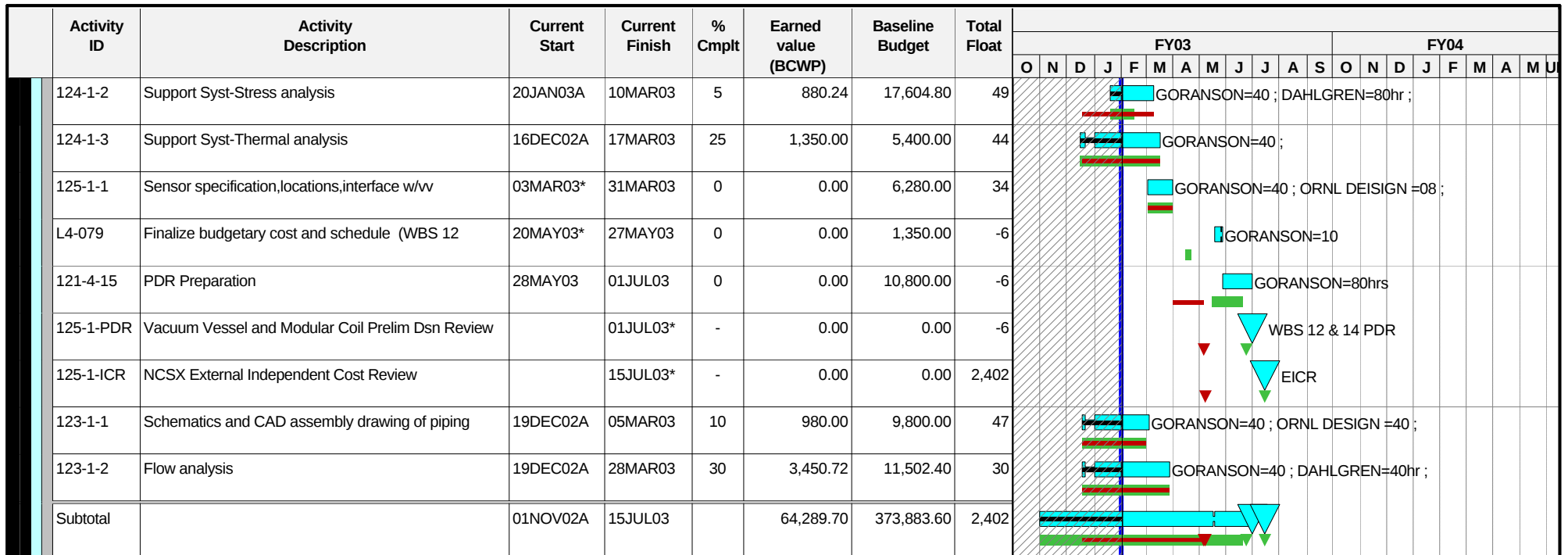
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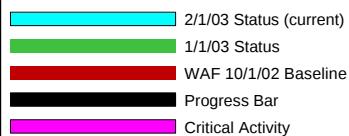
Sheet 3 of 42

FY03 Work Authorization Plan

STATUS 2/1/03



Run Date 11FEB03 13:59



0301 NCSX Sheet 5 of 42
FY03 Work Authorization Plan

STATUS 2/1/03

Activity ID	Activity Description	Current Start	Current Finish	% Cmpl	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04												
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	M	J
Cost Center: 1850 - NCSX Advanced Concep Design																																
Work Package: 1**-Stellarator core																																
Job: 1202 - Vacuum Vessel R&D-GORANSON																																
121-5-1	Procurement Oversight and Support	24OCT02A	24FEB03	LOE	30,372.82	38,204.80	2,501	GORANSON=160; HEITZENROEDE=80hr;ORNL Design=40hr																								
121-5-12	Develop and Issue RFP	18NOV02A	18NOV02A	100	0.00	0.00																										
121-5-14	Proposal Prep by subcontractors	19NOV02A	29JAN03A	100	0.00	0.00																										
121-5-16	Evaluate Proposals	03FEB03	17MAR03	-	0.00	0.00	-6																									
121-5-17	Update Documentation (SOW,spec,dwgs)	03MAR03	04MAR03	-	0.00	0.00	3																									
121-5-18	Finalize Contract	18MAR03	24MAR03	-	0.00	0.00	-6																									
121-5-19	DOE Approval	18MAR03	24MAR03	-	0.00	0.00	-6																									
121-5-2	Update CAD models, drawings and specifications	15NOV02A	03MAR03	95	12,540.00	13,200.00	9	ORNL DESIGN =120 ;																								
121-5-25	Award 2 VV R&D ContractS		24MAR03	-	0.00	0.00	-6	Award VV R&D Contract																								
L4-076	Report on mfg methods	25MAR03*	19MAY03	-	0.00	0.00	-1																									
L4-077	Preliminary MIT and QA Plans for VVSA	25MAR03	19MAY03	-	0.00	0.00	-1																									
L4-077.1	Budgetary and cost estimates from R&D Vendors	25MAR03	19MAY03	-	0.00	0.00	-6																									
L4-077.2	MIT and QA plan for PVVS	25MAR03	19MAY03	-	0.00	0.00	77																									
L4-077.3	Relaese fo Prototype Fabrication		19MAY03	-	0.00	0.00	77																									
L4-78	Vendor design/Fab prototype	20MAY03	31OCT03	-	0.00	0.00	77																									
L4-79	Report on add'l manufacturing activities	08SEP03	31OCT03	-	0.00	0.00	77																									
L4-80	Vendors Prep Final plans & firm fixed price est	20JAN04	17FEB04	-	0.00	0.00	76																									
121-5-3	VV R&D and oversight	25MAR03	28OCT03	LOE	0.00	574,663.50	100	GORANSON=160 ; HEITZEN MS=400\$K ;																								
Subtotal		24OCT02A	17FEB04		42,912.82	626,068.30	2,248																									

Run Date 11FEB03 13:59

	2/1/03 Status (current)
	1/1/03 Status
	WAF 10/1/02 Baseline
	Progress Bar
	Critical Activity

0301

NCSX

Sheet 6 of 42

FY03 Work Authorization Plan

STATUS 2/1/03

	Activity ID	Activity Description	Current Start	Current Finish	% Cmpl	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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GORANSON=20 ;

GORANSON=40 ;

GORANSON=240 ; ORN

GORANSON=40 ; DAHL

GORANSON=40 ; DAHL

GORANSON=80hrs; NELSON=120

Run Date 11FEB03 13:59

- 2/1/03 Status (current)
- 1/1/03 Status
- WAF 10/1/02 Baseline
- Progress Bar
- Critical Activity

0301 NCSX Sheet 7 of 42
FY03 Work Authorization Plan

STATUS 2/1/03

Activity ID	Activity Description	Current Start	Current Finish	% Cmpl	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Run Date 11FEB03 13:59

 2/1/03 Status (current)
 1/1/03 Status
 WAF 10/1/02 Baseline
 Progress Bar
 Critical Activity

0301

NCSX

Sheet 8 of 42

FY03 Work Authorization Plan

STATUS 2/1/03

	Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float																								
									FY03												FY04											
									O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	U			
	192-2-1-13	Coil geometry tolerance guidance (wbs 13)	03FEB03*	31JAN03		0.00	0.00	2,517																								
	192-2-3-13	Eddy current analysis&struct time constant wbs13	03FEB03*	31JAN03		0.00	0.00	2,517																								
	Subtotal		01OCT02A	30SEP03		7,322.88	431,844.64	2,348																								

Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04													
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	M	U	
Cost Center: 1850 - NCSX Advanced Concep Design																																	
Work Package: 1***-Stellarator core																																	
Job: 1401 - Mod Coil Dsn -WILLIAMSON																																	
140-1-1	Design-to specification (SRD)	22JAN03A	26FEB03	10	1,152.00	11,520.00	47																										
140-5-11	Develop detailed ProE models of winding forms	22JAN03A	14FEB03	30	9,954.00	33,180.00	2,507																										
L4-093	Incorporate features to resolve issue of multipl	22JAN03A	14FEB03	30	0.00	0.00	40																										
L4-094	Incorporate final port geometry into shell cutou	22JAN03A	14FEB03	30	0.00	0.00	40																										
L4-098	Develop design of wings, including structural at	22JAN03A	21FEB03	30	0.00	0.00	2,502																										
140-5-12	Develop detailed ProE models winding packs&leads	22JAN03A	14FEB03	30	8,569.20	19,300.00	20																										
L4-097	Develop detailed ProE models clamps&cooling sys	24FEB03*	14MAR03		0.00	19,300.00	10																										
140-2-1	Develop ICD for conv coils.vessel,structure	17FEB03*	28MAR03		0.00	16,496.00	30																										
L4-091.1	Develop assy models,incl bolts,insul,	10MAR03*	28MAR03		0.00	19,300.00	15																										
L4-092	Develop design of insulating, bolted joints at f	10MAR03*	14MAR03		0.00	0.00	15																										
L4-095	Incorporate feature to support the VV	17MAR03*	21MAR03		0.00	0.00	15																										
L4-105	Develop ICD with conventional coils (WBS 12)	17FEB03*	21FEB03		0.00	0.00	55																										
L4-096	Incorporate features required for FP and final a	24MAR03*	28MAR03		0.00	0.00	30																										
L4-106	Develop ICD with coil structures (WBS 13)	24FEB03*	28FEB03		0.00	0.00	50																										
L4-107	Develop ICD with diagnostics (WBS 15)	17MAR03*	21MAR03		0.00	0.00	35																										
140-2-3	Develop ICD with cryo,power, I&C	17FEB03*	28MAR03		0.00	13,344.00	30																										
140-5-2	Prepare Preliminary Design Drawings	24MAR03*	18APR03		0.00	43,610.00	20																										
L4-108	Develop ICD with WBS 4, including grounding and	03MAR03*	14MAR03		0.00	0.00	40																										

Run Date 11FEB03 13:59

■ 2/1/03 Status (current)
■ 1/1/03 Status
■ WAF 10/1/02 Baseline
■ Progress Bar
■ Critical Activity

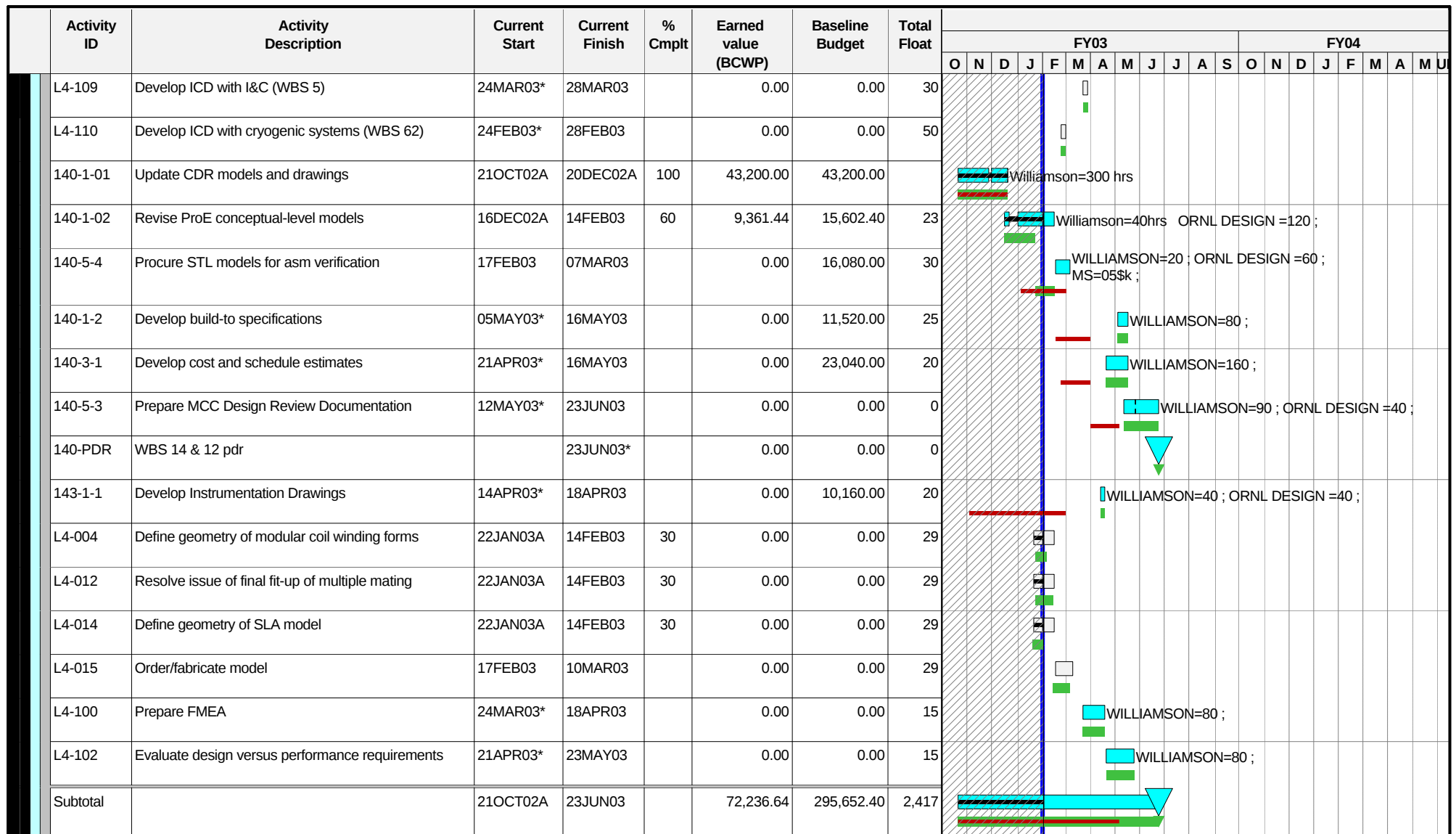
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NCSX

Sheet 10 of 42

FY03 Work Authorization Plan

STATUS 2/1/03



Run Date 11FEB03 13:59

■ 2/1/03 Status (current)
■ 1/1/03 Status
■ WAF 10/1/02 Baseline
■ Progress Bar
■ Critical Activity

0301

NCSX

Sheet 11 of 42

FY03 Work Authorization Plan

STATUS 2/1/03

Activity ID	Activity Description	Current Start	Current Finish	% Cmpl	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04													
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	M	U	
Cost Center: 1850 - NCSX Advanced Concep Design																																	
Work Package: 1***-Stellarator core																																	
Job: 1402 - Mod.Coil Analyses-WILLIAMSON																																	
140-4-01	Update conceptual design analysis	01OCT02A	13DEC02A	100	85,891.28	85,891.28																											
140-4-2	Update 2D/3D thermal analysis incl insulation	16DEC02A	14FEB03	80	14,645.76	18,307.20	26																										
L4-160	Perform cooldown analysis following a pulse	03MAR03*	14MAR03		0.00	0.00	16																										
140-4-1	Develop FE models and perform EM &struc analysis	17FEB03	30APR03		0.00	12,033.60	23																										
L4-155	Calculate EM loads, identify critical load cases	10FEB03*	28FEB03		0.00	18,307.20	16																										
L4-156	Update material properties based on R&D results	03MAR03*	07MAR03		0.00	11,862.40	16																										
140-4-3	Perform stress analysis for critical cases	03MAR03*	09APR03		0.00	48,648.00	16																										
140-4-4	Prepare local models& stress analysis	17MAR03*	18APR03		0.00	18,136.00	16																										
L4-159	Model cooldown from ambient	21APR03*	09MAY03		0.00	18,136.00	16																										
L4-159.1	Prepare Design Review Documentation f/analyses	12MAY03*	30MAY03		0.00	18,136.00	16																										
Subtotal		01OCT02A	30MAY03		100,537.04	249,457.68	16																										

Run Date 11FEB03 13:59

■ 2/1/03 Status (current)
■ 1/1/03 Status
■ WAF 10/1/02 Baseline
■ Progress Bar
■ Critical Activity

