

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																													
								FY03		FY04										FY05																
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O		
	1203-351	Update Design and Factor into FDR Package	90	17NOV03*	29MAR04	100	20,590.40																													
	1203-361	Final Design of Insulation and Heating/Cooling	90	17NOV03*	29MAR04	100	29,856.08																													
	121-6-6	Finalize tech Doc package & Resolve chits	15	24MAY04	14JUN04	153	1,286.90																													
	121-6-8	Evaluate and Select VV Production Vendor	10	14JUL04	27JUL04	154	2,901.90																													
	121-6-83	Negotiate with vendor	10	28JUL04	10AUG04	154	1,615.00																													
	121-6-85	DOE Approve VV Selection & contract	10	11AUG04	24AUG04	154	0.00																													
	121-6-9	Award VV Production Vendor (Phase funded)	0		24AUG04	154	0.00																													
	121-36-9.2	Release for Fabrication	0		24AUG04	154	0.00																													
Subtotal			217	15OCT03	24AUG04	2,091	460,014.50																													

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																													
								FY03		FY04										FY05																
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O		
Job: 1250 - Vacuum Vessel Fabrication-GORANSON																																				
121-031	Title III engr (LOE)		577	25AUG04	30NOV06	1,514	234,459.77		EAL=EM =348hr ; ORNLEM =939hr ; 35=\$24k																											
121-038	VV vendor fabricate 3 periods (c/1)		303	25AUG04	01NOV05	159	2,948,437.56		41=\$500k; 4e=\$2,229.34k																											
121-038P	VV vendor fab, test & deliver ports (c/1)		303	25AUG04	01NOV05	283	149,268.24		41=\$144.36k																											
Subtotal				577	25AUG04	30NOV06	1,514	3,332,165.57																												

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																												
								FY03		FY04												FY05													
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	
13 - Conventional Coils																																			
Job: 1301 - Conventional Coils Prel Design-VIOLA																																			
Conventional Coils Preliminary Design																																			
1301-013	Write approve SEML		5	03NOV03*	07NOV03	117	2,584.00	viola=16																											
1301-015	Write & Approve Prelim SOW & Spec		5	03NOV03*	07NOV03	117	3,876.00	viola =24hr ;																											
1301-042	New Lead Details		10	03NOV03*	14NOV03	112	6,428.00	RUSHINSKI =40hr ;																											
1301-044	Trim Coil Layout and leads		15*	05JAN04*	23JAN04	71	26,093.00	MECH DESIGN =80hr ; RUSHINSKI =110hr ;																											
1301-045	FEA, Reports & SDD Summary		14*	05JAN04*	22JAN04	72	19,380.00	viola =120hr ;																											
1301-048	Assemble design, analysis, & drawing documentation		20*	22JAN04*	18FEB04	53	87,044.00	FAN =80hr ; MECH DESIGN =80hr ; RUSHINSKI =150hr ; viola =258hr ;																											
1301-54	Design PF1-3 support system		35	03NOV03*	23DEC03	87	38,568.00	Fan=80; Rushinski=160																											
1301-55	Design Buswork		20	24NOV03*	23DEC03	87	30,557.00	viola=30;; Rushinski=160																											
1301-60	Generate ICD's		10	24NOV03*	09DEC03	97	2,584.00	viola=16																											
1301-65	PDR Prep		5	19FEB04*	25FEB04	53	2,584.00	viola=16																											
1301-67	Conventional Coil PDR		1	26FEB04	26FEB04	53	1,292.00	viola=8																											
163-001	Title I design WBS 152 CS sprt struc		95	02JAN04*	13MAY04	434	51,488.66	ORNLEM=34;ea//em=212;ea/dm=124																											
163-011	Title II design WBS 152 CS sprt struc		95	14MAY04	28SEP04	434	51,488.66	ORNLEM=34;ea//em=212;ea/dm=124																											
Subtotal			225	03NOV03	28SEP04	434	323,967.32																												

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																												
								FY03				FY04												FY05											
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	
Job: 1303 - TF/PF Coil Final design-VIOLA																																			
141-011	Title II design WBS 132 PF coils		99*	27FEB04*	16JUL04	53	161,580.91		EA//DM=732;ea//em=439;ornlem=109																										
131-011	Title II design WBS 131 TF coils		99*	27FEB04*	16JUL04	53	84,094.87		EA//DM=290;ea//em=275;ornlem=73																										
131-012	WBS 13 TF & PF FDR		0		16JUL04	53	0.00																												
131-034	Bid & Award TF Coils		53	19JUL04	30SEP04	138	0.00																												
131-031	Title III engr		481	19JUL04	21JUN06	1,625	129,545.69	EA//EM=666hr; ornlem=62;ea//dm=96																											
Subtotal			580	27FEB04	21JUN06	1,625	375,221.47																												

Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																												
							FY03				FY04												FY05											
							A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	
Job: 1403 - Mod. Coil Final Design-WILLIAMSON																																		
PDR/PBR Prep									Williamson=20																									
1403-04	Plan response to PDR chits	5	01OCT03*	07OCT03	0	2,573.80			Williamson=20																									
1403-05	Prepare FY04 WP / WAF / Checklists	5	08OCT03	14OCT03	0	2,573.80			Williamson=20																									
1403-06	Prepare documents for PDR closeout	20	15OCT03	11NOV03	0	10,295.20			Williamson=80																									
1403-07	Prepare PBR documentation	5	12NOV03	18NOV03	0	2,573.80			Williamson=20																									
1403-08	Performance Baseline Review	0		18NOV03	0	0.00																												
Requirements,Config and Interfaces																																		
1403-10	Review, revise, and approve SRD	5	15OCT03*	21OCT03	218	2,573.80			Williamson=20																									
1403-11	Prepare assembly / interface drawings for ICDs	6	15OCT03*	22OCT03	216	10,295.20			Hargrove,Lovett,=80																									
1403-12	Finalize and approve all ICDs	10	23OCT03	05NOV03	216	5,147.60	Williamson=40																											
1403-13	Finalize winding pack ref xsec, conductor dims	2	15OCT03*	16OCT03	219	2,573.80	Williamson=20																											
1403-14	Revise winding form and windings/asm models	22	15OCT03*	13NOV03	131	41,309.49	Hargrove,Williamson,Lovett=320																											
1403-15	Prepare winding form asm / detail drawings	20	14NOV03	15DEC03	149	41,180.80	Lovett,Hargrove,=320																											
1403-16	Prepare detail drawings for windings and leads	20	16DEC03	16JAN04	149	41,180.80	Lovett,Hargrove,=320																											
1403-17	Prepare detail drawings for clamps&chill plates	20	19JAN04	13FEB04	149	41,180.80	Lovett,Hargrove,=320																											
1403-18	Prepare instrumentation drawings	10	14NOV03	01DEC03	200	20,590.40	Lovett,Hargrove,=160																											
Analysis- Thermal & Electrical																																		
1403-21	Document electrical, insulation parameters	5	15OCT03*	21OCT03	108	2,573.80	Williamson=20																											
1403-22	Update thermal analysis to current WP design	10	22OCT03	04NOV03	148	5,147.60	Williamson=40																											
1403-23	Update thermo-hydraulic analysis of coils	10	05NOV03	18NOV03	148	6,428.00	Dahlgren=40																											
1403-24	Update eddy current analysis of assembly	20	14NOV03	15DEC03	131	10,295.20	Williamson=80																											
1403-25	Check EM loads calculation for ref scenarios	10	22OCT03	04NOV03	108	5,147.60	Williamson=40																											
1403-26	Perform scan of EM fault load conditions	20	05NOV03	04DEC03	108	10,295.20	Williamson=80																											
1403-26.1	Check thermal & electrical calculations	22*	05DEC03*	09JAN04	136	10,295.20	Williamson=80																											
1403-27	Prepare thermal, electrical analysis report	20	16DEC03	16JAN04	131	10,295.20	Williamson=80																											
Analysis -Structural																																		
1403-29	Complete ANSYS model of coil structure asm	20	15OCT03*	11NOV03	113	12,856.00	Fan=80																											
1403-30	Analyze global stress /deflect winding form asm	10	12NOV03	25NOV03	113	6,428.00	Fan=40																											
1403-31	Analyze stress in bolted connections	10	26NOV03	11DEC03	113	6,428.00	Fan=40																											
1403-32	Update MECHANICA model of 3 coil types	20	15OCT03*	11NOV03	113	10,295.20	Freudenberg=80																											

