NATIONAL COMPACT STELLARATOR PROJECT
Engineering Change Proposal (ECP)

COVER PAGE
(TO BE COMPLETED BY SYSTEMS ENGINEERING SUPPORT MANAGER)

Originator: Ron Strykowsky	**Date: October 25, 2005**
ECP No: 039	**ECP Title: Performance Measurement Baseline (PMB) Update – October 2005**

Required Reviewers

Required Reviewers for this ECP:
Paul Goranson, Brad Nelson, Dave Williamson, Mike Cole, Wayne Reiersen, H. Neilson, Judy Malsbury, Frank Malinowski, Jerry Levine, Ron Strykowsky

ECP Approval Level

Expedited ECP? ☐ **Yes** ☒ **No**
Change Level: 2 Federal Project Director
Approving Official: 2 Federal Project Director

Actions

(1) **Update PMB by October 31st.**
(2) **Revise GRD by November 22nd.**

APPROVALS
(TO BE COMPLETED BY APPROVING OFFICIALS)

Change Level	Approving Official	Approval?	Signature
3	NCSX Project Manager	☒ Yes ☐ No	Hutch Neilson Digitally signed by Hutch Neilson DN: CN = Hutch Neilson, C = US, O = PPPL Date: 2005.11.01 10:10:35 -04'00'
3a (Expedited ECP)	NCSX Engineering Manager	☐ Yes ☐ No	
2	NCSX Federal Project Director	☒ Yes ☐ No	
1	Associate Director OFES	☐ Yes ☐ No	
0	Deputy Secretary of Energy	☐ Yes ☐ No	

NATIONAL COMPACT STELLARATOR PROJECT
Engineering Change Proposal (ECP)
ECP-039

PART I
(TO BE COMPLETED BY ORIGINATOR)

Originator: Ron Strykowsky	**Date: October 25, 2005**

Overview of Change

Type of ECP: ☐ **EXPEDITED** ☒ **STANDARD**

Type of Change: ☒ **TECHNICAL** ☒ **COST** ☒ **SCHEDULE** ☐ **EDITORIAL**

Description and Reasons for Change:

Summary: Approval of this ECP will require a drawdown of contingency of $2,357K from $11,969K in ECP-036 to $9,612K (~21.6% of remaining work scope). This ECP is a combination of estimate growth based on completed work, replanned work, and retirement of unrecoverable cost variances (work activity completed). This ECP does not cover the total estimate growth in the modular and TF coil winding operations, but provides budget to fully cover estimated costs through the third quarter and fourth quarter, respectively, of FY-06. At that time, the need for additional contingency to cover completion of those operations will be re-evaluated based on actual costs to date and reductions resulting from the project's process improvement efforts. This ECP does not impact Level 1 milestones but one non-critical Level 2 milestone is re-scheduled. The breakdown of proposed changes is as follows:

(1) Proposed PMB Updates (+$764K)
- **a. WBS 12 – Vacuum Vessel (+$106K)**
  - **i. WBS 121 – Vacuum Vessel Final Design (+$204K) – redesign of insulation scheme and cooling tubes.**
  - **ii. WBS 122 and 123 – VV Non-VVSA Procurements (-$98K) – less expensive tubes and insulation due to redesign.**
- **b. WBS 13 – Conventional Coils (-$188K)**
  - **i. WBS 131 - TF Coil Fabrication (+$432K) – replanned effort for facility, material, and winding operations.**
  - **ii. WBS 132 – PF Coil Design & Fabrication (-$466K) – revised plan to use existing NSTX PF1a coil for central solenoid, instead of new coils.**
  - **iii. WBS 133 – Trim Coils Design and Fabrication (-$154K) – simplified design of trim coils.**
- **c. WBS 14 – Modular Coils (+$1,227K)**
  - **i. WBS 142 – Modular Coils Type A & B Final Design (+$520K) – replanned effort to reflect Type C experiences.**
  - **ii. WBS 142 – Modular Coil Winding (-$17K) – increased effort for ground wrap, interlacing, and shift differential offset by supervision and oversight effort reduction due to shortened schedule.**
  - **iii. WBS 142 – Mod Coil Winding Supplies (+$655K) – revised estimate to reflect experiences gained in the procurement of Type C1 shims and high strength bolts .**
  - **iv. WBS 142 – Modular Coil Final Design (+$69K) – revised estimate of oversight (Title III) of contract based on experience gained on C1 casting.**

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Overview of Change

d. **WBS 18 – Field Period Assembly (-$90K)**
   i. **WBS 183 – Field Period Assembly (-$40K) – eliminated requirement to bakeout field period assembly to 350°C.**
   ii. **WBS 183 – Field Period Assembly Tooling & Constructability (-$50K) – re-planning eliminated need for second set of assembly fixtures.**
e. **WBS 3 – Diagnostics (-$42K)**
   i. **WBS 31 – Magnetic Diagnostics (+$62K) – Redesign of saddle loops and termination box.**
   ii. **WBS 38 – E-Beam Mapping (-$104) – simplified application of e-beam mapping scheme.**
f. **WBS 5 – Plasma Control Systems (-$100K) – simplified plasma control system design.**
g. **WBS 81 – Project Management (-$54K) – re-planned FY2006-09 effort to match project needs.**
h. **WBS 82 – Dimensional Control (+$84K) – dimensional control planning for assembly operations.**
i. **Various WBS Elements – Rescheduling and Rate Changes (-$180K)**

(2) Unrecoverable Cost Variances – tasks completed (+$1,593K)

a. **WBS 13 – Conventional Coils (+$246K)**
   i. **WBS 131 – TF Design (+$97K) – unanticipated iterations on the TF design.**
   ii. **WBS 131 – TF Coil fabrication Preparations (+$149K) – unanticipated additional effort to finalize the design, increased material costs, and additional effort to debug electrical system.**
b. **WBS 14 – Modular Coils (+1,044K)**
   i. **WBS 142 – Modular Coil Final Design (+$409K) – increased effort on the MCWF C Final Design to reflect experiences gained in the Twisted Racetrack Coil winding.**
   ii. **WBS 144 – Completion of Coil Test Facility (+$150K) – additional efforts required to debug cryogenic systems and to incorporate design safeguards into the facility.**
   iii. **WBS 141 – Fabrication of First Casting as Part of R&D Contract (+$137K) – additional costs associated with the fabrication of the first production casting.**
   iv. **WBS 142 – Modular Coil Final Design (+$110K) – additional Title III efforts to work with vendor to address technical requirements and schedule.**
   v. **Other Miscellaneous (+$23.8K) – TRC winding prep, etc.**
c. **WBS 17 – Cryostat & Base Support Structure Design (+$178K) – underestimate of design and engineering effort needed.**
d. **WBS 4 –Power Systems (+$68K) – revised estimate for the design effort.**
e. **WBS 7 - Test Cell Preparations (+$129K) – additional efforts to restore/refurbish house power to ensure its availability for the NCSX test cell.**
f. **Various WBS Elements – unrecoverable cost variances for work now completed (-$72K)**

(3) Level 2 Milestone, "Vacuum Vessel Sectors Delivered" re-scheduled from May, 2006 to Sept. 2006. Leaves ample free float (at least 6 months) and better matches project needs.

NATIONAL COMPACT STELLARATOR PROJECT
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ECP-039

PART I
(TO BE COMPLETED BY ORIGINATOR)

Originator: Ron Strykowsky | **Date: October 25, 2005**

Detailed Description of the Change:
(Use Continuation Sheets and/or Attach Information/Sketches, As Needed)

Assessment of Other Options: None. No other offsets identified at this time.

List Attachments, Impacted Documents, etc.
1. **Budget Reconciliation Sheet**
2. **Revised Cost and Schedule Bar Charts for October 2005**

Summary of Cost Impacts:

WBS Element	Previous Baseline (ECP-036) ($)	Current Baseline (ECP-039) ($)	Change ($)
12 – Vacuum Vessel	$9,400K	$9,439K	+$39K
13 – Conventional Coils	$4,790K	$4,831K	+$41K
14 – Modular Coils	$29,114K	$31,356K	+$2,242K
15 - Structures	$1,413K	$1,386K	-$27K
16 – Coil Services	$1,140K	$1,135K	-$5K
17 – Cryostat & Base Suppt Structure	$1,361K	$1,533K	+$172K
18 – Field Period Assembly	$5,430K	$5,281K	-$149K
19 – Stellarator Core Mgmt & Integration	$2,738K	$2,767K	+$29K
Subtotal WBS 1 – Stellarator Core	*$55,385K*	*$55,728K*	*+$2,343K*
WBS 2 – Auxiliary Systems	*$783K*	*$791K*	*+$8K*
WBS 3 – Diagnostic Systems	*$1,143K*	*$1,149K*	*+$6K*
WBS 4 – Electrical Power Systems	*$3,301K*	*$3,305K*	*+$4K*
WBS 5 – I&C Systems	*$2,050K*	*$1,874K*	*-$176K*
WBS 6 – Facility Systems	*$691K*	*$679K*	*-$13K*
WBS 7 Test Cell Prep & Machine Assembly	*$4,473K*	*$4,555K*	*+$182K*
WBS 8 – Project Oversight & Support	*$11,053K*	*$11,025K*	*-$28K*
Subtotal	*$78,779K*	*$78,779K*	*+$797K*
PPPL Allocations	*$1,577K*	*$1,608K*	*+$32K*
Contingency	*$11,969K*	*$9,612K*	*-$2,357K*
DCMA	*75k*	*75k*	-
TOTALS	*$92,401K*	*$92,401K*	-

Remaining contingency ($9,612K) is ~ 21.6% of remaining work.

One Level 2 Milestone, "Vacuum Vessel Sectors Delivered" re-scheduled from May, 2006 to Sept. 2006. Leaves ample free float (at least 6 months) and better matches project needs.

Budget Reconciliation Detail

	Current Baseline (ECP-036) ($K)	Unrecoverable Cost Variances ($K)	ETC Updates & Design Changes ($K)	Total Budget Change ($K)	Proposed PMB (ECP-039) ($K)
1 Stellarator Core Systems	**55,386**	**1,385**	**957**	**2,342**	**57,728**
12 - Vacuum Vessel Systems	**9,400**	**(68)**	**107**	**39**	**9,439**
13 - Conventional Coils	**4,790**	**246**	**(205)**	**41**	**4,831**
14 - Modular Coils	**29,114**	**1,044**	**1,198**	**2,242**	**31,356**
15 - Structures	**1,413**	**(1)**	**(26)**	**(27)**	**1,386**
16 - Coil Services	**1,140**		**(5)**	**(5)**	**1,135**
17 - Cryostat and Base Support Struct	**1,361**	**178**	**(6)**	**172**	**1,533**
18 - Field Period Assembly	**5,430**	**(23)**	**(126)**	**(149)**	**5,281**
19 - Stellarator Core Mgt & Integr	**2,738**	**9**	**20**	**29**	**2,767**
2 Heating, Fueling & Vac Sys	**783**		**8**	**8**	**791**
3 Diagnostics	**1,143**	**18**	**(12)**	**6**	**1,149**
4 Electrical Power Sys	**3,301**	**68**	**(64)**	**4**	**3,305**
5 Central I&C Sys	**2,050**	**(7)**	**(169)**	**(176)**	**1,874**
6 Facility Sys	**691**		**(13)**	**(13)**	**678**
7 Test Cell Prep & MachAssy	**4,373**	**129**	**54**	**183**	**4,556**
8 Project Oversight & Support	**12,630**	**1**	**3**	**4**	**12,634**
Subtotal PMB	***80,357***	***1,593***	***764***	***2,357***	***82,714***
Contingency	**11,969**	**(1,593)**	**(764)**	**(2,357)**	**9,612**
TEC =	**92,326**				**92,326**
DCMA	**75**				**75**
TOTALS - TPC	***92,401***				***92,401***
				BCWR	**44,400**
				Contingency	**9,612**
				Balance	
					21.6%

Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
cc 9450 - NCSX Fabrication (MIE)									
1 - Stellarator Core Systems									
11 - In-Vessel Components									
Job: 1101 - Limiter Adv Conc/Prel Dsn-CLOSED***									
Prior Costs									
1101-100	Update Conceptual Design	15JUL03A	78*	30SEP03A			100	60.00	60.00
12 - Vacuum Vessel Systems									
Job: 1201 - Vacuum Vessel Prelim Dsn-CLOSED****									
Prior Costs									
1201-002	Apr-Sept MIE Cost ORNL	01APR03A	47	30SEP03A			100	319,050.00	319,050.00
1201-003	Apr-MSept MIE Cost PPPL	01APR03A	47	30SEP03A			100	105,370.00	105,370.00
1201-500	WBS 12 & 14 PDR		0	07OCT03A			100	0.00	0.00
Job: 1202 - Vacuum Vessel R&D **CLOSED**									
Vessel Weld Joint R&D									
1203-405	Field Weld joint design and Specific spool piece	01DEC03A	107*	30APR04A			100	28,000.00	28,000.00
1202-800	Inconnel Procurement *ECP6*	01APR04A	10	09APR04A			100	1,783.60	1,783.60
1202-803	Drawings for Arc/Samples *ECP6*	12APR04A	10	16APR04A			100	3,208.40	3,208.40
1202-806	Waterjet Arcs *ECP6*	19APR04A	2	22APR04A			100	1,192.32	1,192.32
1202-809	Machine weld groove *ECP6*	23APR04A	5	26APR04A			100	3,369.60	3,369.60
1202-812	Anneal Samples *ECP6*	27APR04A	2	28APR04A			100	1,684.80	1,684.80
1202-815	Setup weld test *ECP6*	29APR04A	4	30APR04A			100	1,192.32	1,192.32
1202-818	Weld samples *ECP6*	03MAY04A	6	10MAY04A			100	2,527.20	2,527.20
1202-821	Eval & Redesign Joint iteration 2 *ECP6*	01JUN04A	5	07JUN04A			100	3,208.40	3,208.40
1202-824	Machine iteration 2 *ECP6*	02AUG04A	10*	13AUG04A			100	3,369.60	3,369.60
1202-827	Anneal iteration 2 *ECP6*	16AUG04A	2	17AUG04A			100	1,684.80	1,684.80
1202-833	Eval & redesign joint iteration 3 *ECP6*	01SEP04A	4	07SEP04A			100	3,208.40	3,208.40
1202-836	Machine iteration 3 *ECP6*	08SEP04A	4	13SEP04A			100	3,369.60	3,369.60
1202-839	Anneal iteration 3 *ECP6*	14SEP04A	5	20SEP04A			100	1,684.80	1,684.80
1202-842	Weld iteration 3 *ECP6*	21SEP04A	4	24SEP04A			100	2,527.20	2,527.20
1202-845	SOW for full size test sample *ECP6*	24MAR04A	28*	28APR04A			100	6,416.80	6,416.80
1202-866	Engineering Oversght *ECP6*	03MAR04A	149*	30SEP04A			100	18,127.46	18,127.46
Prior Costs									
1202-002	Apr-Sept MIE Cost ORNL	01APR03A	47	30SEP03A			100	60.00	60.00
1202-003	Apr-Sept MIE Cost PPPL	01APR03A	47	30SEP03A			100	128,340.00	128,340.00
1202-ECP16	ecp-16	01OCT03A	47	30SEP04A			100	14,600.00	14,600.00
VV Subcontractor Oversight									
1202-400	Oversight and Contract Management	01OCT03A	79*	02JAN04A			LOE	62,457.20	62,457.20
1202-401	Oversight and Contract Management	05JAN04A	63*	31MAR04A			LOE	48,500.66	48,500.66
1202-402	Oversight and Contract Management	01APR04A	128*	30SEP04A			LOE	18,448.30	18,448.30
Major Tool Subcontract (S04344F)									
1202-303	MT-Issue VVSA MIT/QA plans and C&S Est (3.1)	02JUN03A	0*	13JUN03A			100	18,090.80	18,090.80
1202-305	MT-Issue Draft MIT/QA plan (3.2.1)	13JUN03A	15	27JUN03A			100	10,599.68	10,599.68
1202-310	MT-Incorp Comments & Reissue MIT/QA Plan	10JUL03A	0*	17JUL03A			100	0.00	0.00
1202-315	Fiinalize SOW/contract & Release MT for PVVS	18JUL03A	52*	15AUG03A			100	0.00	0.00
1202-320	MT-PPPL Fabrication Release		0	15AUG03A			100	0.00	0.00
1202-324	MT-PVVS Begin Fabrication (3.2.2)	18AUG03A	56*	30SEP03A			100	388,595.48	388,595.48
1202-325	MT-PVVS Complete Fabrication (3.2.2) [A/ 1]	10NOV03A	122*	23APR04A			100	375,115.28	375,115.28
1202-325.1	Major Tool VVSA Prototype Received		0	23APR04A			100	0.00	0.00

FY06 FY07 FY08 FY09 FY10

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Run Date 25OCT05 11:35

ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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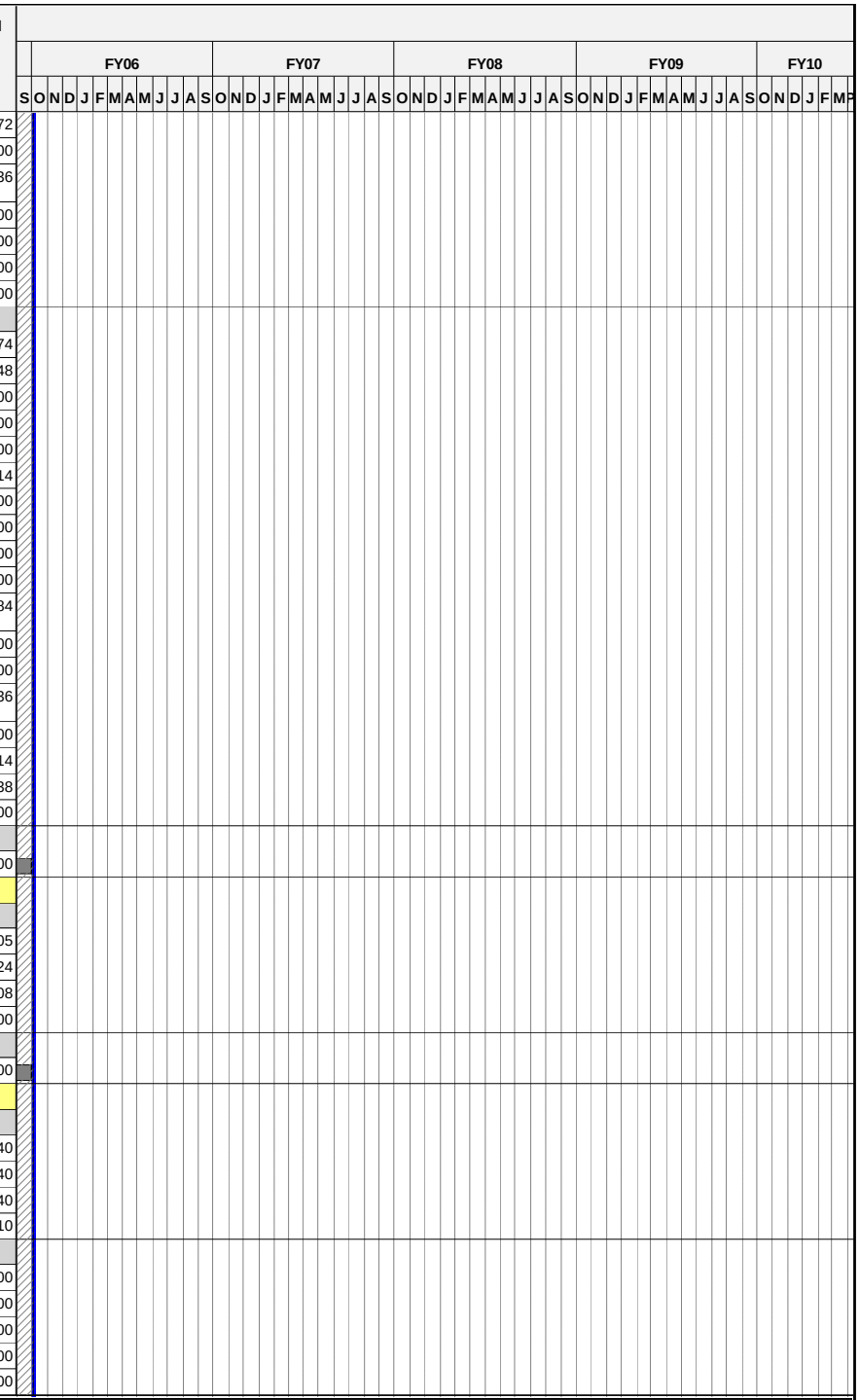
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
1202-325A	Vist MT for welding	01APR04A	3	01APR04A			100	2,566.72	2,566.72
1202-326	Prep Inspection Plan for MT PVVS	30APR04A	5	30APR04A			100	0.00	0.00
1202-327	PPPL Receipt Inspection of MT PVVS	14JUN04A	5	18JUN04A			100	13,643.36	13,643.36
1202-328	Prep Inspection Report of MT PVVS	01JUL04A	5	08JUL04A			100	0.00	0.00
1202-330	MT-Final MIT/QA plans for VVSA (3.3.1)	01JUL04A	15*	22JUL04A			100	6,370.00	6,370.00
1202-335	MT-Firm Fixed Price Proposal for VVSA (3.3.2)	01JUL04A	15*	22JUL04A			100	6,370.00	6,370.00
1202-335.1	Major Tool VVSA Price Proposal Received		0	22JUL04A			100	0.00	0.00
Rohwedder Subcontract (S04345F)									
1202-403	RW-Issue VVSA MIT/QA plans and C&S Est	02JUN03A	0*	13JUN03A			100	75,815.74	75,815.74
1202-405	RW-Issue Draft MIT/QA plan (3.2.1)	13JUN03A	76*	27JUN03A			100	20,409.48	20,409.48
1202-410	RW-Incorp Comments&Reissue MIT/QA Plan	10JUL03A	0*	17JUL03A			100	0.00	0.00
1202-415	Fiinalize SOW/contract & Release MT for PVVS	18JUL03A	52*	15AUG03A			100	0.00	0.00
1202-420	RW-PPPL Fabrication Release		0	15AUG03A			100	0.00	0.00
1202-424	RW-PVVS Begin Fabrication (3.2.2)	18AUG03A	131*	30SEP03A			100	151,109.14	151,109.14
1202-424A	RW identify fabricator	01DEC03A	1	15DEC03A			100	0.00	0.00
1202-424B	PPPL approve new fabricator	16DEC03A	1	31DEC03A			100	0.00	0.00
1202-424D	PPPL visit fabricator (Jan)	01JAN04A	2	30JAN04A			100	0.00	0.00
1202-424E	PPPL visit fabricator (Feb)	01MAR04A	2	31MAR04A			100	0.00	0.00
1202-425	RW-PVVS Complete Fabrication (3.2.2)	01OCT03A	170	28MAY04A			100	311,059.84	311,059.84
1202-425.1	Rohwedder VVSA Prototype Received		0	08JUN04A			100	0.00	0.00
1202-426	Prep Inspection Plan for RW PVVS	07JUN04A	5	08JUN04A			100	0.00	0.00
1202-427	PPPL Receipt Inspection of RW PVVS	08JUN04A	10	21JUN04A			100	13,643.36	13,643.36
1202-428	Prep Inspection Report of RW PVVS	01JUL04A	5	08JUL04A			100	0.00	0.00
1202-430	RW-Final MIT/QA plans for VVSA (3.3.1)	01JUL04A	15*	22JUL04A			100	23,709.14	23,709.14
1202-435	RW-Firm Fixed Price Proposal for VVSA (3.3.2)	01JUL04A	15*	22JUL04A			100	15,122.38	15,122.38
1202-435.1	Rohwedder VVSA Price Proposal Received		0	22JUL04A			100	0.00	0.00
FY05CV-1	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				-21,000.00	-21,000.00
Job: 1206 - VV Field Weld Joint R&D-CLOSED****									
Vessel Weld Joint R&D									
1202-848	Bid,eval,award full size test sample **ECP36**	29APR04A	299*	30JUN05A				9,471.05	9,471.05
1206-100	Prep Sample	01NOV04A	125*	29APR05A			100	1,260.24	1,260.24
1206-110	Weld	01NOV04A	125*	29APR05A			100	298.08	298.08
1206-115	Analyze	01NOV04A	10	30NOV04A			100	6,610.00	6,610.00
FY05CV-3	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				-2,000.00	-2,000.00
Job: 1203 - Vacuum Vessel Final Dsn-GORANSON									
Closeout PDR Design Deliverables									
1203-101	Prepare documents for PDR closeout	03NOV03A	62*	30JAN04A			100	7,721.40	7,721.40
1203-111	Response to chits, prepare FY04	01OCT03A	25	31OCT03A			100	7,721.40	7,721.40
1203-121	Review, revise, and approve SRD	01NOV03A	212*	31AUG04A			100	7,721.40	7,721.40
1203-131	Complete preliminary design of insulation and	10NOV03A	122*	31MAR04A			100	11,582.10	11,582.10
PDR Recommendations									
1203-400	350c Bakeout Study	03NOV03A	94*	31DEC03A			100	25,738.00	25,738.00
1203-401	Analysis & testing of tube attachment method	01DEC03A	20	31DEC03A			100	0.00	0.00
1203-402	Determine thermal expansion vv to mcc	01NOV03A	39*	31DEC03A			100	0.00	0.00
1203-403	Determine cost of fabrication	01DEC03A	20	31DEC03A			100	0.00	0.00
1203-404	DECISION TO PROCEED WITH 350c		0	31DEC03A			100	0.00	0.00