0301

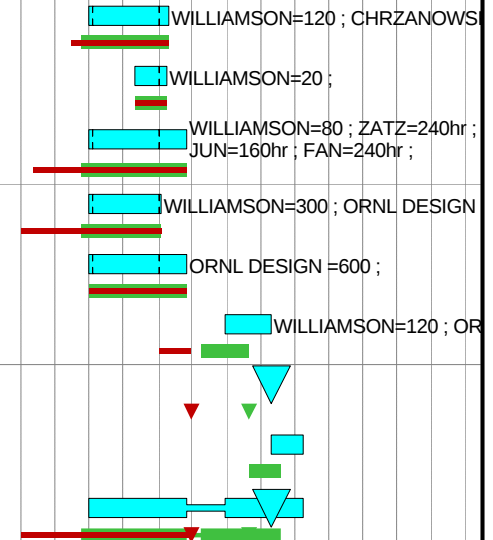
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Sheet 12 of 42

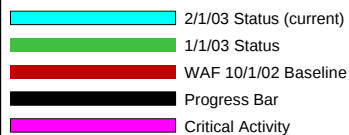
FY03 Work Authorization Plan

STATUS 2/1/03

Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Run Date 11FEB03 13:59



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Sheet 13 of 42

FY03 Work Authorization Plan

STATUS 2/1/03

Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04												
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	M	U
Cost Center: 1850 - NCSX Advanced Concep Design																																
Work Package: 1***-Stellarator core																																
Job:1404-Mod Coil Winding Form R&D-HEITZENROEDER																																
142-1-05	Pre Documentation and Issue RFP	01OCT02A	18OCT02A	100	26,299.68	26,299.68		Williamson=100 hrs;Heitzenroeder=78																								
142-1-06	Vendors Prep Proposals	21OCT02A	16DEC02A	-	0.00	0.00																										
142-1-07	Evaluate & Negotiate Proposals w/vendors	17DEC02A	17JAN03A	-	0.00	0.00																										
142-1-08	DOE Review & Approve	31JAN03A		-	0.00	0.00																										
142-1-1	Answer bidder questions, eval bids,select vendrs	17DEC02A	17JAN03A	LOE	17,964.80	17,964.80		WILLIAMSON=40 ; HEITZENROEDE=80hr ;																								
142-1-10	Proj UpdateTech Pkg (remove cladding)	03FEB03	11FEB03	-	0.00	0.00	2																									
142-1-15	Award Mod. Coil Casting R&D ContractS		14FEB03*	-	0.00	0.00	10	Award Mod. Coil Casting R&D ContractS																								
142-1-2A	Phase I -MIT Plan/cost for production articles A	17FEB03*	25APR03	0	0.00	74,982.40	10	WILLIAMSON=20 ; HEITZENROEDE=40hr ; SC=50\$k ;																								
142-1-2B	Phase I -MIT Plan/cost for production articles B	17FEB03*	25APR03	0	0.00	74,982.40	10	WILLIAMSON=20 ; HEITZENROEDE=40hr ; SC=50\$k ;																								
142-10.1	Proj UpdateTech Pkg (M50 coils,cooling,VPI)	12FEB03	26MAR03	-	0.00	0.00	2																									
142-1-2AP	Phase I -MIT plan for prototype Vndr A	17FEB03*	25APR03	0	0.00	74,982.40	54	WILLIAMSON=20 ; HEITZENROEDE=40hr ; SC=50\$k ;																								
142-1-2BP	Phase I -MIT plan for prototype Vndr B	17FEB03*	25APR03	0	0.00	74,982.40	54	WILLIAMSON=20 ; HEITZENROEDE=40hr ; SC=50\$k ;																								
142-1-30	RELEASE FOR PROTOTYPE FABRICATION		25APR03	0	0.00	0.00	54																									
142-1-3A	Phase II - Fabricate Prototype- VNDR A	28APR03*	29OCT03	0	0.00	747,180.61	54	WILLIAMSON=40 ; HEITZEN SC=450\$k ;																								
142-1-3B	Phase II - Fabricate Prototype- VNDR B	28APR03*	29OCT03	0	0.00	747,180.61	54	WILLIAMSON=40 ; HEITZEN SC=450\$k ;																								
C-061	Castings-R&D Casting Reports		29OCT03		0.00	0.00	54																									
142-1-4A	Phase III - Final MIT plans, detailed est-VNDR A	08JAN04*	04FEB04	0	0.00	4,695.00	54	WILLIAMSON=10 ; HEITZENROEDE=20hr ; SC=100\$k ;																								

Run Date 11FEB03 13:59

 2/1/03 Status (current)
 1/1/03 Status
 WAF 10/1/02 Baseline
 Progress Bar
 Critical Activity

0301

NCSX

Sheet 14 of 42

FY03 Work Authorization Plan

STATUS 2/1/03

Activity ID	Activity Description	Current Start	Current Finish	% Cmpl	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04											
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J			
Cost Center: 1850 - NCSX Advanced Concep Design																															
Work Package: 1***-Stellarator core																															
Job: 1405-Mod Coil Winding R&D Prep-CHRZANOWSKI																															
142-9-0	Dev SOW for cladding R&D	29JAN03A	14FEB03	20	0.00	0.00	0																								
142-9-1	Internal R&D for cladding	17FEB03*	18APR03		0.00	0.00	0																								
142-9-2	Choose cladding method		18APR03		0.00	0.00	0																								
142-9-3	Update performance spec/dwgs for cladding f/PDR	21APR03	09MAY03		0.00	0.00	0																								
141-1-1	Design Prototypes for R&D Activities	01OCT02A	28FEB03	95	73,265.75	77,121.84	2,497	RAFTOPOULOS=80hr ; CHRZANOWSKI =144hr ; PAUL =430hr ;																							
L4-141	Develop process design	02JAN03A	15JAN03A	100	0.00	0.00																									
L4-142	Peer review process design	15JAN03A	15JAN03A	100	0.00	0.00																									
141-1-2	Procure supplies/equip. for R&D Trials	28OCT02A	06JUN03	45	35,839.62	79,643.60	2,428	MEIGHAN=120hr ; CHRZANOWSKI =80hr ; MS=42\$k																							
141-1-2.1	Procure copper	02DEC02A	31JAN03A	100	19,800.00	19,800.00		Copper= \$15k																							
141-1-3	Fabricate winding forms/molds for trials	28OCT02A	28APR03	75	265,422.48	353,896.64	178	FOM TECHS TB=1,728hr ; MACHINIST=1,152hr ; RAFTOPOULOS =176hr ; MS=65\$k ;																							
L4-139	Fabricate 1st (straight) winding form at PPPL	18NOV02A	17DEC02A	100	0.00	0.00																									
L4-140	Place contract for 2nd and 3rd winding forms	18NOV02A	17DEC02A	100	0.00	0.00																									
L4-146	Fab and Deliver 2nd winding form	18DEC02A	31JAN03A	100	0.00	0.00																									
L4-149.1	Fab & Deliver 3rd winding form	03JAN03A	31JAN03A	100	0.00	0.00																									
L4-152	Fab and deliver 4th winding form	03FEB03	07APR03		0.00	0.00	193																								
L4-300	Place contract for Oval Tee Mold (5th)	03FEB03	14FEB03		0.00	0.00	2,489																								
L4-302	Fab & Deliver Oval Tee Mold (5th)	17FEB03	12MAR03		0.00	0.00	2,489																								
L4-304	Place Contract for Tee Return Molds (6th)	03FEB03	14FEB03		0.00	0.00	2,489																								

Run Date 11FEB03 13:59

	2/1/03 Status (current)
	1/1/03 Status
	WAF 10/1/02 Baseline
	Progress Bar
	Critical Activity

0301

NCSX

Sheet 16 of 42

FY03 Work Authorization Plan

STATUS 2/1/03

	Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float																								
									FY03												FY04											
									O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J			
	L4-306	Fab & Deliver Return Molds (6th)	17FEB03	12MAR03		0.00	0.00	2,489																								
	Subtotal		01OCT02A	06JUN03		394,327.85	530,462.08	2,428																								