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																																			
								FY03				FY04												FY05																		
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O								
	1403-33	Anlyz wind pack deflect/stress fo thrml, EM lds	10	12NOV03	25NOV03	113	5,147.60			Freudenberg=40																																
	1403-34	Analyze and optimize clamp locations	10	26NOV03	11DEC03	113	5,147.60			Freudenberg=40																																
	1403-35	Update ABAQUS model 3 coil types w/clamp geom	20	15OCT03*	11NOV03	123	10,295.20			Chae=80																																
	1403-36	Analyze clamps&stress due to thrml, EM loading	10	12NOV03	25NOV03	123	5,147.60			Chae=40																																
	1403-37	Prepare ABAQUS model of coil elec leads region	20	15OCT03*	11NOV03	123	10,295.20			Chae=80																																
	1403-38	Analyze stress/deflection in leads	10	12NOV03	25NOV03	123	5,147.60			Chae=40																																
	1403-39	Analyze gravity, equip, seismic loading	10	26NOV03	11DEC03	113	6,428.00			Fan=40																																
	1403-40	Analyze combined loads and fault conditions	10	05DEC03	18DEC03	108	6,428.00			Fan=40																																
	1403-40.1	Check Structural Calculations	37*	19DEC03*	13FEB04	111	10,295.20			Williamson=80																																
	1403-41	Prepare structural analysis report	40	19DEC03	18FEB04	108	20,590.40			Williamson=160																																
	Winding Form FDR Prep										Williamson,Lovett,Hargrove=80																															
	1403-43	Incorporate changes due to prototype fabr	4	16FEB04*	19FEB04	93	10,423.89			Jones,Lovett,Hargrove=640																																
	1403-44	Prepare final drawings for winding forms, asm	53	20FEB04	04MAY04	93	82,232.91			Jones,Williamson,Cole,Lovett,Hargrove=320																																
	1403-45	Check and promote models / drawings	11	05MAY04	19MAY04	93	41,180.80			Williamson=120																																
	1403-46	Update build-to specification / SOW	30	16FEB04*	26MAR04	111	15,442.80			Williamson=120																																
	1403-47	Prepare failure modes assessment (FMECA)	30	16FEB04*	26MAR04	111	15,442.80			Williamson=120																																
	1403-48	Update design basis document	30	19FEB04*	31MAR04	108	15,442.80			Williamson=120																																
	1403-49	Update cost / schedule estimates	30	16FEB04*	26MAR04	111	15,442.80			Williamson=40																																
	1403-49.1	Process ECP for all changes	33*	16FEB04*	31MAR04	108	5,147.60			Williamson=80																																
	1403-50	Prepare FDR documentation / presentations	20	01APR04*	28APR04	108	10,295.20			Williamson=80																																
	1403-51	Final Design Review	0		19MAY04	93	0.00		▼																																	
	C-081.1	JOULE MILESTONE #4 - CD-3 Readiness	0		16JUL04	53	0.00		▼												JOULE MILESTONE #4 CD-3 Readiness: complete preparations for CD-3 determination. 4th QUARTER FY04 (FDR's for WBS 12, 13 & 14 Completed)																					
	Post FDR Update,Planning										Williamson=120																															
	1403-53	Resolve FDR comments and recommendations	15	20MAY04	10JUN04	95	15,442.80			Williamson,Lovett,Hargrove,Cole,Jones=160																																
	1403-54	Rev/approve specs,models,dwgs for construction	13	14JUN04	30JUN04	94	20,590.40			▼																																
	C-071	Project eval cost proposals & select vendor	20	30JUL04	26AUG04	94	0.00			▼																																
	C-081	Castings-Award Mfg contract (phase funded)	0	27AUG04*		94	0.00			▼																																
	C-082	Castings-Release f/ engr/tooling&fabrication	0	27AUG04		94	0.00		▼																																	

JOULE MILESTONE #4
CD-3 Readiness: complete preparations
for CD-3 determination.
4th QUARTER FY04
(FDR's for WBS 12, 13 & 14 Completed)

Run Date 31OCT03 15:04

 current schedule
 Progress Bar
 Critical Activity

PDRC

NCSX
FY04 WAF

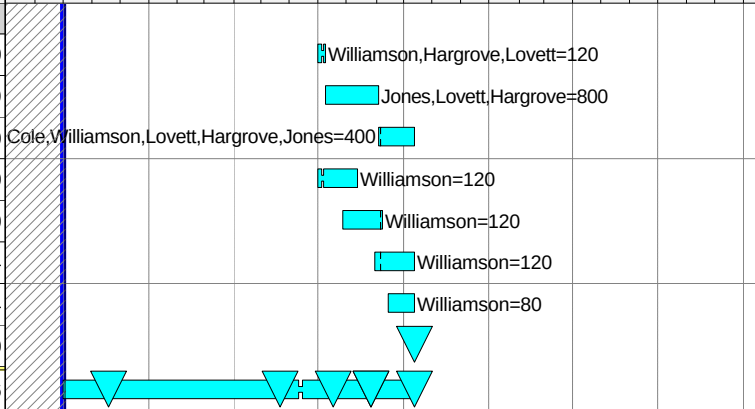
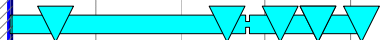
Sheet 9 of 47

Approvals:

Job Mgr: _____ Date: _____

WBS Mgr: _____ Date: _____

Management: _____ Date: _____

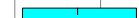
	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																													
								FY03		FY04										FY05																
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O		
	Windings and Assembly Design																																			
	1403-56	Inc changes due to racetrack testing	6	30JUN04*	08JUL04	155	15,442.80		Williamson,Hargrove,Lovett=120																											
	1403-57	Prep final dwgs windings, leads,c plates,clamps	40	09JUL04	02SEP04	155	103,080.69		Jones,Lovett,Hargrove=800																											
	1403-58	Check and promote models / drawings	26	03SEP04	11OCT04	155	52,787.70		Cole,Williamson,Lovett,Hargrove,Jones=400																											
	1403-59	Update build-to specifications	30	30JUN04*	11AUG04	197	15,442.80		Williamson=120																											
	1403-60	Update design basis document	30	27JUL04*	07SEP04	179	15,442.80		Williamson=120																											
	1403-61	Update cost / schedule estimates	30	30AUG04*	11OCT04	155	15,783.84		Williamson=120																											
	1403-62	Prepare FDR documentation / presentations	20	14SEP04*	11OCT04	155	10,636.24		Williamson=80																											
	1403-63	Final Design Review	0		11OCT04	155	0.00																													
Subtotal			260	01OCT03	11OCT04	155	881,158.36																													

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																												
								FY03				FY04												FY05											
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	
	1404-90	Final inspection	10	03JUN04	16JUN04	94	8,884.20																						4e=\$ 8.71 k <encumbered FY03>						
	1404-91	Ship to PPPL	5	17JUN04	23JUN04	94	3,182.40																						4e=\$ 3.12 k <encumbered FY03>						
	1404-91.1	JPP-Deliver Prototype	0		23JUN04	94	0.00																												
	1404-93	Final MIT/QA plan	30	17JUN04	29JUL04	94	8,333.40																						4e= 8.17 R367405						
	1404-94	Fixed price proposal	30	17JUN04	29JUL04	94	12,393.00																						4e= 12.15 R367405						
	Subtotal		209	01OCT03	29JUL04	2,109	1,107,763.26																												

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																												
								FY03				FY04												FY05											
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	
	1406-018	Mold & VPI twisted racetrack	15	08MAR04	26MAR04	204	18,432.00										em//tb=240 hrs																		
	1406-019	Setup coil in test stand	2	29MAR04	30MAR04	204	10,224.80										em//tb=48; ee//tb=32; ee//sm=4																		
	1406-021	Perform tests	5	31MAR04	06APR04	204	30,853.60										em//tb=128; ee//tb=56; Hatcher=40; Gettelfinger=40; Gernhardt=40																		
	1406-023	Section and Evaluate coil turns	5	07APR04	13APR04	204	0.00																												
	Conductor Property Testing																																		
	1406-029	Fab New Specimen Molds	35	03NOV03*	19DEC03	137	22,992.00						Machinist=160; em//tb=80																						
	1406-030	Fab & Pot samples	30	02JAN04*	12FEB04	127	36,864.00						em//tb= 480																						
	1406-031	Prep fixtures and test equipt	36	03NOV03*	02JAN04	135	69,234.00						Kozub=160; Jurzynski=160 Machinist=240; 41=\$ 1 k																						
	1406-032	Test samples	31	19JAN04*	01MAR04	125	64,032.00						Kozub=240; Jurzynski=240																						
	1406-033	Prepare Test report	15	23FEB04*	12MAR04	121	12,856.00						Zatz=80																						
Subtotal			134	01OCT03	13APR04	2,184	583,702.80																												

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Job: 1407 -MC Winding Facilities-CHRZANOWSKI																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