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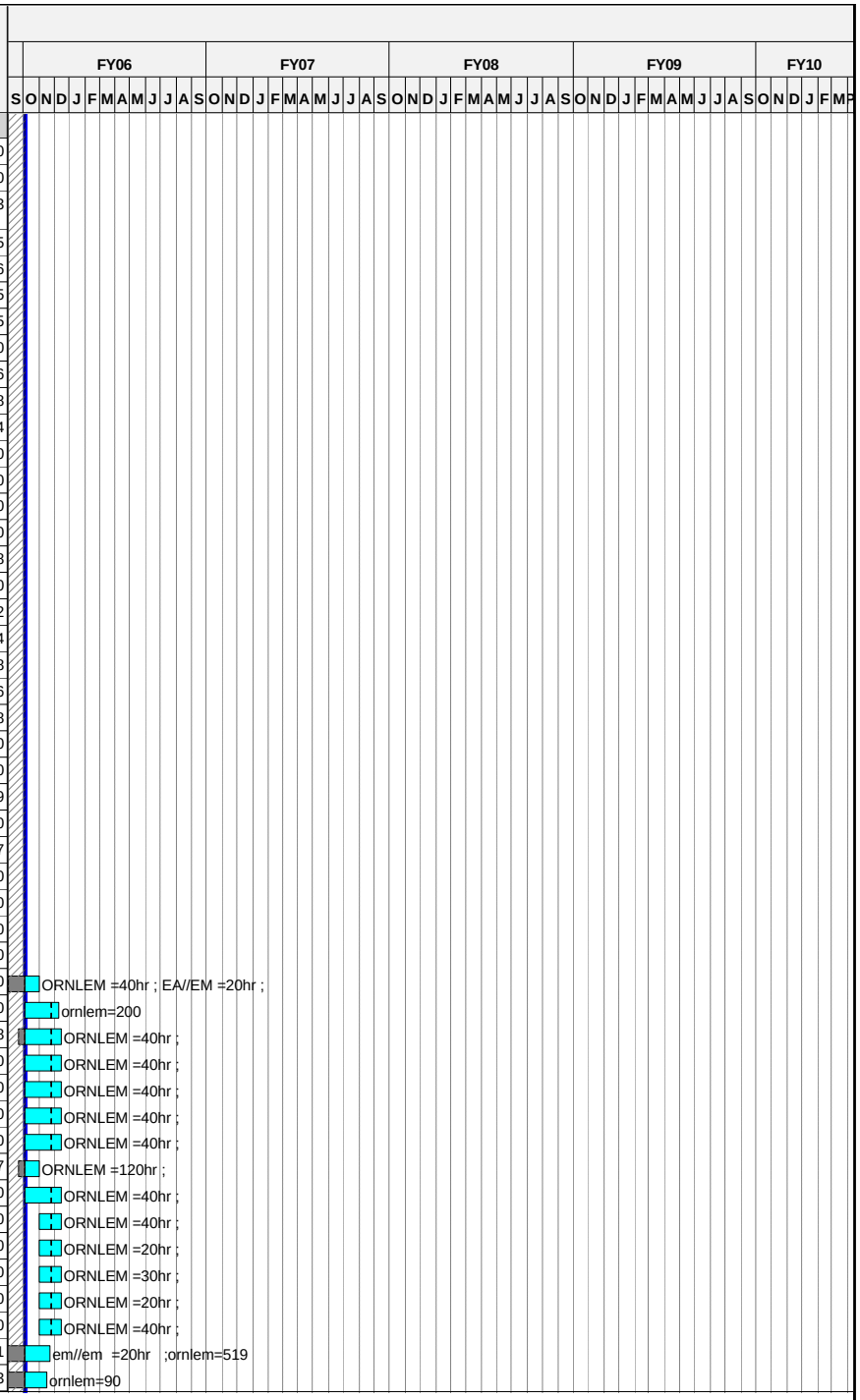
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
Final Design Tasks									
120-100	Magnetic Diag Interface/Install dwgs	01FEB05A	133*	29JUL05A			100	18,600.00	18,600.00
1203-141	Finalize Spec for VVSA	01MAR04A	87*	30JUN04A			100	17,981.20	17,981.20
1203-151	Update VVSA Drawings incl ECP6 add'l port	01DEC03A	149*	30JUN04A			100	202,403.63	202,403.63
1203-161	Finalize & Sign All ICDs	20NOV03A	363*	29APR05A			100	16,686.55	16,686.55
1203-181	Start Thermal Analyses	01NOV03A	82*	30JAN04A			100	22,144.76	22,144.76
1203-191	Start Eddy Current Analyses	03NOV03A	87*	30JAN04A			100	3,424.45	3,424.45
1203-201	Update/Perform FMECA Analyses	01MAR04A	284*	15APR05A			100	5,640.45	5,640.45
1203-202	Start Port Nozzle Analysis	02JAN04A	63*	30JAN04A			100	4,944.00	4,944.00
1203-232	Structural Analysis of Vac Vsl	01MAR04A	294*	29APR05A			100	94,239.96	94,239.96
1203-233	Check structural analysis	26APR04A	25*	28MAY04A			100	12,638.08	12,638.08
1203-234	Perform Global Seismic Analysis	01MAR04A	151*	31AUG04A			100	37,914.24	37,914.24
1203-235	Perform Local Thermal Analysis	02FEB04A	65*	30APR04A			100	15,442.80	15,442.80
1203-236	Checdk Local Thermal Analysis	02FEB04A	65*	30APR04A			100	15,442.80	15,442.80
1203-237	Perform Thermal-Hydraulic Analysis VV htg/clng	02FEB04A	65*	30APR04A			100	10,295.20	10,295.20
1203-238	Check Thermal-Hydraulic Analysis VV htg/clng	02FEB04A	65*	30APR04A			100	12,360.00	12,360.00
1203-239	Perform Analysis of VV Supports	01MAR04A	294*	29APR05A			100	22,071.98	22,071.98
1203-240	Check Analysis of VV Supports	26APR04A	25*	28MAY04A			100	5,147.60	5,147.60
1203-261	Startup Plan	01OCT03A	298*	29OCT04A			100	26,136.92	26,136.92
1203-291	Update Design Basis Document	20APR04A	29*	18MAY04A			100	2,059.04	2,059.04
1203-301	Update Cost and Schedule Estimates	01SEP04A	42*	29OCT04A			100	3,404.28	3,404.28
1203-311	Prepare Final Design ECP	24MAY04A	10	28MAY04A			100	3,088.56	3,088.56
1203-321	Assemble FDR Drawing Package, Check &	03MAY04A	20*	18MAY04A			100	4,118.08	4,118.08
1203-331	Prepare Presentations	03MAY04A	20*	18MAY04A			100	12,869.00	12,869.00
1203-341	Conduct VVSA FDR		0	19MAY04A			100	0.00	0.00
1203-361	Final Design of Heating/Cooling	07NOV03A	269*	29APR05A			100	121,988.29	121,988.29
1203-900	WBS 12 FDR w/o insul/htrs**		0	05MAY05A				0.00	0.00
124-011	Final design WBS 124 VV supports	01JUL04A	207*	29APR05A			100	16,302.07	16,302.07
124-011.1	Lateral VV supports	01MAR05A	11*	31MAR05A			100	18,600.00	18,600.00
124-011.2	Analysis of Lateral supports	01FEB05A	85*	31MAY05A			100	6,200.00	6,200.00
124-011.3	check support analysis	24MAY05A	5	31MAY05A			100	4,960.00	4,960.00
125-001	Prelim design WBS 125 local I&C	01JAN05A	65	31MAR05A			100	4,030.00	4,030.00
1203-241	Check FMECA Analyses	01SEP05A	44*	01NOV05	993		20	1,973.42	9,867.10
1203-271	Develop Assy Rqmnts spec & process	03OCT05*	47*	08DEC05	324		10	3,237.00	32,370.00
1203-800	Issue VV FP leak check assy dwg	22SEP05A	59*	15DEC05	390		20	1,336.60	6,682.98
1203-801	Issue VV FP final assy dwg	03OCT05*	52*	15DEC05	390			0.00	6,748.00
1203-802	Issue spacer machining dwgs	03OCT05*	52*	15DEC05	390			0.00	6,748.00
1203-803	Issue VV final assy dwg	03OCT05*	52*	15DEC05	319			0.00	6,748.00
1203-804	Issue VV assy specification	03OCT05*	52*	15DEC05	319			0.00	6,748.00
1203-805	Redo CC heating/coolinbg tube dwgs& analysis	22SEP05A	29*	01NOV05	351		50	9,923.59	19,847.17
1203-806	Establish interface reqmnts	03OCT05*	52*	15DEC05	963			0.00	6,748.00
1203-810	resolve design pockets for soft x ray arrays	01NOV05*	31*	15DEC05	963			0.00	6,748.00
1203-815	Cleanup interfaces cleanup interfaces with other	01NOV05*	31*	15DEC05	963			0.00	3,374.00
1203-820	BOM for all VV parts	01NOV05*	31*	15DEC05	963			0.00	5,061.00
1203-825	develop acquisiton plan for all vv components	01NOV05*	31*	15DEC05	963			0.00	3,374.00
1203-830	conduct mini fdr/procurement reviews	01NOV05*	31*	15DEC05	963			0.00	6,748.00
122-011	Final design WBS 122 Thermal insulation	01JUN04A	373*	21NOV05	406		75*	60,912.46	81,216.61
125-011	Final design WBS 125 local I&C	01MAR05A	184*	15NOV05	410		80*	11,331.54	14,164.43



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ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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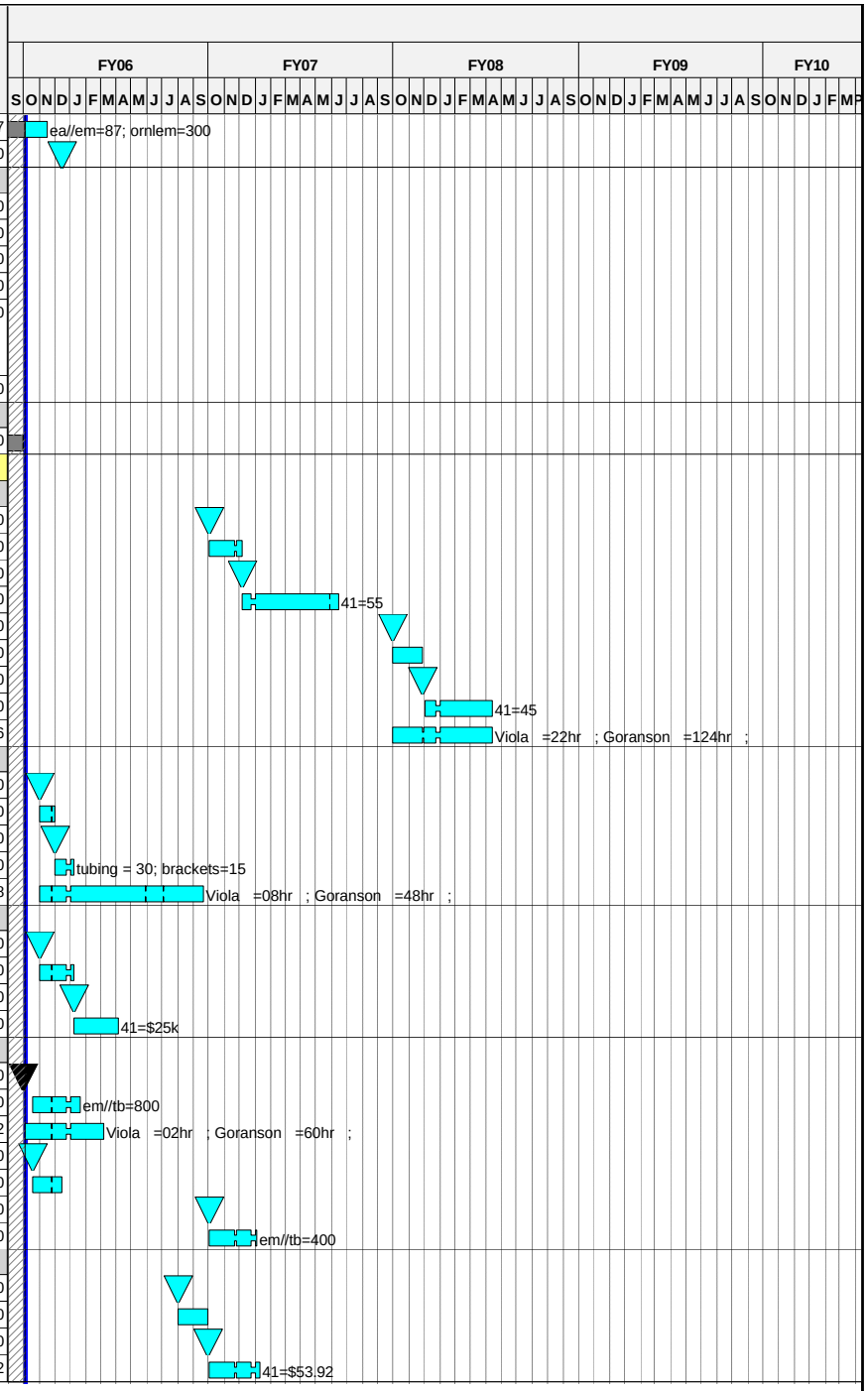
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
122-012	Heater Tape Design	02MAY05A	140*	15NOV05	410		75*	46,493.53	61,991.37
1203-901	**WBS 12 FINAL FDR **		0	15DEC05	390			0.00	0.00
Vacuum Vessel Vendor Selection									
121-6-6	Finalize tech Doc package & Resolve chits	01JUN04A	0*	30JUN04A			100	1,286.90	1,286.90
121-6-8	Evaluate and Select VV Production Vendor	01AUG04A	0*	12AUG04A			100	2,891.10	2,891.10
121-6-83	Negotiate with vendor	17AUG04A	0*	31AUG04A			100	1,604.20	1,604.20
121-6-85	DOE Approve VV Selection & contract	01SEP04A	11	30SEP04A			100	0.00	0.00
121-6-9	Award VV Production Vendor (Phase funded)		0	27SEP04A			100	0.00	0.00
121-36-9.2	Release for Fabrication		0	27SEP04A			100	0.00	0.00
FY05CV-2	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				3,000.00	3,000.00
Job:1204-VV Sys Procurements (non VVSA)-GORANSON									
Thermal Insulation									
123-035	Issue Proc Pkg for insulation boots WBS 122	02OCT06*	0		415			0.00	0.00
123-040	Issue RFQ & Select Vendor insul boots WBS	02OCT06	45	05DEC06	415			0.00	0.00
123-045	Award Insulation Boots&Pyrogel WBS 122		0	05DEC06	415			0.00	0.00
123-050	Fabricate& Deliver Insul Boots &Pyrogel WBS	06DEC06	130	14JUN07	415			0.00	75,405.00
122-030.0	Prep spec and req VV Thermal Insul WBS 122	01OCT07*	0		217			0.00	0.00
122-030	SPEA VV Thermal Insulation WBS 122	01OCT07	43	28NOV07	217			0.00	0.00
122-036.9	Award VV Insulation WBS 122		0	28NOV07	217			0.00	0.00
122-037	VV Insulation Procurement WBS 122	03DEC07*	89	14APR08	217			0.00	63,225.00
122-031	Title III engr WBS 122	01OCT07*	132	14APR08	382			0.00	26,201.76
VV Heating/Cooling Tubing									
123-030.0	Issue Proc Pkg for VV H/C Tubing WBS 123	02NOV05*	0		416			0.00	0.00
123-030	Issue RFQ & Select Vendor VV H/C Tubing	02NOV05	20	01DEC05	416			0.00	0.00
123-036.9	Award H/C Tubing WBS 123		0	01DEC05	416			0.00	0.00
123-037	Fabricate and Deliver H/C Tubing WBS 123	02DEC05	20	06JAN06	416			0.00	61,695.00
123-031	Title III engr WBS 122	02NOV05	220	19SEP06	773			0.00	9,485.68
VV H/C Manifolds & Headers									
123-130.0	Issue Proc Pkg for VV H/C Manifolds WBS 123	02NOV05	0		351			0.00	0.00
123-130	Issue RFQ &Select Vendor VV H/C Manifold	02NOV05	40	06JAN06	351			0.00	0.00
123-136.9	Award H/C Manifolds WBS 123		0	06JAN06	351			0.00	0.00
123-137	Fabricate and Deliver H/C ManifoldsWBS 123	09JAN06	65	07APR06	351			0.00	34,275.00
VV Supports									
124-030.0	Release dwg package for fab VV Vertical	30SEP05A	0					0.00	0.00
124-037	PPPL Fab VV Vert. Supports WBS 124	17OCT05*	60	18JAN06	463			0.00	65,152.00
124-031	Title III engr WBS 124	03OCT05	103	06MAR06	430			0.00	10,469.02
124-030.0L	Issue req & dwg package VV Lateral Sprts	17OCT05*	0		420			0.00	0.00
124-030L	SPEA VV Lateral Supports WBS 124	17OCT05	43	16DEC05	420			0.00	0.00
124-036.9L	Award VV Lateral Supports WBS 124		0	02OCT06*	222			0.00	0.00
124-037L	VV Lateral Supports Fab by PPPL WBS 124	03OCT06	60	04JAN07	222			0.00	33,288.00
VV NB Port Duct Cover									
124-100	Issue req & dwg package NB port cover	02AUG06*	0		223			0.00	0.00
124-110	SPEA VV NB port cover	02AUG06	43	29SEP06	223			0.00	0.00
124-120	Award VV NB port cover		0	29SEP06	223			0.00	0.00
124-130	VV NB port cover Fabrication	02OCT06	65	10JAN07	223			0.00	73,924.32