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Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04											
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	M
Cost Center: 1850 - NCSX Advanced Concep Design																															
Work Package: 1***-Stellarator core																															
Job: 1406 - Mod. Coil Winding R&D-CHYZANOWSKI																															
141-2-1	Develop VPI mold & impregnation techniques	01OCT02A	31MAR03	65	102,523.57	157,728.57	189	KEARNS=496hr ; MACHINIST=863hr ; MEIGHAN=200hr ; CHYZANOWSKI =100hr ;																							
L4-129	Prepare TFTR basement for winding R&D, set up eq	04NOV02A	27NOV02A		0.00	0.00																									
L4-130	Select epoxy resin	02DEC02A	20DEC02A		0.00	0.00																									
L4-131	Prepare NEPA and WP to cover winding development	02DEC02A	20DEC02A		0.00	0.00																									
L4-132	Develop VPI procedure for impregnating molded co	19NOV02A	28FEB03	50	0.00	0.00	124																								
L4-133	Prep single conductor molds and test samples	02DEC02A	17DEC02A		0.00	0.00																									
L4-134	VPI single conductor test samples	18DEC02A	20DEC02A		0.00	0.00																									
141-1-3.1	Fabricate Tensile Test Specimens (SOW 4.6)		24FEB03		0.00	0.00	176																								
141-2-1.01	Determine material properties and allowables	02DEC02A	17APR03	10	3,760.96	90,409.60	176	SC=40\$k ;M&S=\$10k Zatz=160hrs																							
L4-119	Establish test rqmts	16DEC02A	20DEC02A		0.00	0.00																									
L4-121	Peer review test plans and specimens	02JAN03A	15JAN03A	100	0.00	0.00																									
L4-124	Place contracts for outside testing	03FEB03*	14FEB03		0.00	0.00	176																								
L4-122	Fabricate molds for test speciments	17FEB03*	14FEB03		0.00	0.00	176																								
L4-123	Fabricate test specimens	17FEB03*	24FEB03		0.00	0.00	176																								
L4-125	Perform tests on test specimens, establish prope	25FEB03*	24MAR03		0.00	0.00	176																								
L4-126	Review results of test program	25MAR03*	28MAR03		0.00	0.00	176																								
L4-127	Update design criteria	31MAR03*	17APR03		0.00	0.00	176																								
141-2-1.1	Select Epoxy Resin System (SOW 4.3)		28MAR03*		0.00	0.00	2,422																								

Run Date 11FEB03 13:59

	2/1/03 Status (current)
	1/1/03 Status
	WAF 10/1/02 Baseline
	Progress Bar
	Critical Activity

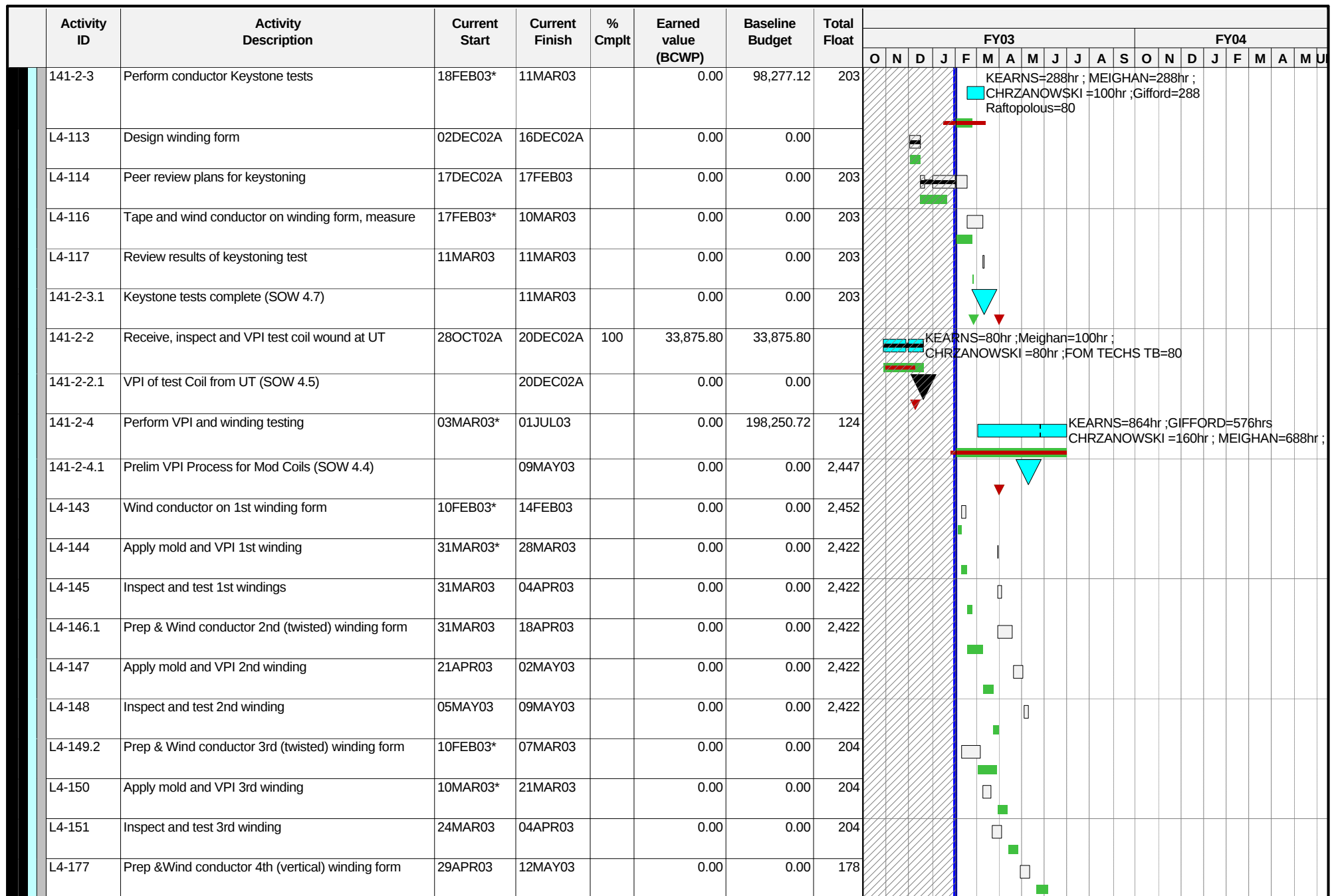
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NCSX