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							FY03		FY04												FY05														
							A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O		
Job:1408-MC Supplies&Prototype Winding-CHRZANOWS																																			
Materials , Supplies, Machining																																			
1408-101	Insulation-Spec & Requisition	10	03FEB04	16FEB04	128	0.00																													
1408-103	Insulation-Bid & Award	30	17FEB04	29MAR04	128	0.00																													
1408-105	Insulation-Delivery for Prototype	50	30MAR04	08JUN04	128	3,822.00		M&S= \$3 k																											
1408-107	Insulation-Delivery for Production	50	20JUL04*	28SEP04	132	82,810.00		M&S= \$ 65 k																											
1408-111	Epoxy -Spec & Requisition	10	13APR04	26APR04	128	0.00																													
1408-113	Epoxy -Bid & Award	30	27APR04	08JUN04	128	0.00																													
1408-115	Epoxy -Delivery for Prototype	20	09JUN04	07JUL04	128	6,370.00		M&S= \$ 5 k																											
1408-117	Epoxy -1st Delivery for Production	20	15NOV04	14DEC04	99	19,380.00		M&S= \$ 15 k																											
1408-119	Epoxy -2nd Delivery for Production	20	10FEB05	09MAR05	115	19,380.00		M&S= \$ 15 k																											
1408-121	Epoxy -3rd Delivery for Production	20	27APR05	24MAY05	117	19,380.00		M&S= \$ 15 k																											
1408-123	Epoxy -4th Delivery for Production	20	12JUL05	08AUG05	125	19,380.00		M&S= \$ 15 k																											
1408-125	Epoxy -5th Delivery for Production	20	22SEP05	19OCT05	128	19,575.00		M&S= \$ 15 k																											
1408-127	Epoxy -6th Delivery for Production	20	12DEC05	10JAN06	129	19,575.00																													
1408-131	Chill plates & clamps -Spec & Requisition	10	16MAR04	29MAR04	128	0.00																													
1408-133	Chill plates & clamps -Bid & Award	30	30MAR04	10MAY04	128	0.00																													
1408-135	Chill plates & clamps -Delivery for Prototype	40	11MAY04	07JUL04	128	15,288.00		M&S= \$ 12 k																											
1408-137	Chill plates & clamps -Delivery for Production	40	18OCT04	14DEC04	99	279,072.00		M&S= \$ 216 k																											
1408-141	Copper Conductor -Spec & Requisition	10	02MAR04	15MAR04	128	0.00																													
1408-143	Copper Conductor -Bid & Award	30	16MAR04	26APR04	128	0.00																													
1408-145	Copper Conductor -Delivery for Prototype	50	27APR04	07JUL04	128	15,288.00		M&S= \$ 12 k																											
1408-147	Copper Conductor -Delivery for Production	50	04OCT04	14DEC04	99	310,080.00		M&S= \$ 240 k																											
1408-151	G-11 Filler Fabrication (prototype)	25	29DEC03	03FEB04	99	16,437.20		M&S= \$ 1 k machinist=144																											
1408-153	G-11 Filler Fabrication (production)	220	04FEB04	14DEC04	99	337,158.95		M&S= \$15 k machinist=3000																											
1408-161	Lead hardware Fabrication (prototype)	15	14JAN04	03FEB04	99	9,698.00		M&S= \$ 1 k Machinist=80																											
1408-163	Lead hardware Fabrication (production)	220	04FEB04	14DEC04	99	175,640.56		M&S= \$ 18 k Machinist=1440																											
1408-171	Misc supplies/matl's for Prototype	50	27APR04	07JUL04	128	5,096.00		M&S= \$ 4 k																											
1408-173	Misc supplies/matl's for Production Windings	50	04OCT04	14DEC04	99	32,300.00	M&S= \$ 25 k																												

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																												
								FY03			FY04												FY05												
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	
	1408-181	VPI Supplies for Prototype(mold epoxy,& hardware	50	27APR04	07JUL04	128	10,213.60		M&S= \$4.4 k em//tb=60																										
	1408-183	VPI Supplies -Epoxy & tape for Production	50	04OCT04	14DEC04	99	46,512.00		 M&S= \$ 36 k																										
	1408-185	VPI Supplies -Valves & Tubing	50	04OCT04	14DEC04	99	51,680.00		 M&S= \$ 40 k																										
	Prototype Winding																																		
	141-3-44	Oversight and materials/supplies	186	27FEB04	17NOV04	123	131,068.12		 Chrzanowski= 472; Meighan =518																										
	141-3-45	Wind & VPI prototype coil (stations 1 thru 5)	87	08JUL04*	08NOV04	123	183,479.17		 FOM TECHS TB=2368hr ;																										
	141-3-46	Test prototype coil (station 6)	7	09NOV04	17NOV04	123	28,850.00		 em//tb=176;ee//tb=72;ee//sm=20 ee//em=16; em//em=28																										
	141-3-45.1	Complete Prototype Winding (SOW 4.9)	0		17NOV04*	123	0.00																												
	141-3-45.2	Final Procedures & Process Plan (SOW 4.10)	30	07OCT04	17NOV04	123	0.00																												
	Subtotal			517	29DEC03	10JAN06	129		1,857,533.60																										

Run Date 31OCT03 15:04

 current schedule
 Progress Bar
 Critical Activity

PDRC

NCSX
FY04 WAF

Sheet 17 of 47

Approvals:

Job Mgr: _____ Date: _____

WBS Mgr: _____ Date: _____

Management: _____ Date: _____

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																												
								FY03		FY04										FY05															
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	
Job: 1409 - Mod. Coil Test Stand-GETTELFINGER																																			
Test Stand (Gettelfinger)																																			
1409-025	Design Test Stand	30	03NOV03*	16DEC03	230	25,248.00	Jones=240																												
1409-026	Install Electrical	30	17DEC03	05FEB04	230	67,776.80	41=\$ 53.2 k (Powers Elec)																												
1409-027	Cryo Line Installation	30	17DEC03	05FEB04	230	16,726.00	em/tb=80; Delany=40; 41=\$ 5 k																												
1409-028	System Testing	10	06FEB04	19FEB04	230	0.00																													
1409-029	Oversight/Supervision	70*	03NOV03	19FEB04	230	51,616.00	gernhardt=120;Mcbride=120; Gettelfinger=160																												
Subtotal		70	03NOV03	19FEB04	230	161,366.80																													