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ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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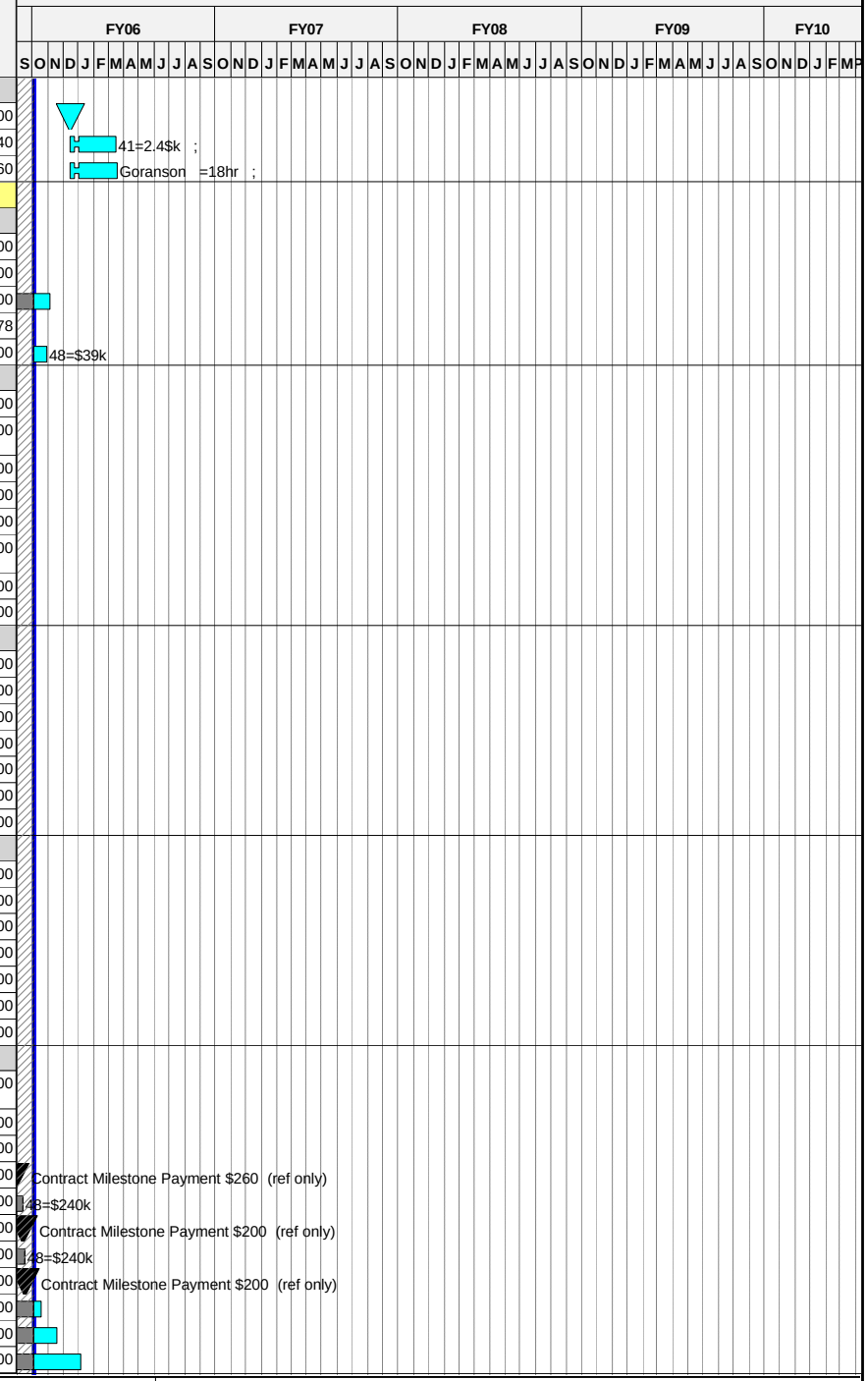
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
VV Local I&C									
125-036	Issue Procurement Package Local I&C WBS 125	16DEC05*	0		390			0.00	0.00
125-037	Procurement Local I&C WBS 125	16DEC05	60	17MAR06	390			0.00	3,290.40
125-015	Title III design Local I&C WBS 125	16DEC05	61	20MAR06	902			0.00	3,036.60
Job: 1250 - Vacuum Vessel Fabrication-VIOLA									
Start Up/Engineering									
VVSA-001	Process Order	24SEP04A	256*	29JUL05A			100	0.00	0.00
VVSA-011	Sect 5.1 Segmentation Scheme	04NOV04A	5	19NOV04A			100	96,075.00	96,075.00
VVSA-021	Sect 5.1.2 Fiducials	29NOV04A	242*	04NOV05	1,009		98	0.00	0.00
VVSA-031	Sect 5.1.3 Proc Outline & Asc Procedures	24SEP04A	152	31MAY05A			100	121,675.78	121,675.78
VVSA-035	Trinos Flanges	03OCT05*	20	28OCT05	339			0.00	39,000.00
Dies & Gages									
VVSA-041	Engineering	20SEP04A	91*	31JAN05A			100	0.00	0.00
VVSA-051	Procure Die Materials (4 sets)	10JAN05A	59*	13MAR05A			100	315,000.00	315,000.00
121-100	S005243 #1-Die Material Procured		0	31MAR05A			100	0.00	0.00
VVSA-061	Machine Complete	01FEB05A	64*	29APR05A			100	0.00	0.00
VVSA-071	Deburr	01FEB05A	64	31MAY05A			100	0.00	0.00
VVSA-081	Inspection	01FEB05A	65	31MAY05A			100	340,640.00	340,640.00
VVSA-091	Development Panels (9 panels)	31MAR05A	25	10JUN05A			100	0.00	0.00
121-115	S005243 #4-Dies Manufactured		0	10JUN05A			100	0.00	0.00
Fixture (2) 60 degree									
VVSA-101	Engineering	25OCT04A	109*	31MAR05A			100	0.00	0.00
VVSA-111	Procure Materials	07MAR05A	0*	30MAR05A			100	0.00	0.00
VVSA-121	Fab & Machine	14MAR05A	36	10JUN05A			100	0.00	0.00
VVSA-131	Assemble	28MAR05A	26	17JUN05A			100	0.00	0.00
VVSA-141	Deburr	06MAY05A	6	20JUN05A			100	0.00	0.00
VVSA-151	Inspection First	13MAY05A	9	23JUN05A			100	0.00	0.00
VVA-152	Inspection Second		0	23JUN05A			100	0.00	0.00
Fixture (3) 120 degree									
VVSA-161	Engineering	15APR05A	5	08JUN05A			100	0.00	0.00
VVSA-171	Procure Materials	08JUN05A	5	13JUN05A			100	220,000.00	220,000.00
121-110	S005243 #3-Fixture material procured		0	13JUN05A			100	0.00	0.00
VVSA-181	Fab & Machine	13JUN05A	82*	29JUL05A			100	0.00	0.00
VVSA-191	Assemble	22JUN05A	78*	29JUL05A			100	0.00	0.00
VVSA-201	Deburr	04JUL05A	75*	29JUL05A			100	0.00	0.00
VVSA-211	Inspection -	30JUN05A	48*	29JUL05A			100	0.00	0.00
Panels & Ports									
VVSA-221	Procure Vessel Material	29OCT04A	127	31MAY05A			100	471,490.00	471,490.00
121-105	S005243 #2-Vessel material procured		0	31MAY05A			100	0.00	0.00
VVSA-231	Production Panels Period #1 LOT 4	22APR05A	94*	12AUG05A			100	260,000.00	260,000.00
121-120	S005243 #5-1/3 of Vessel plates formed		0	23AUG05A			100	0.00	0.00
VVSA-241	Production Panels Period #2 LOT 5	28JUN05A	69*	12SEP05A			100	240,000.00	240,000.00
121-125	S005243 #6-Second 1/3 of vsl plates formed		0	12SEP05A			100	0.00	0.00
VVSA-251	Production Panels Period #3 LOT 6	28JUN05A	69*	16SEP05A			100	240,000.00	240,000.00
121-130	S005243 #7-Last 1/3 of vsl plates formed		0	16SEP05A			100	0.00	0.00
VVSA-261	Port Ext, Misc HW Period #1 LOT 7	04APR05A	141*	17OCT05	328		80	0.00	0.00
VVSA-271	Port Ext, Misc HW Period #2 LOT 8	04APR05A	165*	18NOV05	420		60	0.00	0.00
VVSA-281	Port Ext, Misc HW Period #3 LOT 9	04APR05A	198*	04JAN06	508		50	0.00	0.00



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ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
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Proposed PMB Baseline

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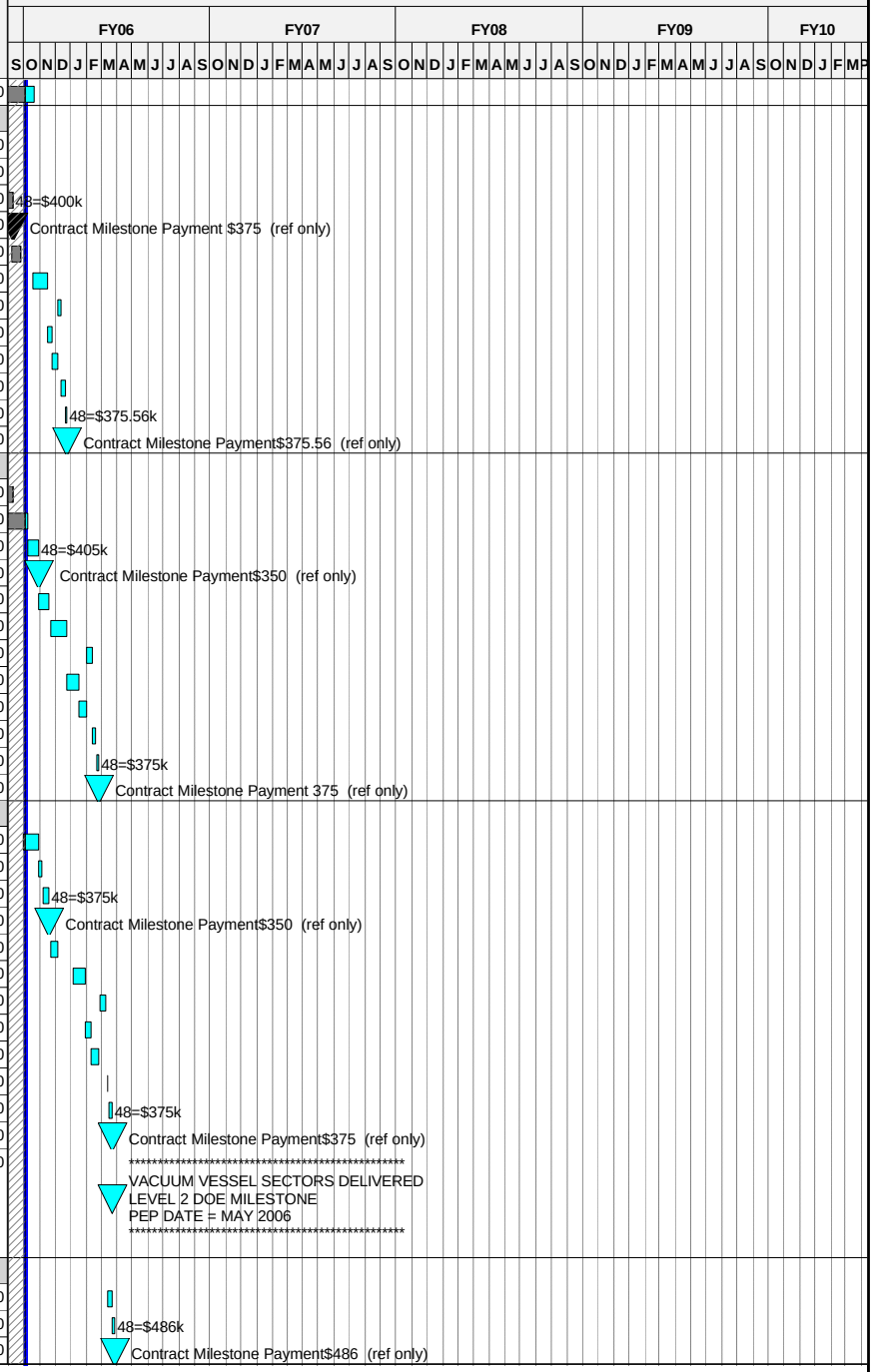
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
VVSA-291	Spacer & port Ext Fixture LOT 13	06JUN05A	100*	21OCT05	610		95	0.00	0.00
First 120 deg segment									
VVSA-301	1st 60 deg segment	10JUN05A	59*	12AUG05			100	175,000.00	175,000.00
VVSA-311	2nd 60 deg segment	23JUN05A	50*	15AUG05			100	175,000.00	175,000.00
VVSA-321	Join two pieces	15AUG05A	35	08SEP05A			100	50,000.00	50,000.00
121-135	S005243 #8-One VVSA fabricated		0	08SEP05A			100	0.00	0.00
VVSA-331	Machine for Ports	08SEP05A	0*	23SEP05A				0.00	0.00
VVSA-341	Weld Ports	18OCT05*	20*	14NOV05	328			0.00	0.00
VVSA-351	Final Machine	06DEC05*	6*	13DEC05	328			0.00	0.00
VVSA-361	Vacuum Test	15NOV05*	7*	23NOV05	328			0.00	0.00
VVSA-371	Cut Off Ports	24NOV05*	8*	05DEC05	328			0.00	0.00
VVSA-381	Inspect & Pack for Shipping LI#4	14DEC05*	5*	20DEC05	328			0.00	0.00
VVSA-391	Receive at PPPL	21DEC05	3*	23DEC05	328			0.00	375,560.00
121-150	S005243 #11-Receipt/Acceptance of 1st VVSA		0	23DEC05*	328			0.00	0.00
Second 120 deg segment									
VVSA-401	60 deg segment	12AUG05A	36*	09SEP05A			100	0.00	0.00
VVSA-411	60 deg segment	26AUG05A	31*	07OCT05	420		95	0.00	0.00
VVSA-421	Join two pieces	10OCT05*	15*	28OCT05	420		10	0.00	405,000.00
121-140	S005243 #9-Second VVSA fabricated		0	28OCT05	420			0.00	0.00
VVSA-431	Machine for Ports	31OCT05*	15*	18NOV05	420			0.00	0.00
VVSA-441	Weld Ports	21NOV05*	25*	23DEC05	420			0.00	0.00
VVSA-451	Final Machine	31JAN06*	10*	13FEB06	420			0.00	0.00
VVSA-461	Vacuum Test	26DEC05	16*	16JAN06	420			0.00	0.00
VVSA-471	Cut Off Ports	17JAN06*	10*	30JAN06	420			0.00	0.00
VVSA-481	Inspect & pack for Shipping LI#4	14FEB06*	4*	17FEB06	420			0.00	0.00
VVSA-491	Receive at PPPL	21FEB06	4	24FEB06*	419			0.00	375,000.00
121-155	S005243 #12-Receipt /Acceptance of 2nd VVSA		0	24FEB06*	419			0.00	0.00
Third 120 deg segment									
VVSA-501	60 deg segment	30SEP05A	21*	28OCT05	528			0.00	0.00
VVSA-511	60 deg segment	31OCT05*	5*	04NOV05	528			0.00	0.00
VVSA-521	Join two pieces	07NOV05*	10*	18NOV05	528			0.00	375,000.00
121-145	S005243 #10-Third VVSA fabricated		0	18NOV05	528			0.00	0.00
VVSA-531	Machine for Ports	21NOV05*	13*	07DEC05	528			0.00	0.00
VVSA-541	Weld Ports	05JAN06*	17*	27JAN06	508			0.00	0.00
VVSA-551	Final Machine	27FEB06*	10*	10MAR06	508			0.00	0.00
VVSA-561	Vacuum Test	30JAN06*	8*	08FEB06	508			0.00	0.00
VVSA-571	Cut Off Ports	09FEB06*	12*	24FEB06	508			0.00	0.00
VVSA-581	Inspect & Pack for Shipping LI#4	13MAR06*	2*	14MAR06	508			0.00	0.00
VVSA-591	Receive at PPPL	16MAR06	4	21MAR06	507			0.00	375,000.00
121-160	S005243 #13-Receipt/Acceptance of 3rd VVSA		0	21MAR06	507			0.00	0.00
121-038.1	All Vacuum Vessel Sections (3) Delivered		0	21MAR06	507			0.00	0.00
Ship Tooling									
VVSA-601	Pack Tooling for PPPL	15MAR06	5	21MAR06	908			0.00	0.00
VVSA-611	PPPL Receive Tooling	22MAR06	4	27MAR06	908			0.00	486,000.00
121-165	S005243 #14-Delivefy of tooling,dies,fixtures		0	27MAR06	908			0.00	0.00