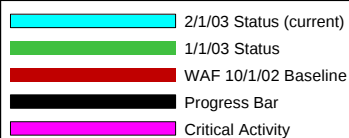
Sheet 18 of 42

FY03 Work Authorization Plan

STATUS 2/1/03



Run Date 11FEB03 13:59



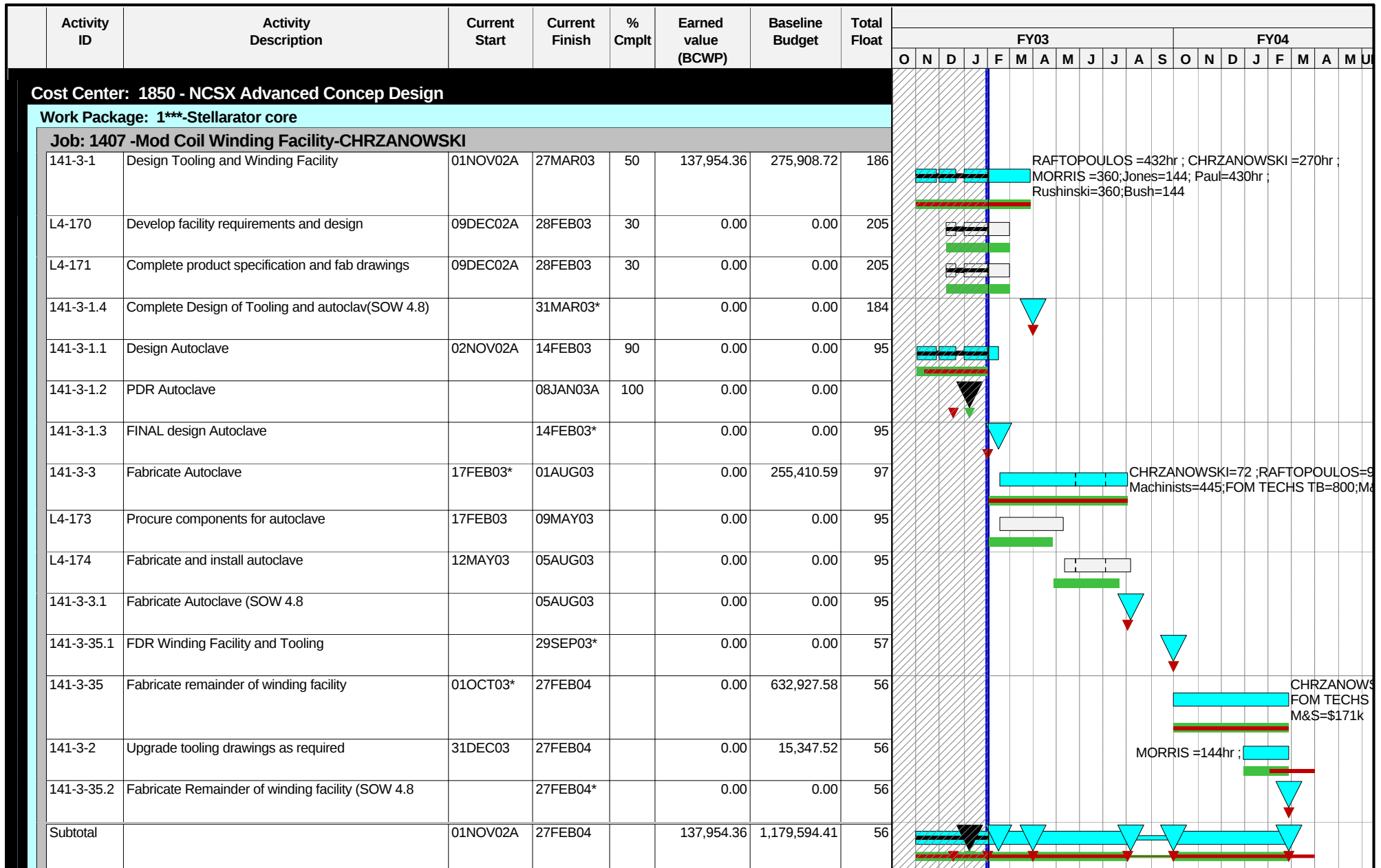
0301

NCSX

Sheet 19 of 42

FY03 Work Authorization Plan

STATUS 2/1/03



Run Date 11FEB03 13:59

■ 2/1/03 Status (current)
■ 1/1/03 Status
■ WAF 10/1/02 Baseline
■ Progress Bar
■ Critical Activity

0301

NCSX

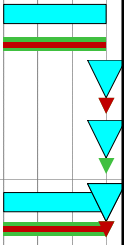
Sheet 21 of 42

FY03 Work Authorization Plan

STATUS 2/1/03

Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04													
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	U					
Cost Center: 1850 - NCSX Advanced Concep Design																																	
Work Package: 1***-Stellarator core																																	
Job:1408-Mod Coil Proto Coil Winding-CHYZANOWSKI																																	
141-3-45	Wind, VPI & test prototype coil	01MAR04*	31MAY04		0.00	306,342.12	56																										
141-3-45.1	Complete Prototype Winding (SOW 4.9)		31MAY04*		0.00	0.00	56																										
141-3-45.2	Final Procedures & Process Plan (SOW 4.10)		31MAY04		0.00	0.00	56																										
Subtotal		01MAR04	31MAY04		0.00	306,342.12	56																										

POM TECHS TB=1728hr ; MEIGHAN=576hr ;
 RAFTOPOULOS =192hr ; CHYZANOWSKI =460hr ;



Run Date 11FEB03 13:59

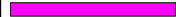
- 2/1/03 Status (current)
- 1/1/03 Status
- WAF 10/1/02 Baseline
- Progress Bar
- Critical Activity

0301 NCSX Sheet 22 of 42
 FY03 Work Authorization Plan

STATUS 2/1/03

Activity ID	Activity Description	Current Start	Current Finish	% Cmpl	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04													
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	U					
Cost Center: 1850 - NCSX Advanced Concep Design																																	
Work Package: 1***-Stellarator core																																	
Job: 1501 - Structures Design-FEDER																																	
150-1-0	Update Conceptual Design	14OCT02A	20DEC02A	100	12,268.80	12,268.80																											
150-1-1	Draft of 1) SRD, and 2) SDD Section III - Requir	02JAN03A	28FEB03	10	1,226.88	12,268.80	2,497																										
150-1-2	General arrangement models and drawings	11FEB03*	04APR03		0.00	28,249.60	2,472																										
150-1-3	Interface drawings	28FEB03*	27MAR03		0.00	28,249.60	2,478																										
150-2-1	Drawings, models, SDD Sect IV text for TF and ou	28MAR03*	09JUL03		0.00	48,508.80	2,406																										
150-2-2	Same data for central solenoid supports and TF b	12JUN03*	08AUG03		0.00	40,518.40	2,384																										
150-2-3	Support structure I&C	10JUL03*	20AUG03		0.00	20,259.20	2,376																										
150-3-1	Develop thermal/structural FEA models of cols, i	24JUN03*	23JUL03		0.00	12,204.80	2,396																										
150-3-2	Incorporate EM loads and load cases from global	24JUL03*	06AUG03		0.00	12,204.80	2,386																										
150-3-3	Evaluate stress/deflection due to EM / gravity /	07AUG03*	22AUG03		0.00	12,204.80	2,374																										
150-3-4	Prepare analysis reports, SDD analysis summary,	18AUG03*	08SEP03		0.00	6,102.40	2,364																										
150-4-1	Document fabrication and assembly options for co	02JUL03*	09JUL03		0.00	12,268.80	2,406																										
150-4-2	Update cost and schedule estimates WBS 15	03MAR03*	01APR03		0.00	12,268.80	2,475																										
150-4-3	Prepare plans for FY-04	05SEP03*	18SEP03		0.00	6,134.40	2,356																										
150-4-4	Prepare PDR documentation for WBS 15	28AUG03*	30SEP03		0.00	6,134.40	2,348																										
192-1-2-15	Self consistent models/dwgs Conv coil/strct PDR	02JUN03*	10SEP03		0.00	13,220.00	2,362																										
Subtotal		14OCT02A	30SEP03		13,495.68	283,066.40	2,348																										

Run Date 11FEB03 13:59

 2/1/03 Status (current)
 1/1/03 Status
 WAF 10/1/02 Baseline
 Progress Bar
 Critical Activity

0301

NCSX

Sheet 23 of 42

FY03 Work Authorization Plan

STATUS 2/1/03

Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04												
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	M	U
Cost Center: 1850 - NCSX Advanced Concep Design																																
Work Package: 1***-Stellarator core																																
Job: 1601 - Coil Services Design-WILLIAMSON																																
161-1-1	Draft "design-to" spec.	03MAR03*	30APR03		0.00	6,134.40	2,454																									
161-1-2	Interface control documents for modular coils	03MAR03*	30APR03		0.00	6,134.40	2,454																									
161-1-3	Interface control document for conventional coil	02JUN03*	27AUG03		0.00	6,134.40	2,371																									
161-2-1	Update cost estimate for LN2 distribution system	03MAR03*	01APR03		0.00	3,680.64	2,475																									
161-2-2	Update planning for FY-04	12AUG03*	09SEP03		0.00	2,453.76	2,363																									
162-1-1	Interface control documents for modular coils	03MAR03*	30APR03		0.00	9,153.60	2,454																									
162-1-2	Interface control document for conventional coil	02JUN03*	27AUG03		0.00	9,153.60	2,371																									
162-2-1	Update cost estimate coil electrical leadsWBS162	03MAR03*	01APR03		0.00	3,661.44	2,475																									
162-2-2	Update planning for FY-04	12AUG03*	09SEP03		0.00	2,440.96	2,363																									
163-1-1	Design-to specification **N/R**	03FEB03	31JAN03		0.00	0.00	2,517																									
163-1-2	Coil protection system architecture and sys resp	03MAR03*	31MAR03		0.00	11,445.60	2,413																									
163-1-3	Define Interfaces	01APR03*	28APR03		0.00	11,445.60	2,413																									
163-2-1	Interface control documents for modular coils	29APR03*	27JUN03		0.00	5,722.80	2,413																									
163-2-2	Interface control document for conventional coil	02JUN03*	27AUG03		0.00	5,722.80	2,371																									
163-3-1	Update cost estimate coil protection systWBS 163	03MAR03*	01APR03		0.00	3,433.68	2,475																									
163-3-2	Update planning for FY-04	12AUG03*	09SEP03		0.00	2,289.12	2,363																									
Subtotal		03FEB03	09SEP03		0.00	89,006.80	2,363																									

Run Date 11FEB03 13:59

 2/1/03 Status (current)
 1/1/03 Status
 WAF 10/1/02 Baseline
 Progress Bar
 Critical Activity