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																												
								FY03		FY04										FY05															
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	
	Structrues Final Design																																		
	1501-205	Structures FDR (summary task)	126*	01APR04	28SEP04	212	67,904.80		ea/dm=120; Heitzenroeder=344																										
	1501-209	Prepare final drawings	42	01APR04*	28MAY04	212	0.00																												
	1501-213	Check & promote models / drawings	22	01JUN04	30JUN04	212	0.00																												
	1501-217	Update build to spec / sow	20	01JUL04	29JUL04	212	0.00																												
	1501-221	Prepare Failure Modes Assessment (FMECA)	20	16JUL04	12AUG04	212	0.00																												
	1501-225	Update design basis document	20	30JUL04	26AUG04	212	0.00																												
	1501-229	Update cost & schedule estimates	32	13AUG04	28SEP04	212	0.00																												
	1501-233	Prepare FDR documentation / presentations	32	13AUG04	28SEP04	212	0.00																												
	1501-237	Prepare ECP for FDR	32	13AUG04	28SEP04	212	0.00																												
	1501-241	Hold FDR	0		28SEP04	212	0.00																												
	Subtotal		251	01OCT03	28SEP04	212	251,607.80																												

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																													
								FY03		FY04										FY05																
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O		
19 - Stellarator Core Management and Integration																																				
Job: 1901 - Stellarator Core Mngtt&Integr-NELSON																																				
Stellarator Core management																																				
0191-4	LOE-FY04 WBS 191-4 Management Activities		250*	01OCT03*	30SEP04	2,053	145,699.85																		NELSON=1065 ;35= 5 k											
192-4	LOE-FY05 WBS 192-4 Design Integration Activities		250*	01OCT03*	30SEP04	2,053	310,840.08																		Brown=240; Cole=1184; Travel=\$ 2.5 k Jones (ornl)=656; ORNL software=\$29.95											
192-5	LOE-FY05 WBS 192-5 VV & Coil Services Integr		186*	01OCT03*	30JUN04	2,117	86,856.00																		Brown=60; Cole=240; Jones (ornl)=360;											
192-6	LOE-FY05 WBS 192-6 Integrated Analysis		250*	01OCT03*	30SEP04	2,053	186,412.00																	Zatz=240; Brooks=920												
Subtotal			250	01OCT03	30SEP04	2,053	729,807.93																													

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																													
								FY03		FY04										FY05																
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O		
25 - Neutral Beam Injection System																																				
Job: 2501 - Neutral Beam Refurbishment-STEVENSON																																				
FY04 Work Plan																																				
2501-015	Design & Work Planning	192*	02JAN04*	30SEP04	2,053	5,425.20	Stevenson=36																													
2501-020	Layout & Routing	192*	02JAN04*	30SEP04	2,053	7,732.80	Carson=72																													
2501-025	Systems Interfaces	192*	02JAN04*	30SEP04	2,053	7,732.80	Carson=72																													
2501-030	Power System Local testing	65*	01MAR04*	28MAY04	2,139	15,805.45	Carson=80; Gibilisco=40 Halvorsen=16; 41=\$ 1 k; 37 = \$.25 k																													
Subtotal			192	02JAN04	30SEP04	2,053	36,696.25																													

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																													
								FY03		FY04										FY05																
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O		
39 - Diagnostics Integration																																				
Job: 3901 - Diagnostics sys Integration-JOHNSON																																				
390-010	LOE Support FY04		250*	01OCT03*	30SEP04	2,053	78,023.50		Stratton =208hr ; Johnson=208																											
Subtotal			250	01OCT03	30SEP04	2,053	78,023.50																													

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																													
								FY03		FY04										FY05																
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O		
41 - AC Power																																				
Job: 4101 - AC Power-RAMAKRISHNAN																																				
411 - Auxliary AC Power Systems																																				
411-1-2	Ex-Test Cell AC Power Dist-Dsn	239	01APR04*	17MAR05	317	24,997.67																														
411-1-4	Ex-Test Cell AC Power Dist-Procure	502	01JUL04*	06JUL06	230	11,651.40																														
411-2-2	Grounding-Dsn	225	01APR04*	25FEB05	200	29,232.89																														
411-3-2	Test Cell AC Power Distr-Dsn	260	08APR04*	22APR05	138	67,157.32																														
Subtotal		566	01APR04	06JUL06	230	133,039.28																														