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ECP-38 baseline
Progress Bar
Critical Activity

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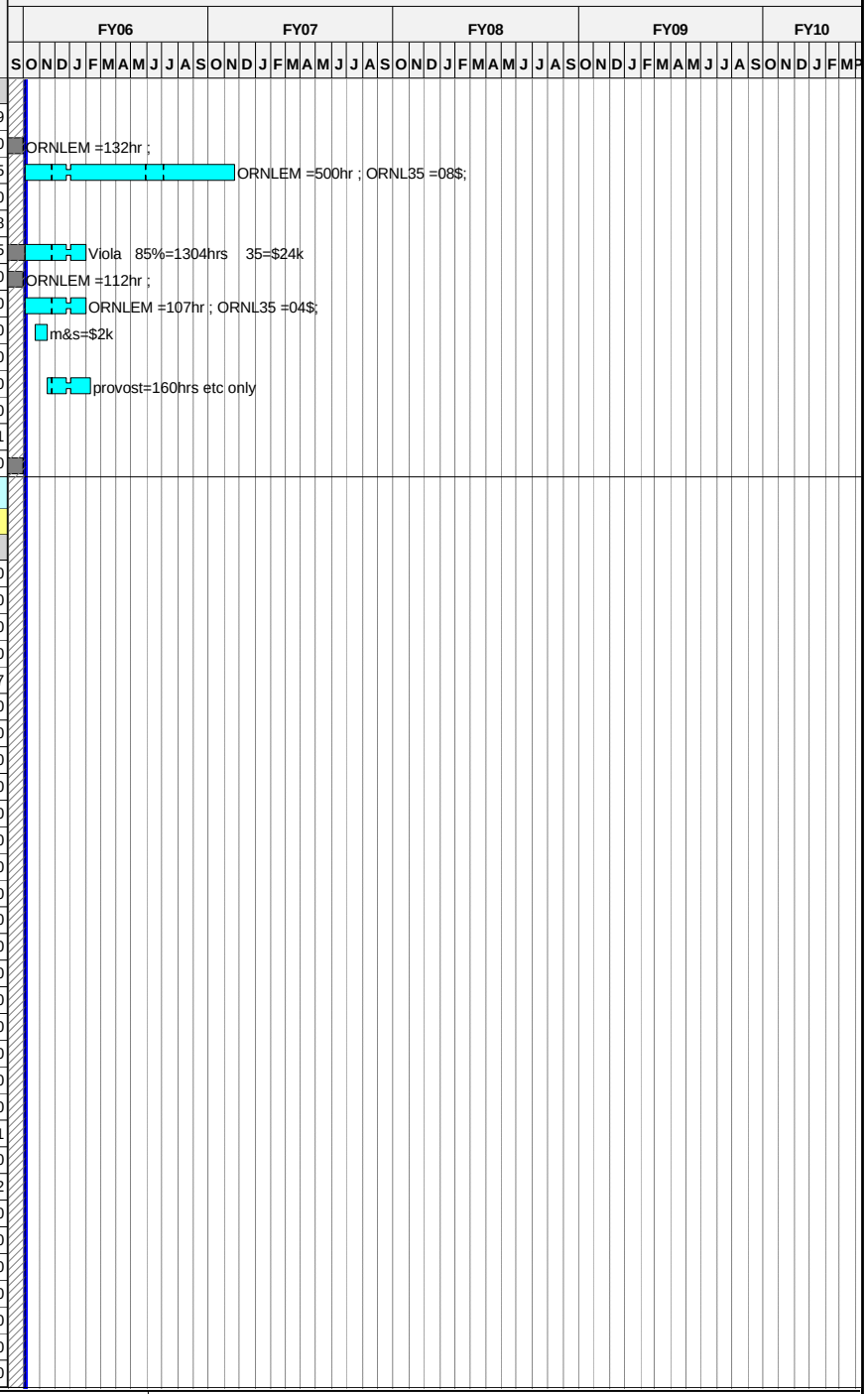
121-031	VVSA Title III engr	21MAY04A	631	28FEB05A			LOE	27,753.79	27,753.79
121-034	VVSA Title III engr	01MAR05A	152*	30SEP05A			LOE	20,460.00	20,460.00
121-034.1	VVSA Title III engr	03OCT05*	288*	22NOV06	727		LOE	0.00	92,715.05
121-032	VVSA Contract oversight FY04	21MAY04A	386*	30SEP04A			LOE	20,052.50	20,052.50
121-033	VVSA Contract oversight FY05	01OCT04A	290*	28FEB05A			LOE	75,267.38	75,267.38
121-035	VVSA Contract oversight FY05 & FY06	01MAR05A	231*	31JAN06	936		LOE	168,266.35	255,723.95
121-035.1	ORNL fesign support during MTM Contract	01MAR05A	152*	30SEP05A			LOE	17,360.00	17,360.00
121-035.2	ORNL design support during MTM Contract	03OCT05*	79*	31JAN06	936		LOE	0.00	22,118.90
121-036	Ship vac equipt from PPPL to MTM for vac	25OCT05	15	14NOV05	311			0.00	2,742.00
121-037	Purchase seals and ship to MTM	25APR05A	70*	29JUL05A			100	42,447.20	42,447.20
121-038	assist MTM testing of VVSA	15NOV05	54*	08FEB06	495			0.00	0.00
121-039	Design Seal Template	01MAR05A	20	31MAR05			100	2,480.00	2,480.00
121-141	Fabricate Seal Template and ship to MTM	01MAR05A	65	31MAR05			100	4,240.11	4,240.11
FY05CV-4	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				-49,000.00	-49,000.00
13 - Conventional Coils									
Job: 1301 - TF Design-KALISH									
Preliminary Design									
130-000	TF PDR & FDR Engineering	01NOV04A	77*	28FEB05A			100	51,227.50	51,227.50
1402-004	Subcontract analysis upport for PDR	01OCT03A	41*	26NOV03A			100	5,096.00	5,096.00
1402-005	VV/MCC PDR support	01OCT03A	37*	31OCT03A			100	4,017.00	4,017.00
1301-100	Prepare Scope Sheet & define interfaces	03NOV03A	329*	28FEB05A			100	1,892.90	1,892.90
1301-105	Prepare Interface Dwgs for ICD's	01DEC03A	230*	29OCT04A			100	2,798.67	2,798.67
1301-140	Complete Draft SOW	02JAN04A	10	15JAN04A			100	4,635.00	4,635.00
1301-145	Post Draft SOW on WEB to Solicit Vendr Input	16JAN04A	2	19JAN04A			100	1,236.00	1,236.00
1301-150	Vendor Responses	02FEB04A	102*	30APR04A			100	6,952.50	6,952.50
1301-155	Trim Coil Layouts	01OCT03A	59*	23DEC03A			100	53,611.50	53,611.50
1301-160	Trim Coil Leads	01DEC03A	140*	30JAN04A			100	6,798.00	6,798.00
1301-165	PF1-PF3 Support System Layouts	01DEC03A	15	30JAN04A			100	20,548.50	20,548.50
1301-300	Investigate Experimental Data *ECP6*	12APR04A	5	16APR04A			100	618.00	618.00
1301-303	Prepare Test Reqmnts *ECP6*	19APR04A	61*	30JUN04A			100	772.50	772.50
1301-318	Evaluate 3D glass *ECP6*	05APR04A	5	09APR04A			100	618.00	618.00
1301-170	New Lead Details	01DEC03A	10	23DEC03A			100	13,596.00	13,596.00
1301-175.1	Evaluate Design as Cost Savings	01AUG04A	3	31AUG04A			100	0.00	0.00
1301-175.2	Revised Design Stress Analysis	02AUG04A	5	31AUG04A			100	3,822.00	3,822.00
1301-175.3	Layout New Wedge Concept	02AUG04A	5	31AUG04A			100	4,944.00	4,944.00
1301-175.4	Develop Comparison	02AUG04A	4	31AUG04A			100	0.00	0.00
1301-175.5	Cost Estimate for Wedge Concept	02AUG04A	43*	30SEP04A			100	0.00	0.00
1301-175.6	Review Revised TF Concept	01SEP04A	1	30SEP04A			100	0.00	0.00
1301-175.7	Complete PDR Drawings	01SEP04A	62	30NOV04A			100	12,928.71	12,928.71
1301-175.8	Rerun Analysis	01SEP04A	42*	29OCT04A			100	6,370.00	6,370.00
1301-180	Update ANSYS model & structure	03NOV03A	142*	27FEB04A			100	8,263.62	8,263.62
1301-185	FEA Analysis Coils,Stress deflection	01DEC03A	123*	28MAY04A			100	12,229.00	12,229.00
1301-195	Seismic Analysis	26NOV03A	104*	30APR04A			100	12,229.00	12,229.00
1301-190	FEA Analysis PF Supports,Stress Deflection	01MAR04A	108*	30JUN04A			100	9,783.20	9,783.20
1301R-00	Oversight,suprevision,job management	02JUL04A	104*	01NOV04A			100	53,476.00	53,476.00
1301R-03	ReEvaluate Analysis, Dahlgren	02JUL04A	15	22JUL04A			100	18,540.00	18,540.00
1301R-04	Is Insulation Scheme Acceptable ?	23JUL04A	1	23JUL04A			100	0.00	0.00
1301R-05	Change Insulation Scheme	26JUL04A	1	26JUL04A			100	1,236.00	1,236.00