0301

NCSX

Sheet 24 of 42

FY03 Work Authorization Plan

STATUS 2/1/03

Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04											
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J			
Cost Center: 1850 - NCSX Advanced Concep Design																															
Work Package: 1***-Stellarator core																															
Job:1701-Cryost&Base Sprt Strct Dsn-GETTLEFINGER																															
171-1-0	Update Conceptual design	03FEB03*	19FEB03		0.00	12,268.80	2,504	GETTLEFINGER=80hr ;																							
171-1-1	Cryostat interface with VV and Mod coils	18FEB03*	31MAR03		0.00	12,268.80	2,476	GETTLEFINGER=80hr ;																							
171-1-2	Cryostat interface with conv coils & structure	02JUN03*	27AUG03		0.00	12,268.80	2,348	GETTLEFINGER=80hr ;																							
171-2-1	Cryostst-update cost estimat	03MAR03*	01APR03		0.00	3,680.64	2,475	GETTLEFINGER=24hr ;																							
171-2-2	Cryostat-update planning for FY-04	12AUG03*	09SEP03		0.00	2,453.76	2,363	GETTLEFINGER=16hr ;																							
172-1-1	Base structure Design CAD models/dwgs	06FEB03*	01MAY03		0.00	40,518.40	2,453	GETTLEFINGER=160hr ; MECH DESIGN =160hr ;																							
172-1-2	Base Struct Design analysis reports	03JUN03*	27AUG03		0.00	24,537.60	2,371	GETTLEFINGER=160hr ;																							
172-2-1	Base Struct interface with VV and Mod coils	03FEB03*	02APR03		0.00	13,196.80	2,474	GETTLEFINGER=60hr ; MECH DESIGN =40hr ;																							
172-2-2	Base Struct interface with conv coils and struc	02JUN03*	27AUG03		0.00	13,196.80	2,348	GETTLEFINGER=60hr ; MECH DESIGN =40hr ;																							
172-3-1	Base Struct- update cost estimate	03MAR03*	01APR03		0.00	3,680.64	2,475	GETTLEFINGER=24hr ;																							
172-3-2	Base Struct-Update planning for FY-04	12AUG03*	09SEP03		0.00	2,453.76	2,363	GETTLEFINGER=16hr ;																							
Subtotal		03FEB03	09SEP03		0.00	140,524.80	2,363																								

Run Date 11FEB03 13:59

 2/1/03 Status (current)
 1/1/03 Status
 WAF 10/1/02 Baseline
 Progress Bar
 Critical Activity

0301

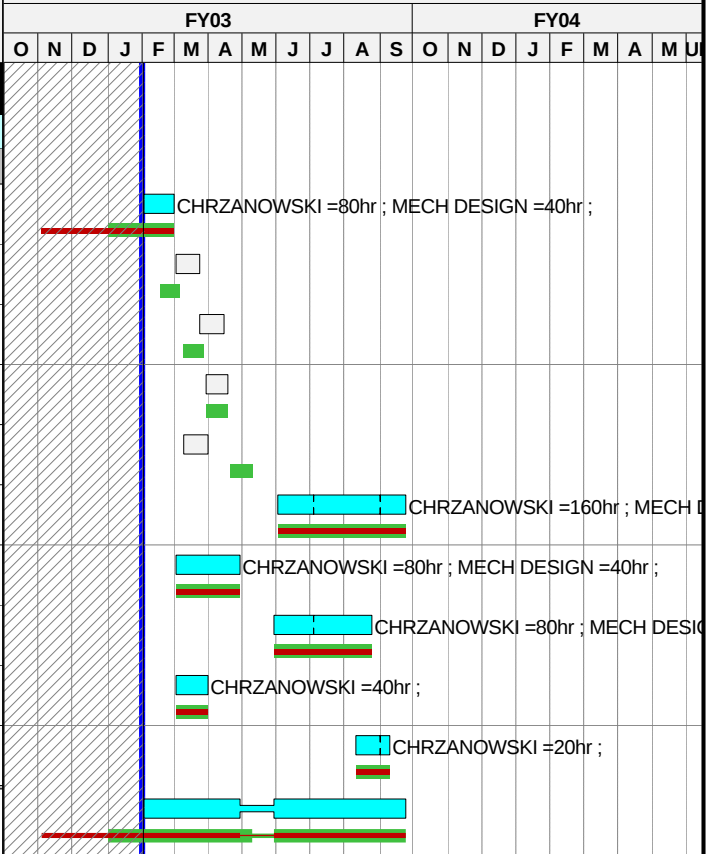
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Sheet 25 of 42

FY03 Work Authorization Plan

STATUS 2/1/03

Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Cost Center: 1850 - NCSX Advanced Concep Design																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</



Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04											
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	M
Cost Center: 1850 - NCSX Advanced Concep Design																															
Work Package: 1***-Stellarator core																															
Job: 1901 - Stellarator Core Mngtt&Integr-NELSON																															
0191-1-5	LOE-Day to day telecons, meetings,Design and R&D	01OCT02A	30SEP03	LOE	29,296.96	91,840.00	2,348	NELSON=560 ;																							
0192-1-3	LOE-Day to day coordin of Pro-E & Pro-Intrali	01OCT02A	30SEP03	LOE	18,374.40	57,600.00	2,348	COLE=400 ;																							
121-1-01	Update Conceptual Design of Stellarator Core	01OCT02A	28FEB03	80	15,744.00	19,680.00	3	NELSON=120hrs																							
191-1-1	Modular Coil / VV dsn review and documentation	05FEB03*	02MAY03		0.00	26,240.00	2,452	NELSON=160 ;																							
191-1-2	CD 2 cost and schedule update for WBS 1	03FEB03*	01APR03		0.00	19,680.00	2,475	NELSON=120 ;																							
191-1-3	FY04 work plans	14AUG03*	04SEP03		0.00	6,560.00	2,366	NELSON=40 ;																							
191-1-4	Conventional Coils / support structure dsn rww	05MAY03*	30SEP03		0.00	19,680.00	2,348	NELSON=120 ;																							
192-1-2	Self consistent models/dwgs Conv coil/strct PDR	02JUN03*	10SEP03		0.00	26,440.00	2,362	JONES =40 ; COLE=160 ;																							
192-1-4	Prepare Stellarator Core Assembly dwgs &assy seq	01NOV02A	15APR03	32	14,215.68	44,424.00	2,465	JONES =360 ; COLE=96 ;																							
192-2-2	Material permeability limits vs location	28FEB03*	15APR03		0.00	0.00	2,465																								
192-2-4	Prepare stellarator core assembly dsn criteria	28FEB03*	15MAY03		0.00	35,088.80	2,443	ZATZ=230																							
L4-022	Define preliminary S1, S2, and S3 states	04MAR03*	10MAR03		0.00	0.00	2,441																								
L4-023	Confirm final S1, S2, and S3 states	11MAR03*	17MAR03		0.00	0.00	2,466																								
L4-024	Perform flexibility studies	18MAR03*	14APR03		0.00	0.00	2,466																								
L4-025	Perform initial divertor (edge modeling) studies	04MAR03*	31MAR03		0.00	0.00	4																								
192-2-5A	continuing analysis/final rprts f/mod coil FY 03	01APR03*	30SEP03		0.00	19,527.68	2,348	ZATZ=160																							
193-1-1	Doc time cstnt/rqmnts f/ insul breaks vv/mc	28FEB03*	28FEB03		0.00	12,204.80	2,497	Document in an analysis report the results of (previously calculated) time constant assessments and requirements for insulating breaks for the vacuum vessel and modular coils BROOKS =80																							

Run Date 11FEB03 13:59

	2/1/03 Status (current)
	1/1/03 Status
	WAF 10/1/02 Baseline
	Progress Bar
	Critical Activity