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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43 - DC Systems																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																													
							FY03		FY04												FY05														
							A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O		
45 - Power System Design and Integration																																			
Job: 4501 - Power Sys Dsn & Integr-RAMAKRISHNAN																																			
451 - System Design & Interfaces																																			
451-1-2	Calculations-Dsn	630	26MAR04*	29SEP06	1,555	50,481.19																													
451-2-2	PDR Power system -Dsn	45	09FEB04*	09APR04	2,109	10,236.00		EA//DM =40hr ; EE//EM =40hr ;																											
451-3-2	Drawings,changes,asbuilts -Elect Dsn Integration	855*	02JAN04*	31MAY07	1,390	342,501.50																													
451-6-2	FDR C-Site -Dsn	45	03MAY04*	06JUL04	2,114	20,472.00		EA//DM =80hr ; EE//EM =80hr ;																											
451-7-2	FDR DC transmission-Dsn	45	03MAY04*	06JUL04	532	10,236.00		EA//DM =40hr ; EE//EM =40hr ;																											
451-8-2	FDR D-Site -Dsn	45	23JAN04*	25MAR04	2,185	20,472.00		EA//DM =80hr ; EE//EM =80hr ;																											
452 - Electrical System Support																																			
452-1-2	Diagnostics AC Power Distr-Dsn	318	01APR04*	08JUL05	189	16,138.74	EA//DM =																												
452-1-4	Diagnostics AC Power Distr-Procure	563	01JUL04*	02OCT06	129	1,295.81	41=01\$k ;																												
452-2-2	Diagnostics sensor cabling-Dsn	314	01APR04*	01JUL05	193	23,234.37	EA//DM =1																												
452-2-4	Diagnostics sensor cabling-Procure	461	01JUL04*	08MAY06	231	2,587.35	41=02\$k ;																												
Subtotal		855	02JAN04	31MAY07	1,390	497,654.96																													

Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																												
							FY03			FY04												FY05												
							A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	
46 - FCPC Building Modifications																																		
Job: 4601 - FCPC Bldg Mods-RAMAKRISHNAN																																		
460-1-2	Clear area in West wing)-Dsn	65	02JAN04*	01APR04	2,180	16,377.60		EA//DM =64hr ; EE//EM =64hr ;																										
460-1-4	Clear area in West wing -Procure	65	02JAN04*	01APR04	2,180	1,274.00		41=01\$k ;																										
460-1-6	Clear area in West wing)-Install	65	02JAN04*	01APR04	2,180	11,396.80		EE//EM =16hr ; EE//SM =16hr ; EE//TB =96hr ;																										
460-2-4	Clear the small Vacuum prep lab -Procure	65	02JAN04*	01APR04	2,115	637.00		41=01\$k ;																										
460-2-6	Clear the small Vacuum prep lab -Install	65	02APR04	02JUL04	2,115	12,112.00		EE//TB =160hr ;																										
460-3-2	Floor & Wall Penetrations-Dsn	65	15APR04*	16JUL04	431	2,888.80		EA//DM =16hr ; EE//EM =08hr ;																										
460-3-4	Floor & Wall Penetrations-Procure	65	19JUL04	18OCT04	431	11,495.91		41=09\$k ;																										
Subtotal		204	02JAN04	18OCT04	2,041	56,182.11																												

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																													
								FY03		FY04										FY05																
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O		
51 - TCP/IP Infrastructure Systems																																				
Job: 5801 -Central I&C Integr & Oversight-OLIARO																																				
51-01	FY04 LOE support		250*	01OCT03*	30SEP04	2,053	12,504.40																						EC//EM		=86hr					
Subtotal			250	01OCT03	30SEP04	2,053	12,504.40																													

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																													
								FY03		FY04										FY05																
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O		
65 - Facility Systems Integration																																				
Job: 6163 - Facility Systems FY03 support																																				
65-03	LOE WBS 6		250*	01OCT03*	30SEP04	2,053	12,920.00		em//em=80																											
Subtotal			250	01OCT03	30SEP04	2,053	12,920.00																													

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																												
								FY03				FY04												FY05											
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	
72 - Control Room Refurbishment																																			
Job: 7201 - Control Room Walls/Floors-PERRY																																			
710.001	Block Wall east side control room		41	01JUN04*	28JUL04	2,078	39,512.00																						ee//tb=200; 41=\$8k						
711B.050	Complete Control Room Flooring		20	29JUL04	25AUG04	2,078	8,107.20																						ee//sm Edwards= 24 hrs; em//tb NB techs 72 h						
Subtotal			61	01JUN04	25AUG04	2,078	47,619.20																												

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																												
								FY03		FY04										FY05															
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	
73 - Platform Design & Fabrication																																			
Job: 7301 - Platform Design&Fab-PERRY																																			
712.008	Update Platform Specification		20	05JAN04*	30JAN04	468	6,460.00																												
712.009	Platform PDR		0		30JAN04*	468	0.00																												
711A.040	Platform nut plates		63*	02JUL04*	30SEP04	2,053	27,648.00																												
712.010	Final Design		64*	01JUL04*	30SEP04	367	54,170.00																												
Subtotal			191	05JAN04	30SEP04	2,065	88,278.00																												