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ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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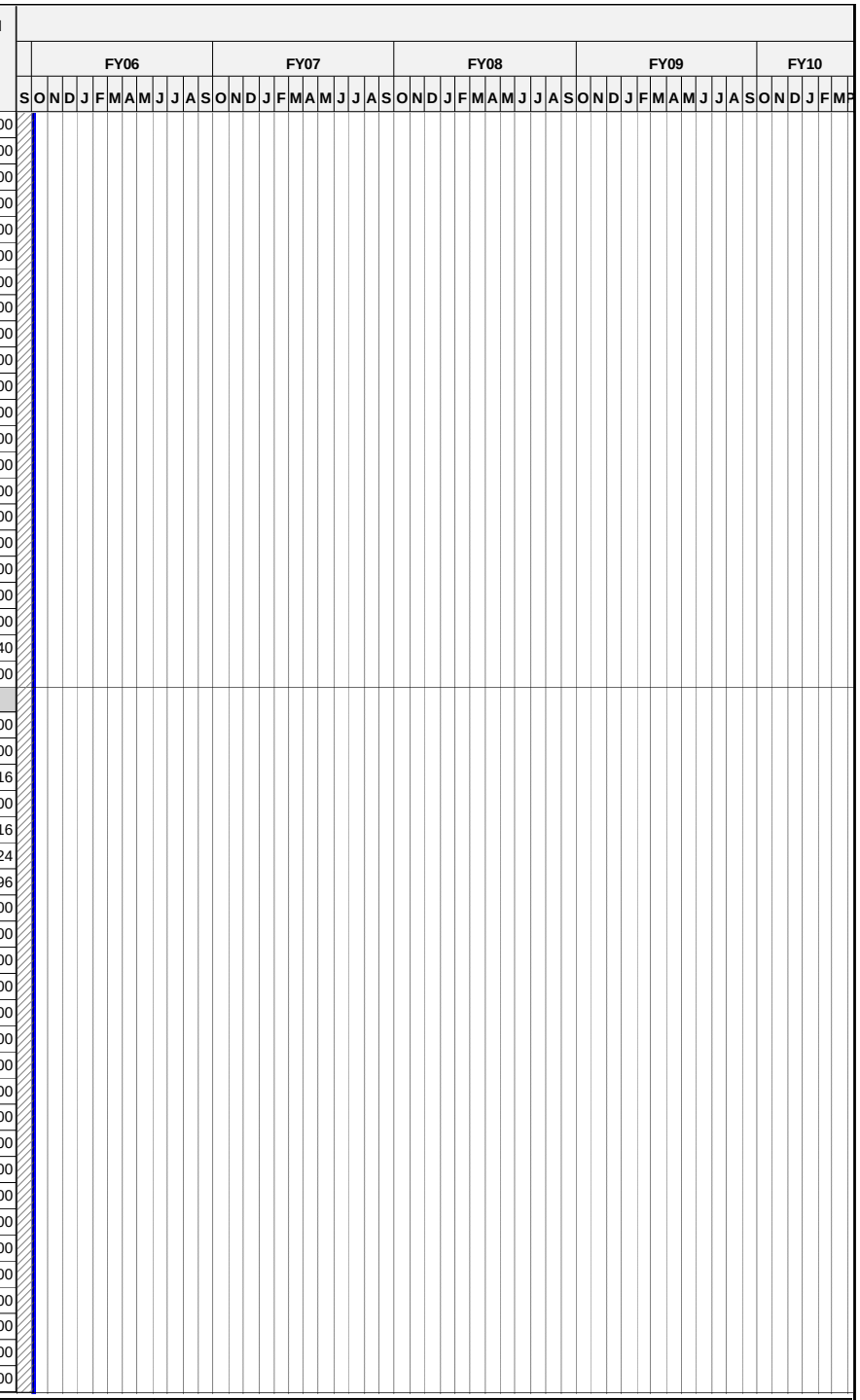
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
1301R-06	Prepare Test Spec	27JUL04A	3	29JUL04A			100	0.00	0.00
1301R-17	Insulation Voltage Standoff Evaluation	29JUL04A	2	30JUL04A			100	0.00	0.00
1301R-22	Hydraulic Analysis	21JUN04A	10	02JUL04A			100	12,360.00	12,360.00
1301R-24	Launching Load Evaluation	06JUL04A	15	23JUL04A			100	0.00	0.00
1301R-28	TF Defelction vs Island Study	05JUL04A	10	16JUL04A			100	0.00	0.00
1301R-29	Review SRD	30JUN04A	106*	30NOV04A			100	0.00	0.00
1301R-19	Add New Pusher Support Stucture	01AUG04A	2	31AUG04A			100	0.00	0.00
1301R-23	Document and Summerize Analysis	01OCT04A	79*	31JAN05A			100	5,192.00	5,192.00
1301R-25	Final Determination ofLaunching Loads	01AUG04A	1	31AUG04A			100	1,274.00	1,274.00
1301R-26	Final Launch Load Analysis	02AUG04A	3	31AUG04A			100	3,822.00	3,822.00
1301R-27	Obtain Stresses from Deflection Analysis	01AUG04A	2	31AUG04A			100	2,548.00	2,548.00
1301R-32	Prelim ICDs	01OCT04A	99*	28FEB05A			100	0.00	0.00
1301R-33	Prepare PDR Material	08NOV04A	73*	04FEB05A			100	2,548.00	2,548.00
1301R-20	TF PDR		0	07FEB05A			100	0.00	0.00
1301R-07	Procure Test Services	01SEP04A	42*	29OCT04A			100	2,558.00	2,558.00
1301R-08	Test Materials at CTD	01OCT04A	51*	30NOV04A			100	0.00	0.00
1301R-09	Order Sample Materials	31JAN05A	0*	31JAN05A			100	0.00	0.00
1301R-10	Check or Re-Run Analysis with new data	01DEC04A	10	31DEC04A			100	13,220.00	13,220.00
1301R-11	Design Test Fixtures	01JAN05A	10	31JAN05A			100	6,610.00	6,610.00
1301R-13	Update Cost and Schedule	07FEB05A	0*	07FEB05A			100	0.00	0.00
1301R-14	Build Samples	01JAN05A	41*	28FEB05A			100	12,602.40	12,602.40
1301R-99	Chit resolution,design,analysis (ecp24 plg)	01FEB05A	0*	28FEB05A			100	91,000.00	91,000.00
Final Design									
1301FD-01	TF Detailed Drawings	01MAR05A	62	31MAY05A			100	19,830.00	19,830.00
1301FD-02	Develop Subassembly Process	01MAR05A	57	31MAY05A			100	0.00	0.00
1301FD-09	Electrical Test 1st Sample	01MAR05A	2	31MAR05A			100	596.16	596.16
1301FD-10	Ship 1st Sample	01MAR05A	5	31MAR05A			100	0.00	0.00
1301FD-11	Machine Copper Bars 2nd Sample	01MAR05A	1	31MAR05A			100	596.16	596.16
1301FD-12	Turn to Turn and Ground Wrap 2nd Sample	01MAR05A	7	31MAR05A			100	8,346.24	8,346.24
1301FD-13	Impregnate and Complete Sample 2nd Sample	01MAR05A	3	31MAR05A			100	3,576.96	3,576.96
1301FD-14	Update Analysis for Front Puller	01MAR05A	3	31MAR05A			100	3,843.00	3,843.00
1301FD-15	Lead Transition Stress Analysis	01MAR05A	44*	29APR05A			100	5,124.00	5,124.00
1301FD-16	Honeycomb InsulationStress Analysis	01MAR05A	4	31MAR05A			100	5,124.00	5,124.00
1301FD-18	Electrical Test 2nd Sample	01MAR05A	1	31MAR05A			100	0.00	0.00
1301FD-19	Ship 2nd Sample	01MAR05A	5	31MAR05A			100	0.00	0.00
1301FD-20	Test 1st Sample	01MAR05A	44*	29APR05A			100	21,162.00	21,162.00
1301R-12	Build Test Fixture	01FEB05A	43*	31MAR05A			100	6,610.00	6,610.00
1301FD-01B	Redesign Lead Stems	01MAR05A	62	31MAY05A			100	0.00	0.00
1301FD-01C	Lead Stem Detail Dwgs	01MAR05A	87*	30JUN05A			100	0.00	0.00
1301FD-01D	Test Lead Stem Support Blocks	01JUN05A	87*	30JUN05A			100	0.00	0.00
1301FD-04	Final Drawing Check	01MAR05A	57	31MAY05A			100	6,610.00	6,610.00
1301FD-06	Complete ICDs	01MAR05A	106*	29JUL05A			100	0.00	0.00
1301FD-17	Resolve Tolerance Issues	01MAR05A	97*	15JUL05A			100	6,610.00	6,610.00
1301FD-21	Test 2nd Sample	01APR05A	72*	13JUL05A			100	21,162.00	21,162.00
1301FD-03	Layout Subassembly Fixture	25MAY05A	26*	30JUN05A			100	5,288.00	5,288.00
1301R-31	Review and Approve Coil Spec	31MAY05A	1	31MAY05A			100	0.00	0.00
1301FD-70	TF Conductor FDR		0	09JUN05A			100	0.00	0.00
131-012C	Wedge Casting FDR		0	13JUL05A			100	0.00	0.00
1301FD-08	Resolove PDR Chits	01MAR05A	144*	31AUG05A			100	0.00	0.00



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ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
1301FD-22	Evaluate Results	01APR05A	121*	31AUG05A			100	0.00	0.00
131-012	Comprehensive WBS 13 TF FDR		0	12AUG05A			100	0.00	0.00
1301FD-05	Anaylsis Check	01MAR05A	174*	01NOV05	993		90	23,796.00	26,440.00
1301R-37	Prepare Coil Spec	01MAR05A	174*	01NOV05	342		85	0.00	0.00
1301FD-84	TF Coil Fabrication & assy package approved	02NOV05	5	08NOV05	341			0.00	0.00
1301FD-50	Engineering LOE	02APR05A	150*	30SEP05A			100	49,575.00	49,575.00
Prior Costs									
163-001	Title I design CS sprt struc	01DEC03A	341*	30SEP04A			LOE	45,035.13	45,035.13
1301-0002	Apr-Sept MIE Cost ORNL	01APR03A	64*	30SEP03A			100	0.00	0.00
1301-0003	Apr-Sept MIE Cost PPPL	01APR03A	64*	30SEP03A			100	91,660.00	91,660.00
1301-FY04	FY04 cost variance	01OCT03A	64*	30SEP04A			100	27,000.00	27,000.00
FY05CV-5	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				120,000.00	120,000.00
Job: 1350 TF Coil Fab Preparation-CHRZANOWSKI									
1350-100	Design tooling & winding facility	01MAR05A	152*	31AUG05A			100	96,961.10	96,961.10
1350-605	Install winding table	01JUN05A	50*	30JUN05A			100	24,655.80	24,655.80
1350-100.1	Design tooling & winding facility	01SEP05A	43*	31OCT05	347		77*	38,160.91	49,050.02
1350-500	Recondition turnkng fixture	21MAR05A	88*	30JUN05A			100	33,232.20	33,232.20
1350-505	Winding Clamps	02MAY05A	130*	01NOV05	357		60	12,751.11	21,251.86
1350-600	Build Cleanroom	28MAR05A	143*	14OCT05	369		95	41,955.23	44,291.53
1350-510	Taping Machine Conditioning	03OCT05*	22	01NOV05	357			0.00	31,220.60
1350-515	Winding mandrel	01JUL05A	86*	31OCT05	358		30	8,619.79	31,990.07
1350-520	Misc tools & equipt	08SEP05A	69*	15DEC05	327		70	2,832.54	45,605.41
1350-610	Setup copper delivery system	01NOV05*	15	21NOV05	343			0.00	11,240.32
1350-615	Install taping machine	01NOV05*	15	21NOV05	343			0.00	11,240.32
1351-089	Fab Lift Fixture	09DEC05	5	15DEC05	327			0.00	11,727.36
1350-620	Complete setup of facility		0	15DEC05*	327			0.00	0.00
1350-525	TF mold (2)	01NOV05*	44	11JAN06	347			0.00	123,390.00
1351-080	Design Assy Fixture	03JAN06*	20	30JAN06	430			0.00	32,432.40
1351-086	Fab/Assemble Fixture	31JAN06	19	24FEB06	430			0.00	43,708.00
1351-088	Setup Wedge Casting Fixture & test	27FEB06	5	03MAR06	430			0.00	19,545.60
FY05CV-7	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				135,000.00	135,000.00
Job: 1351 - TF Coil Fabr Supplies-KALISH									
TF Materials & Supplies									
1301FD-72	TF Conductor Procurement Package approved	31MAY05A	5	31MAY05A			100	0.00	0.00
1301FD-74	Prepare & issue TF Conductor RFP	31MAY05A	23*	03JUN05A			100	0.00	0.00
1301FD-76	Evaluate bids and award TF conductor	06JUN05A	0*	30JUN05A			100	0.00	0.00
1301FD-77	Award TF conductor		0	30JUN05A			100	0.00	0.00
1351-529	Coil Supplies- Deliver Copper	01JUL05A	75*	14OCT05	309		100	133,864.50	133,864.50
1301FD-78	TF Wedge Plate procurement package approved	29JUL05A	5	29JUL05A			100	0.00	0.00
1301FD-80	Prepare and Issue TF Wedge Plate RFP	12AUG05A	5	18AUG05A			100	0.00	0.00
1301FD-82	Evaluate and award TF Wedge Plate Fabr	03OCT05	41*	30NOV05	390			0.00	0.00