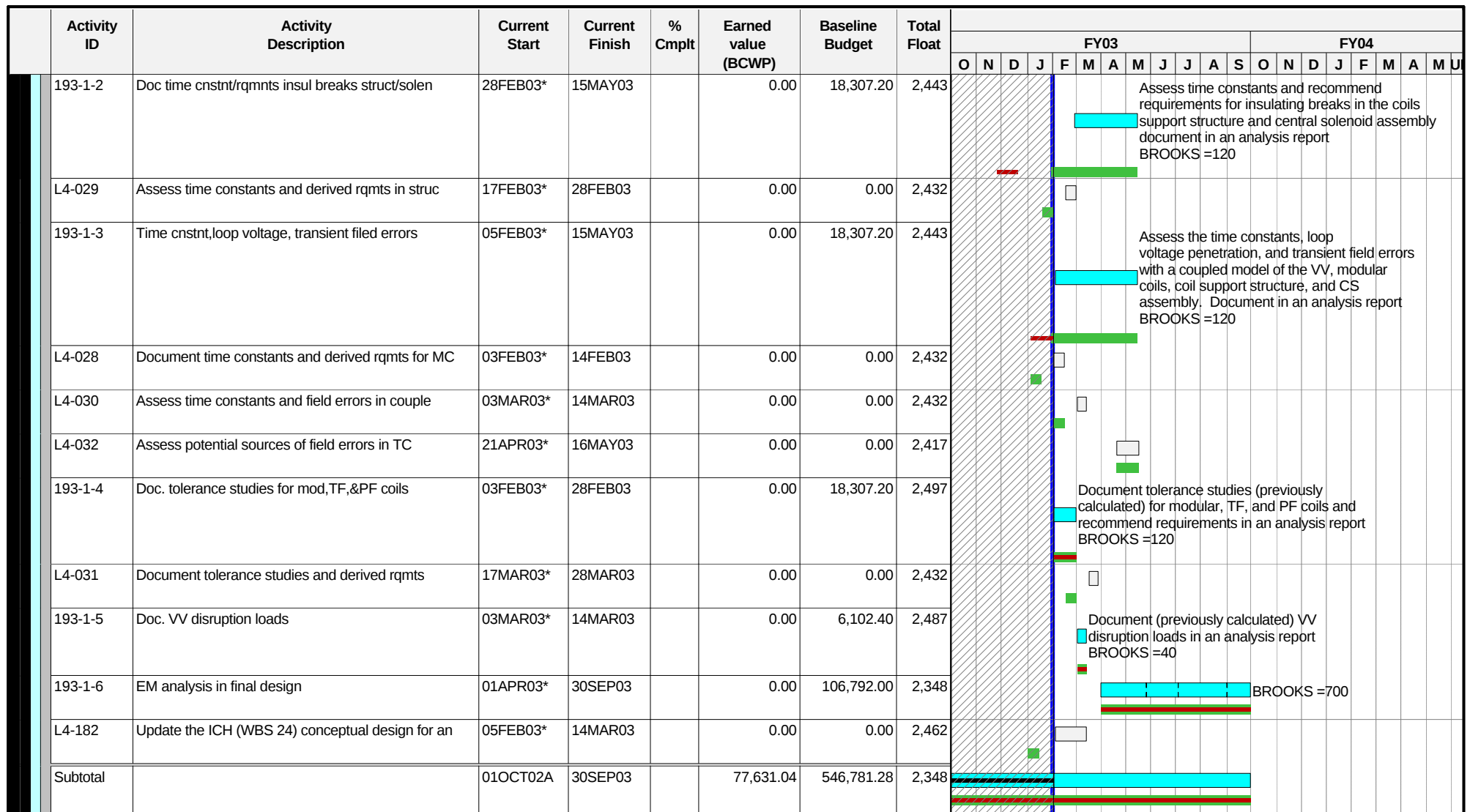
0301

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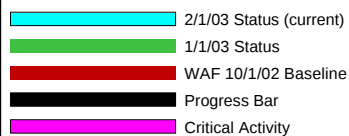
Sheet 27 of 42

FY03 Work Authorization Plan

STATUS 2/1/03



Run Date 11FEB03 13:59



0301

NCSX

Sheet 28 of 42

FY03 Work Authorization Plan

STATUS 2/1/03

Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04											
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	M
Cost Center: 1850 - NCSX Advanced Concep Design																															
Work Package: 2*** -Heating, Fueling and Vac Sys																															
Job: 2501 - Neutral Beam Refurbishment-STEVENSON																															
L4-188	Update cost and schedule estimates	17MAR03*	28MAR03		0.00	0.00	2,452																								
250-0001	Design & work planning	02DEC02A	30SEP03	5	1,092.85	21,856.72	2,348																								
250-0003	Systems Engineering & Interfaces	02DEC02A	30SEP03	5	686.74	13,734.72	2,348																								
250-0005	Design Layout and Routing	02DEC02A	30SEP03	5	571.03	11,420.64	2,348																								
250-0006	Procedures	28OCT02A	30SEP03	8	652.61	8,157.60	2,348																								
250-0007	Power Supply Eval-Pole Xfmr AC Power Test	02JAN03A	28FEB03	20	2,746.94	13,734.72	2,497																								
250-0009	Power Supply Eval-Clean Accel Rectifier	02DEC02A	28MAR03	2	141.47	7,073.74	2,401																								
250-0011	Power Supply Eval-Hipot Accel Rectifier	31MAR03	23MAY03		0.00	7,073.74	2,401																								
250-0013	Power Supply Eval-Local Test Accel Rectifier	27MAY03	16JUL03		0.00	7,073.74	2,401																								
250-0015	Power Supply Eval-Evaluate Phase Controller	02JAN03A	16SEP03	10	407.88	4,078.80	2,358																								
250-0017	Power Supply Eval-Modulator Restoration	21OCT02A	28FEB03	10	532.33	5,323.28	2,497																								
250-0019	Power Supply Eval-Fault Detector Evaluation	02DEC02A	28FEB03	10	532.33	5,323.28	2,373																								
250-0021	Power Supply Eval-Crowbar Test	03MAR03	11APR03		0.00	5,323.28	2,373																								
250-0023	Power Supply Eval-Relocate DL to Mod Area	14APR03	23MAY03		0.00	5,323.28	2,373																								
250-0025	Power Supply Eval-Accel System Test	27MAY03	25AUG03		0.00	44,134.40	2,373																								
250-0025.5	Repair existing leak detector	03FEB03*	28FEB03		0.00	0.00	2,497																								
250-0026	Purchase Leak Detector **on hold pending CR**	03MAR03*	25APR03		0.00	33,000.00	2,457																								
250-0027	Beamline #1 Evaluations-Vacuum Test	02JAN03A	28FEB03	3	273.53	9,117.90	2,497																								

Run Date 11FEB03 13:59

	2/1/03 Status (current)
	1/1/03 Status
	WAF 10/1/02 Baseline
	Progress Bar
	Critical Activity

0301

NCSX

Sheet 30 of 42

FY03 Work Authorization Plan

STATUS 2/1/03

Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Run Date 11FEB03 13:59

	2/1/03 Status (current)
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	WAF 10/1/02 Baseline
	Progress Bar
	Critical Activity

0301

NCSX

Sheet 32 of 42

FY03 Work Authorization Plan

STATUS 2/1/03

	Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04											
									O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
	390-305	provide input to VV CDR	03FEB03*	28FEB03		0.00	1,125.76	2,500																								
	390-4	MAGNETIC DIAGNOSTICS	02DEC02A	07MAY03		0.00	0.00	2,452																								
	390-401	define measurement reqts for slow magnetics	03FEB03*	06MAR03		0.00	8,772.16	2,452																								
	390-402	invest space envelopes magn sensors inside vsl	02DEC02A	05MAR03	32	2,086.60	6,520.64	2,497																								
	390-403	consider altern locations electr vac feedthrus	07MAR03	07MAY03		0.00	4,503.04	2,452																								
	390-404	invest space envel for magn sensors outside vsl	07MAR03	07MAY03		0.00	4,503.04	2,452																								
	390-405	enrg mtg present space envel/mounting concepts	03FEB03*	28FEB03		0.00	2,251.52	2,500																								
	390-406	document space envelope for slow magnetics	03MAR03*	28MAR03		0.00	2,251.52	2,480																								
	390-407	define high freq. Mirnov coil requirements	03JAN03A	28FEB03	20	225.15	1,125.76	2,500																								
	390-408	conc dsn space envel high freq Mirnov coils	03JAN03A	03MAR03	20	450.30	2,251.52	2,499																								
	390-5	E-BEAM CONCEPT EXPLORATION	01MAY03	30JUL03		0.00	0.00	2,392																								
	390-501	define space and time resolution requirements	01MAY03*	30JUN03		0.00	8,889.12	2,414																								
	390-502	define vacuum scenarios to be probed	01MAY03*	30JUN03		0.00	5,628.80	2,414																								
	390-503	prep physics mtg presenta reqnts, scenarios	01JUL03*	30JUL03		0.00	3,377.28	2,392																								
	390-504	continue concept exploration detecting e-beam	01MAY03*	30JUN03		0.00	14,115.84	2,414																								
	390-601	Investig Diagn Issues w/other stellartor groups	01MAY03*	30JUL03		0.00	16,148.08	2,392																								
	Subtotal		01OCT02A	01SEP03		54,233.11	225,448.00	2,369																								