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																													
								FY03		FY04										FY05																
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O		
	GPP007.1	GPP-C-Site elevators Install	64	01APR04	30JUN04	537	0.00																													
	GPP008	GPP-Fire suppression high bay design	64	01APR04*	30JUN04	473	0.00																													
	GPP008.1	GPP-Fire suppression high bay install	64	01JUL04	30SEP04	473	0.00																													
	GPP009	Control Room Lights & Outlets design	121*	01OCT04*	31MAR05	372	0.00																													
	GPP009.1	Control Room Lights & Outlets install	64	01APR05	30JUN05	372	0.00																													
	GPP010	Control Room HVAC Design	121*	01OCT04*	31MAR05	372	0.00																													
	GPP010.1	Control Room HVAC Install	64	01APR05	30JUN05	372	0.00																													
	GPP011	Control Room Ceiling Design	64	01APR05*	30JUN05	372	0.00																													
	GPP011.1	Control Room Ceiling Install	64	01JUL05	30SEP05	372	0.00																													
	GPP012	Control Rm Fire Detection & Suppression Design	121*	01OCT04*	31MAR05	372	0.00																													
	GPP012.1	Control RmFire Detection & Suppression Install	64	01APR05	30JUN05	372	0.00																													
Subtotal			1,133	01OCT02A	12MAR07	1,444	281,390.58																													

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																												
								FY03		FY04										FY05															
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	
81 - Project Management and Control																																			
Job: 8101 - Project Management & Control-NEILSON																																			
810.002	Project Management Office PPPL FY04		253*	01OCT03*	30SEP04	2,065	696,798.82	Neilson=1467; Schmidt=884; 41=06\$K; 35-Strykowski =884hr ; Hampron =624hr 41=\$ 16.2 k R400432 (pdr support)																											
810.010	CD-3 Readiness - Update Assy & Installation plan		65	01APR04*	01JUL04	63	0.00																												
810.015	CD-3 Readiness - Update resource loaded schedule		65	01APR04*	01JUL04	63	0.00																												
810.020	CD-3 Readiness - Update risk management plan		65	01APR04*	01JUL04	63	0.00																												
810.025	CD-3 Readiness - Update Value mgt/engr doc.		65	01APR04*	01JUL04	63	0.00																												
810.028	CD-3 Readiness - Update Project Controls doc.		65	01APR04*	01JUL04	63	0.00																												
810.030	CD-3 Readiness - Update Acquisition Strategy		65	01APR04*	01JUL04	63	0.00																												
810.035	CD-3 Readiness - Update Proj Exec Plan (PEP)		65	01APR04*	01JUL04	63	0.00																												
810.040	CD-3 Readiness - Assess/Update Integr Proj Team		65	01APR04*	01JUL04	63	0.00																												
Subtotal			253	01OCT03	30SEP04	2,065	696,798.82																												

Neilson=1467; Schmidt=884; 41=06\$; 35=
Strykowski =884hr ; Hampron =624hr
41=\$ 16.2 k R400432 (pdr support)

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																													
								FY03		FY04										FY05																
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O		
Job: 8102 - NCSX MIE Management ORNL-LYON																			ORNLRM =358hr; Akers=178; Benson=178; ORNL41 =03\$; ORNL35 =04\$;																	
810.102	Project Management Office ORNL FY04		253*	01OCT03*	30SEP04	2,065	120,228.22																													
Subtotal			253	01OCT03	30SEP04	2,065	120,228.22																													

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																												
								FY03		FY04												FY05													
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	
82 - Project Engineering																																			
Job: 8202 - Engr Mgmt & Sys Eng Support-REIERSEN																																			
	820.002	LOE FY04	253*	01OCT03*	30SEP04	2,065	626,751.30																												
	Subtotal		253	01OCT03	30SEP04	2,065	626,751.30																												

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																																
								FY03		FY04												FY05																	
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O					
Job: 8204 - Systems Analysis-BROOKS																																							
820.174	LOE FY04	253*	01OCT03*	30SEP04	2,065	208,106.50																						Brooks=1295											
Subtotal		253	01OCT03	30SEP04	2,065	208,106.50																																	

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																												
								FY03		FY04										FY05															
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	
84 - Project Physics																																			
Job: 8401 - Project Physcis-ZARNSTORFF																																			
840.202	Project Physics/Engr Analysis FY04		253*	01OCT03*	30SEP04	2,065	99,806.20		Zarnstorff=636 41=3\$;35=01\$																										
Subtotal			253	01OCT03	30SEP04	2,065	99,806.20																												

	Activity ID	Activity Description	Orig Dur	Forecast Start	Forecast Finish	Total Float	CD-2 Baseline Budget without cont																													
								FY03		FY04										FY05																
								A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O		
PPPL Allocations																																				
Job: 8998 - Allocations																																				
99.04	PPPL Allocations FY04		253*	01OCT03*	30SEP04	2,065	213,877.30		54=123.7																											
Subtotal			253	01OCT03	30SEP04	2,065	213,877.30																													