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ECP-38 baseline
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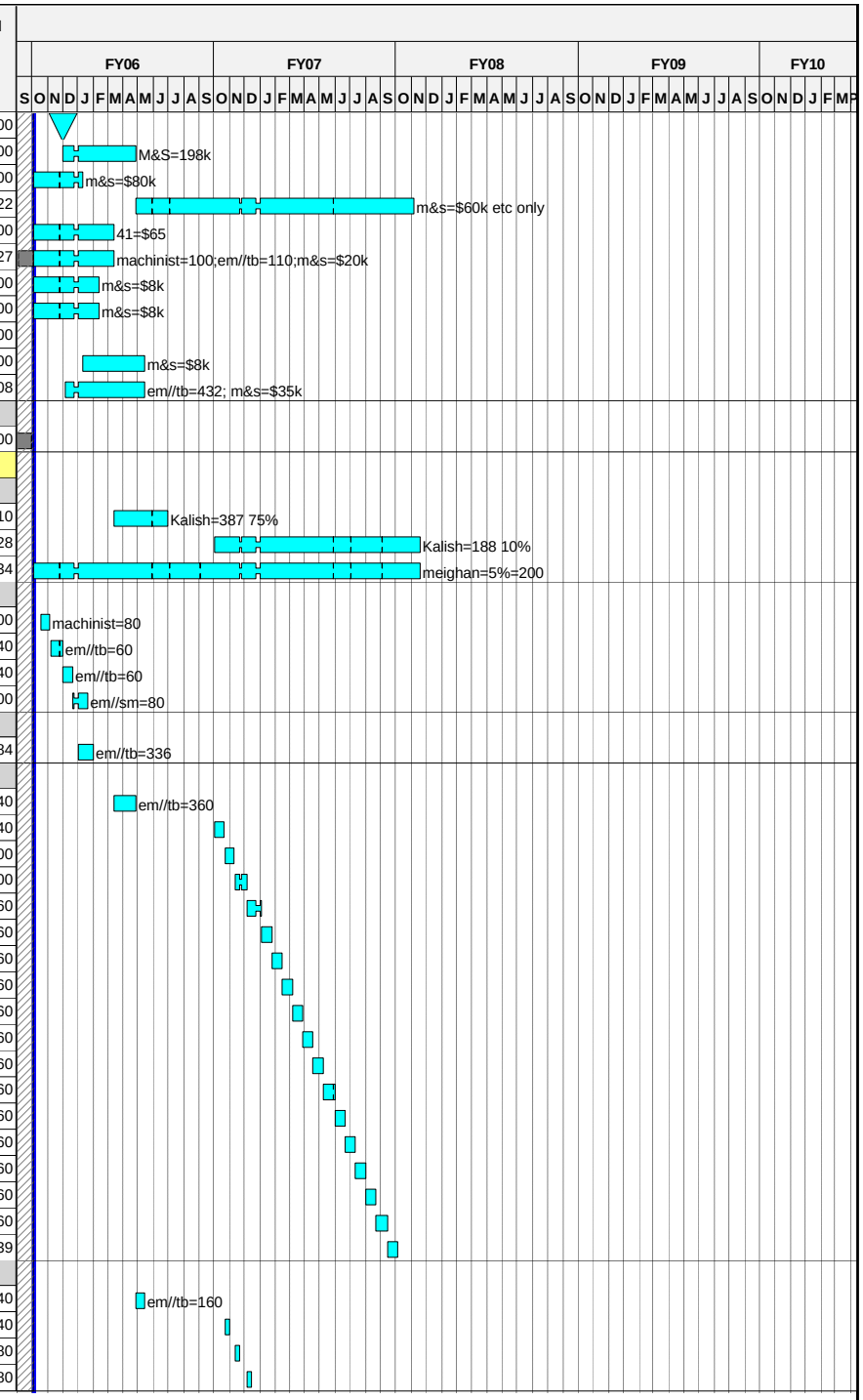
1351-85C	Award TF Castings		0	30NOV05	391			0.00	0.00
1351-85D	Vendor Fab TF Castings	01DEC05	100	27APR06	391			0.00	271,458.00
1351-525	Coil Supplies- Insulation	03OCT05	65	11JAN06	347			0.00	109,680.00
1351-527	Coil Supplies- Epoxy	28APR06	388*	07NOV07	187			0.00	82,407.22
1351-531	Coil Supplies- G-11 fillers (PE006162)	03OCT05	108*	13MAR06	271			0.00	89,115.00
1351-533	Coil Supplies- Lead Blocks(pe6134 for copper)	03SEP05A	128*	13MAR06	271		M&S	32,025.00	53,322.27
1351-535	Coil Supplies- Safety & PPE equipt & supplies	03OCT05	88	13FEB06	291			0.00	10,968.00
1351-537	Coil Supplies- Misc supplies	03OCT05	88	13FEB06	291			0.00	10,968.00
1351-539	Coil Supplies- Primer**NOT REQ'D**)	03OCT05	1	03OCT05	378			0.00	0.00
1351-541	VPI Supplies- Misc VPI supplies	12JAN06	88	15MAY06	271			0.00	10,968.00
1351-543	VPI Supplies- Disposable VPI HW	08DEC05	107	15MAY06	271			0.00	83,167.08
FY05CV-8	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				14,000.00	14,000.00
Job: 1361 - TF Fabrication-CHRZANOWSKI									
TF Fabrication Oversight									
131-031	Title III engr (FDR through 1st coil test 75%)	14MAR06	78*	30JUN06	355			0.00	67,476.10
131-032	Title III engr (completion of coils 10%)	02OCT06	285*	19NOV07	186			0.00	33,569.28
131-033	Winding operations field oversight	03OCT05	534*	19NOV07	186			0.00	25,986.34
TF Braze Qualification									
1351-512	Prepare braze samples	17OCT05*	15	04NOV05	309			0.00	10,256.00
1351-513	Develop brzae techniques	07NOV05	15	29NOV05	309			0.00	4,886.40
1351-514	Braze conductor samples	30NOV05	15	20DEC05	309			0.00	4,886.40
1351-515	Test brazed samples	21DEC05	15	18JAN06	309			0.00	10,256.00
Conductor Prep									
1351-547	Conductor Preparation	03JAN06*	21	31JAN06	311			0.00	27,363.84
Coil Winding									
1351-549	Wind Coil #1	14MAR06	33	27APR06	271			0.00	29,318.40
1351-551	Wind Coil #2	02OCT06*	15	20OCT06	187			0.00	22,469.40
1351-553	Wind Coil #3	23OCT06	15	10NOV06	187			0.00	16,644.00
1351-555	Wind Coil #4	13NOV06	15	05DEC06	187			0.00	16,644.00
1351-557	Wind Coil #5	06DEC06	15	03JAN07	187			0.00	6,657.60
1351-559	Wind Coil #6	04JAN07	15	24JAN07	187			0.00	6,657.60
1351-561	Wind Coil #7	25JAN07	15	14FEB07	187			0.00	6,657.60
1351-563	Wind Coil #8	15FEB07	15	07MAR07	187			0.00	6,657.60
1351-565	Wind Coil #9	08MAR07	15	28MAR07	187			0.00	6,657.60
1351-567	Wind Coil #10	29MAR07	15	18APR07	187			0.00	6,657.60
1351-569	Wind Coil #11	19APR07	15	09MAY07	187			0.00	6,657.60
1351-571	Wind Coil #12	10MAY07	15	31MAY07	187			0.00	6,657.60
1351-573	Wind Coil #13	01JUN07	15	21JUN07	187			0.00	6,657.60
1351-575	Wind Coil #14	22JUN07	15	12JUL07	187			0.00	6,657.60
1351-577	Wind Coil #15	13JUL07	15	02AUG07	187			0.00	6,657.60
1351-579	Wind Coil #16	03AUG07	15	23AUG07	187			0.00	6,657.60
1351-581	Wind Coil #17	24AUG07	15	13SEP07	187			0.00	6,657.60
1351-583	Wind Coil #18	14SEP07	15	04OCT07	187			0.00	6,705.39
Ground Wrap & Mold Application									
1351-649	GW & Apply Mold Coil #1	28APR06	12	15MAY06	271			0.00	13,030.40
1351-651	GW & Apply Mold Coil #2	23OCT06	7	31OCT06	231			0.00	9,986.40
1351-653	GW & Apply Mold Coil #3	13NOV06	7	21NOV06	223			0.00	7,489.80
1351-655	GW & Apply Mold Coil #4	06DEC06	7	14DEC06	215			0.00	7,489.80



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ECP-38 baseline
Progress Bar
Critical Activity

EC38

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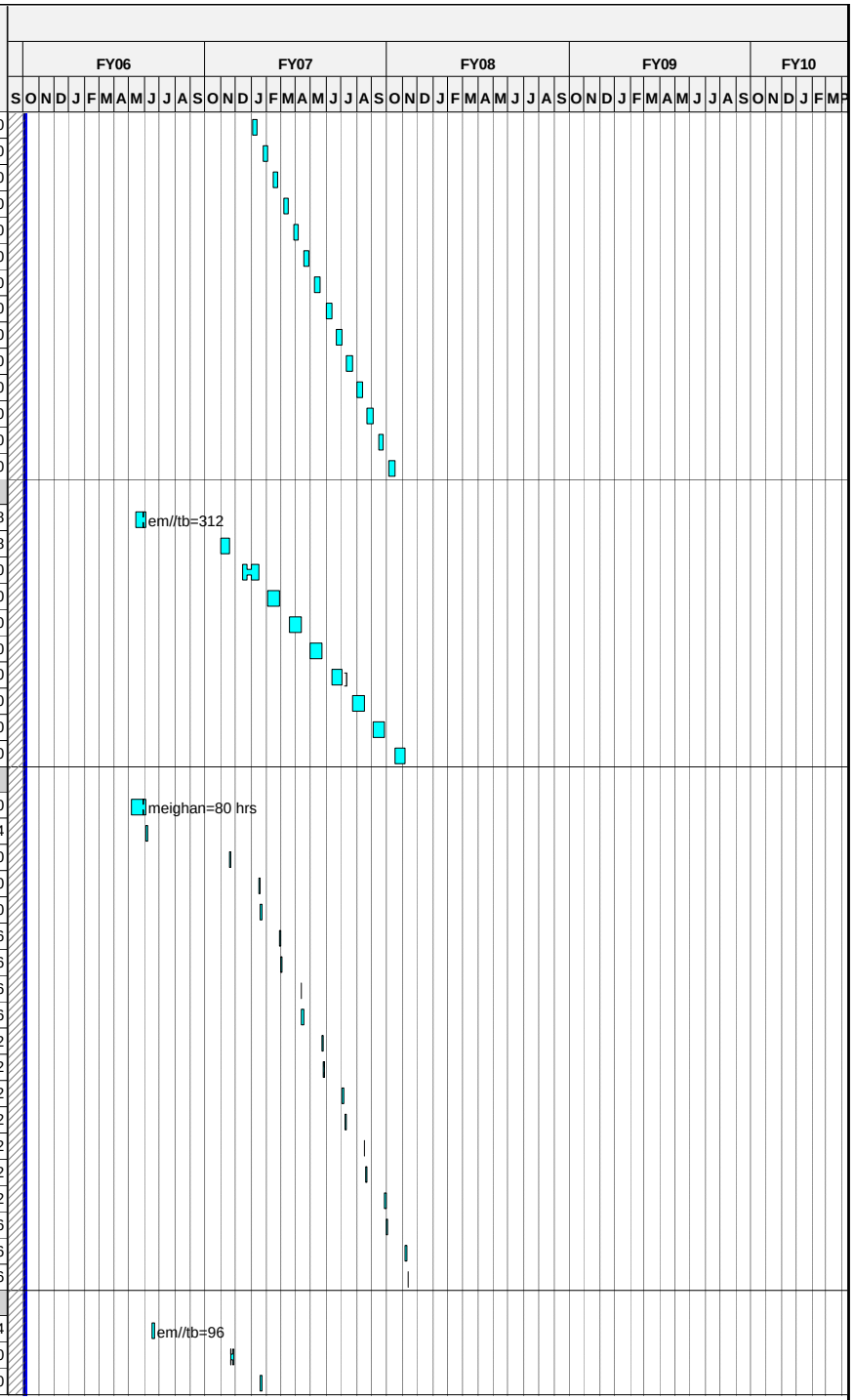
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
1351-657	GW & Apply Mold Coil #5	04JAN07	7	12JAN07	210			0.00	2,912.70
1351-659	GW & Apply Mold Coil #6	25JAN07	7	02FEB07	202			0.00	2,912.70
1351-661	GW & Apply Mold Coil #7	15FEB07	7	23FEB07	229			0.00	2,912.70
1351-663	GW & Apply Mold Coil #8	08MAR07	7	16MAR07	221			0.00	2,912.70
1351-665	GW & Apply Mold Coil #9	29MAR07	7	06APR07	216			0.00	2,912.70
1351-667	GW & Apply Mold Coil #10	19APR07	7	27APR07	208			0.00	2,912.70
1351-669	GW & Apply Mold Coil #11	10MAY07	7	18MAY07	203			0.00	2,912.70
1351-671	GW & Apply Mold Coil #12	01JUN07	7	11JUN07	195			0.00	2,912.70
1351-673	GW & Apply Mold Coil #13	22JUN07	7	02JUL07	221			0.00	2,912.70
1351-675	GW & Apply Mold Coil #14	13JUL07	7	23JUL07	213			0.00	2,912.70
1351-677	GW & Apply Mold Coil #15	03AUG07	7	13AUG07	208			0.00	2,912.70
1351-679	GW & Apply Mold Coil #16	24AUG07	7	03SEP07	200			0.00	2,912.70
1351-681	GW & Apply Mold Coil #17	14SEP07	7	24SEP07	195			0.00	2,912.70
1351-683	GW & Apply Mold Coil #18	05OCT07	7	15OCT07	187			0.00	2,991.10
VPI									
1351-751	VPI Coil #1	16MAY06	13	02JUN06	271			0.00	25,409.28
1351-752	VPI Coil #2	01NOV06	13	17NOV06	232			0.00	19,473.48
1351-755	VPI Coil #3 & #4	15DEC06	17	16JAN07	215			0.00	14,563.50
1351-759	VPI Coil #5 & #6	05FEB07	17	27FEB07	202			0.00	14,563.50
1351-763	VPI Coil #7 & #8	19MAR07	17	10APR07	221			0.00	6,241.50
1351-767	VPI Coil #9 & #10	30APR07	17	22MAY07	208			0.00	6,241.50
1351-771	VPI Coil #11 & #12	12JUN07	17	04JUL07	195			0.00	6,241.50
1351-775	VPI Coil #13 & #14	24JUL07	17	15AUG07	213			0.00	6,241.50
1351-779	VPI Coil #15 & #16	04SEP07	17	26SEP07	200			0.00	6,241.50
1351-783	VPI Coil #17 & #18	16OCT07	17	07NOV07	187			0.00	6,409.50
Electrical Test (warm before casting instl))									
1351-848	Prep & setup for warm test	05MAY06	20	02JUN06	358			0.00	10,256.00
1351-849	Warm Test Coil #1	05JUN06	2	06JUN06	358			0.00	1,303.04
1351-851	Warm Test Coil #2	20NOV06	2	21NOV06	251			0.00	832.20
1351-853	Warm Test Coil #3	17JAN07	2	18JAN07	220			0.00	832.20
1351-855	Warm Test Coil #4	19JAN07	2	22JAN07	227			0.00	832.20
1351-857	Warm Test Coil #5	28FEB07	2	01MAR07	202			0.00	665.76
1351-859	Warm Test Coil #6	02MAR07	2	05MAR07	203			0.00	665.76
1351-861	Warm Test Coil #7	11APR07	2	12APR07	242			0.00	665.76
1351-863	Warm Test Coil #8	13APR07	2	16APR07	243			0.00	665.76
1351-865	Warm Test Coil #9	23MAY07	2	24MAY07	218			0.00	499.32
1351-867	Warm Test Coil #10	25MAY07	2	29MAY07	220			0.00	499.32
1351-869	Warm Test Coil #11	05JUL07	2	06JUL07	195			0.00	499.32
1351-871	Warm Test Coil #12	09JUL07	2	10JUL07	196			0.00	499.32
1351-873	Warm Test Coil #13	16AUG07	2	17AUG07	234			0.00	499.32
1351-875	Warm Test Coil #14	20AUG07	2	21AUG07	235			0.00	499.32
1351-877	Warm Test Coil #15	27SEP07	2	28SEP07	210			0.00	499.32
1351-879	Warm Test Coil #16	01OCT07	2	02OCT07	212			0.00	512.76
1351-881	Warm Test Coil #17	08NOV07	2	09NOV07	187			0.00	512.76
1351-883	Warm Test Coil #18	12NOV07	2	13NOV07	188			0.00	512.76
Assemble TF Casting to TF coil									
1351-110A	Assemble TF to Wedge Casting TF#1	15JUN06	6	22JUN06	358			0.00	7,818.24
1351-115A	Assemble TF to Wedge Casting TF#2	22NOV06	3	28NOV06	251			0.00	5,825.40
1351-120A	Assemble TF to Wedge Casting TF#3	19JAN07	3	23JAN07	220			0.00	4,577.10