Run Date 11FEB03 13:59

 2/1/03 Status (current)
 1/1/03 Status
 WAF 10/1/02 Baseline
 Progress Bar
 Critical Activity

0301

NCSX

Sheet 33 of 42

FY03 Work Authorization Plan

STATUS 2/1/03

	Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float																					
									FY03							FY04													
									O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	U
	451-0002	Calculations FY03	03FEB03*	31MAR03		0.00	6,867.36	2,476																					
	Subtotal		03FEB03	30SEP03		0.00	66,255.36	2,348																					
Job: 4601 - FCPC Bldg Modifications-RAKI																													
	460-0001	Electrical Clearing (procedures and field)	03FEB03*	27MAR03		0.00	18,044.94	2,468																					
	460-0002	Mechanical Clearing (procedures and field)	17FEB03	10APR03		0.00	24,191.46	2,468																					
	Subtotal		03FEB03	10APR03		0.00	42,236.40	2,468																					

Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04													
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S		
Cost Center: 1850 - NCSX Advanced Concep Design																																	
Work Package: 5*** NCSX Central I&C																																	
Job: 5801 -Central I&C Integr & Oversight-OLIARO																																	
58-2003	Systems Integration and oversight FY03	03FEB03*	30SEP03		0.00	23,872.27	2,348																										
Subtotal		03FEB03	30SEP03		0.00	23,872.27	2,348																										

Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Activity ID	Activity Description	Current Start	Current Finish	% Cmpl	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04											
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	U			
Cost Center: 1850 - NCSX Advanced Concep Design																															
Work Package: 7*** - Test Cell Preparation																															
Job: 7101 - Shield Wall Modif Design-PERRY																															
613.001	Design	01APR03*	21MAY03		0.00	13,802.40	691	Perry=90hr ;																							
613.005	Final Design	22MAY03	29JUL03		0.00	36,806.40	691	Perry=240hr ;																							
Subtotal		01APR03	29JUL03		0.00	50,608.80	691																								
Job: 7401 - TC Prep & Mach Assy Planning-PERRY																															
711A.010	LOE FY03	01NOV02A	30SEP03	LOE	14,510.92	58,276.80	2,348	PERRY =380hr ;																							
711A.010.1	Prep Final Assembly Plan	03FEB03*	28FEB03		0.00	0.00	2,497																								
711A.011	Review and update WBS 7 cost/schedule baseline	03FEB03*	28FEB03		0.00	0.00	2,497																								
EXFAC001	Excess Fac.-Relocate CDX pwr cables	01MAY03*	27JUN03		0.00	0.00	2,413																								
EXFAC002	Excess Fac.-Savalge vendor remove PBX device	02JUN03*	29AUG03		0.00	0.00	2,369																								
EXFAC003	Excess Fac.-Clear PBX control room	27JAN03A	24JUL03		0.00	0.00	2,395																								
GPP001	GPP-Upgarde C-Site central chilled wtr plant	01OCT02A	01OCT02A		0.00	0.00																									
GPP002	GPP-CS Water sys refurbishment	03FEB03	03FEB03		0.00	0.00	2,516																								
GPP003	GPP-Demineralizer refurbishment	03FEB03	03FEB03		0.00	0.00	2,516																								
GPP004	GPP-Roofing	03FEB03	03FEB03		0.00	0.00	2,516																								
GPP005	GPP-Test Cell lighting	03FEB03	03FEB03		0.00	0.00	2,516																								
GPP006	GPP-Test Cell HVAC/dew point control	03FEB03	03FEB03		0.00	0.00	2,516																								
GPP007	GPP-C-Site elevators	01APR03*	28APR03		0.00	0.00	2,456																								
GPP008	GPP-Fire suppression	03FEB03	03FEB03		0.00	0.00	2,516																								
Subtotal		01OCT02A	30SEP03		14,510.92	58,276.80	2,348																								

Run Date 11FEB03 13:59

■ 2/1/03 Status (current)
■ 1/1/03 Status
■ WAF 10/1/02 Baseline
■ Progress Bar
■ Critical Activity

0301

NCSX

Sheet 38 of 42

FY03 Work Authorization Plan

STATUS 2/1/03

Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04													
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	U					
Cost Center: 1850 - NCSX Advanced Concep Design																																	
Work Package: 8*** - NCSX Project Oversight																																	
Job: 8101 - Project Management & Control-NEILSON																																	
810.001	Project Management Office PPPL FY03	01OCT02A	30SEP03	LOE	184,841.98	579,441.91	2,348																										NEILSON=1,520hr ; STRYKOWS HAMPTON=624hr ; MS=12\$ TRAVEL=12\$ SCHMIDT=447h
Subtotal		01OCT02A	30SEP03	LOE	184,841.98	579,441.91	2,348																										
Job: 8102 - NCSX MIE Management ORNL-LYON																																	
810.101	Project Management Office ORNL FY03	01OCT02A	30SEP03	LOE	37,214.66	109,133.92	2,348																										LYON=356hr ; MS=02\$ TRAVEL=02\$; BENSON=178hr ; AKERS =178hr ;
Subtotal		01OCT02A	30SEP03	LOE	37,214.66	109,133.92	2,348																										

NEILSON=1,520hr ; STRYKOWS
HAMPTON=624hr ; MS=12\$
TRAVEL=12\$; SCHMIDT=447h

LYON=356hr ; MS=02\$;
TRAVEL=02\$; BENSON=178hr ;
AKERS=178hr ;

Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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	Critical Activity

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NCSX
FY03 Work Authorization Plan

Sheet 40 of 42

STATUS 2/1/03

	Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float																								
									FY03												FY04											
									O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	U			
	820.173	General syst analysis support	01OCT02A	30SEP03	LOE	17,033.32	53,396.00	2,348	BROOKS=350hr ;																							
	L4-007	Define CS coil locations and envelopes	02DEC02A	16DEC02A	100	0.00	0.00																									
	L4-008	Define current waveforms for reference scenarios	11MAR03*	10MAR03		0.00	0.00	2,441																								
	L4-009	Finalize number of turns, coil x-sections, and m	11MAR03*	10MAR03		0.00	0.00	2,441																								
	L4-191	Finalize the GRD	03FEB03*	14FEB03		0.00	0.00	2,507																								
	L4-192	GRD spec review	17FEB03*	14FEB03		0.00	0.00	2,507																								
	L4-193	Provide format requirements for performance spec	03FEB03*	31JAN03		0.00	0.00	205																								
	Subtotal		01OCT02A	30SEP03		19,474.28	118,996.80	2,348																								

Activity ID	Activity Description	Current Start	Current Finish	% Cmplt	Earned value (BCWP)	Baseline Budget	Total Float	FY03												FY04												
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
Cost Center: 1850 - NCSX Advanced Concep Design																																
Work Package: 8*** - NCSX Project Oversight																																
Job: 8401 - Project Phycis-ZARNSTORFF																																
840.200	Develop Healed coil design	01OCT02A	16DEC02A		0.00	0.00																										
840.201	PPPL Project Physics/Engr Analysis FY03	01OCT02A	30SEP03	LOE	80,162.33	251,292.56	2,348																									
Subtotal																																
Job: 8402 - Project Physics MIE ORNL-LYON																																
840.301	ORNL Project Physics/Engr Analysis FY03	01OCT02A	05SEP03	LOE	36,196.32	99,168.00	2,365																									
Subtotal																																

MS=06\$k ; TRAVEL=06\$k ;
HUDSON=447hr ; ZARNSTORFF
KU=330hr ;KUGEL=265hrs

LAZARUS=587 ; TRAVEL=02\$;
MS=01\$;