Run Date 25OCT05 11:35

ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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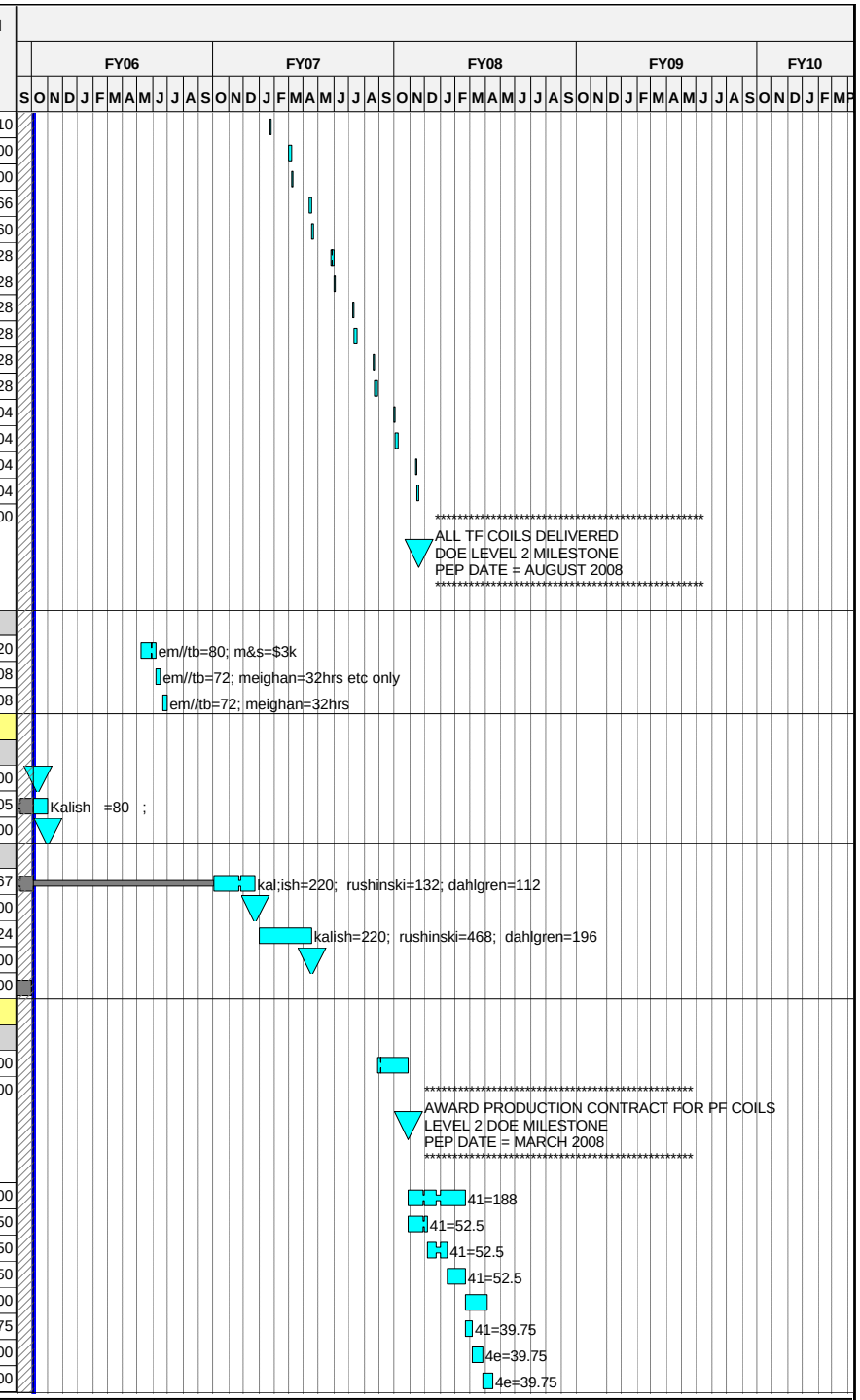
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
1351-125A	Assemble TF to Wedge Casting TF#4	24JAN07	3	26JAN07	226			0.00	4,577.10
1351-130A	Assemble TF to Wedge Casting TF#5	02MAR07	3	06MAR07	202			0.00	4,161.00
1351-135A	Assemble TF to Wedge Casting TF#6	07MAR07	3	09MAR07	202			0.00	4,161.00
1351-140A	Assemble TF to Wedge Casting TF#7	13APR07	3	17APR07	242			0.00	249.66
1351-145A	Assemble TF to Wedge Casting TF#8	18APR07	3	20APR07	242			0.00	2,496.60
1351-150A	Assemble TF to Wedge Casting TF#9	25MAY07	3	30MAY07	218			0.00	1,997.28
1351-155A	Assemble TF to Wedge Casting TF#10	31MAY07	3	04JUN07	219			0.00	1,997.28
1351-160A	Assemble TF to Wedge Casting TF#11	09JUL07	3	11JUL07	195			0.00	1,997.28
1351-165A	Assemble TF to Wedge Casting TF#12	12JUL07	3	16JUL07	195			0.00	1,997.28
1351-170A	Assemble TF to Wedge Casting TF#13	20AUG07	3	22AUG07	234			0.00	1,997.28
1351-175A	Assemble TF to Wedge Casting TF#14	23AUG07	3	27AUG07	234			0.00	1,997.28
1351-180A	Assemble TF to Wedge Casting TF#15	01OCT07	3	03OCT07	210			0.00	2,051.04
1351-185A	Assemble TF to Wedge Casting TF#16	04OCT07	3	08OCT07	211			0.00	2,051.04
1351-190A	Assemble TF to Wedge Casting TF#17	12NOV07	3	14NOV07	187			0.00	2,051.04
1351-195A	Assemble TF to Wedge Casting TF#18	15NOV07	3	19NOV07	187			0.00	2,051.04
1351-195X	ALL TF COILS DELIVERED		0	19NOV07	187			0.00	0.00
Final Test (cold after casting installation)									
1351-901	Build Cryostat for teststand to hold TF coil	09MAY06	20	06JUN06	358			0.00	10,628.20
1351-905	Cold test #1 BEFORE casting applied	07JUN06	6	14JUN06	358			0.00	9,966.08
1351-910	Cold test #1 again AFTER casting applied	23JUN06	6	30JUN06	358			0.00	9,966.08
Job: 1302 - PF and CS Design -KALISH									
TF I&C									
133-008	Design WBS 134 Conv Coil I&C Peer review		0	12OCT05*	1,002		10	0.00	0.00
133-010	Design WBS 134 Conv Coil I&C	01MAR05A	172*	31OCT05	695		10	1,330.61	13,306.05
133-011	Design WBS 134 Conv Coil I&C FDR		0	31OCT05*	989		10	0.00	0.00
1302-PF	PF& CS Support Preliminary Design	01JUN05A	145*	22DEC06	167		25	19,758.17	79,032.67
141-012	PF & CS Sprt PDR		0	22DEC06	167			0.00	0.00
1302-CSS	PF & CS Support Final Design	02JAN07	75	16APR07	167			0.00	157,228.24
1301-137	PF & CS Support FDR		0	16APR07	167			0.00	0.00
FY05CV-6	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				-22,000.00	-22,000.00
Job: 1352 - PF Coil Procurement-KALISH									
PF Coil Fabrication									
141-035	Bid & Award PF Coils	27AUG07*	45	29OCT07	124			0.00	0.00
141-036	PF Coils Awarded		0	29OCT07	124			0.00	0.00
1352-100	Material & leads	30OCT07	75	21FEB08	124			0.00	264,140.00
1352-110	Tooling for PF 4	30OCT07*	25	05DEC07	159			0.00	73,762.50
1352-115	Tooling for PF 5	06DEC07	25	17JAN08	159			0.00	73,762.50
1352-120	Tooling for PF 6	18JAN08	25	21FEB08	174			0.00	73,762.50
1352-105	Tooling for PF 1,2 and 3 NOT REQ"D USE PF1a	22FEB08	30	03APR08	174			0.00	0.00
1352-140	Fabricate/Dlvr PF 4 lower	22FEB08	10	06MAR08	124			0.00	55,848.75
1352-145	Fabricate/Dlvr PF 5 lower	07MAR08	15	27MAR08	124			0.00	41,817.00
1352-150	Fabricate/Dlvr PF 6 lower	28MAR08	15	17APR08	124			0.00	41,817.00



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ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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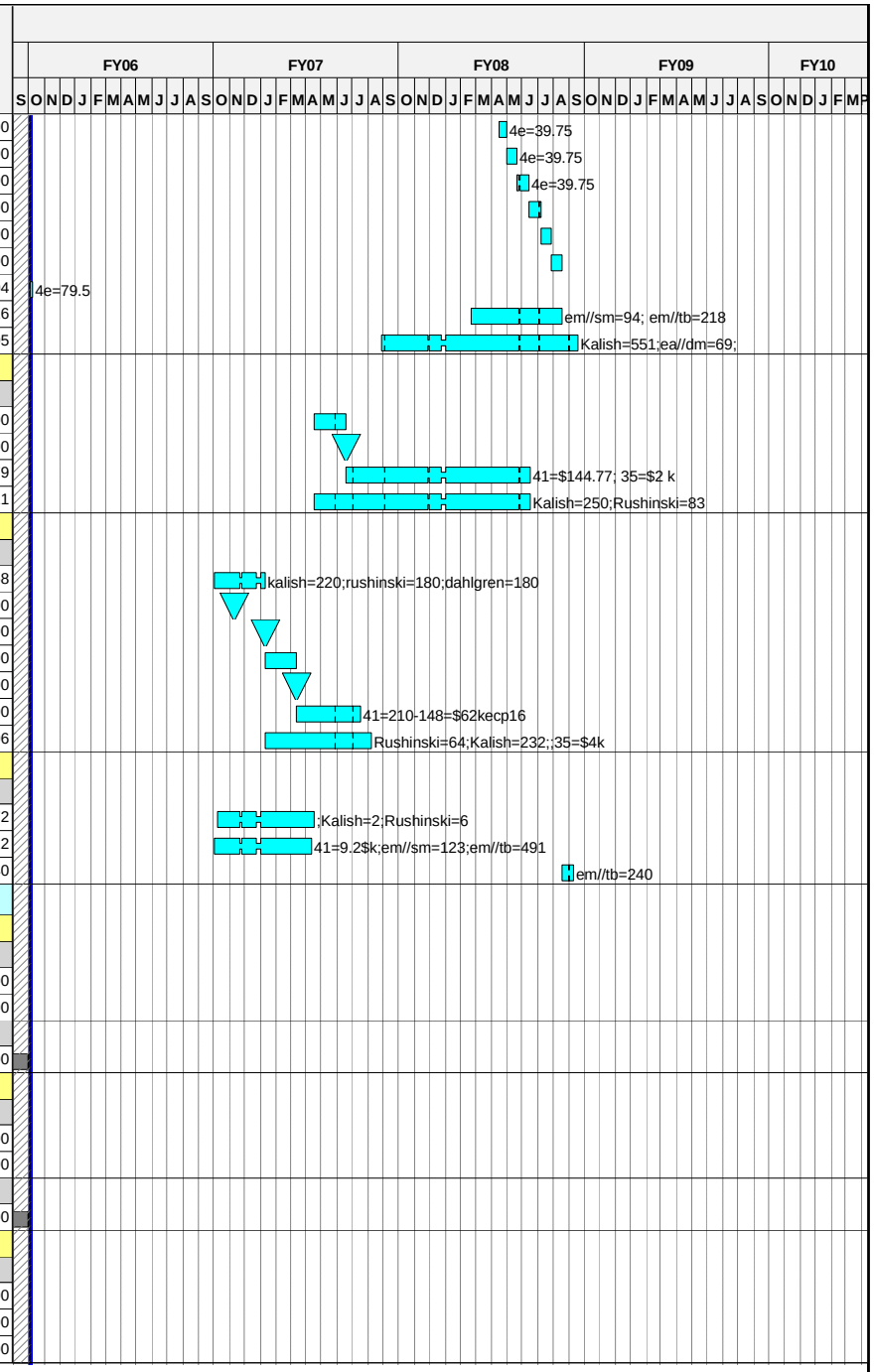
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
1352-155	Fabricate/Dlvr PF 4 upper	18APR08	10	01MAY08	124			0.00	41,817.00
1352-160	Fabricate/Dlvr PF 5 upper	02MAY08	15	22MAY08	124			0.00	41,817.00
1352-165	Fabricate/Dlvr PF 6 upper	23MAY08	15	13JUN08	124			0.00	41,817.00
1352-125	Fabricate/Dlvr PF 1 NOT REQD USE PF1a	16JUN08	15	07JUL08	124			0.00	0.00
1352-130	Fabricate/Dlvr PF 2 NOT REQD USE PF1a	08JUL08	15	28JUL08	124			0.00	0.00
1352-135	Fabricate/Dlvr PF 3 NOT REQD USE PF1a	29JUL08	15	18AUG08	124			0.00	0.00
1352-135X	Refurbish NSTX PF1a	03OCT05	5	07OCT05	838			0.00	1,303.04
722.010	PF Coil receipt inspect/test (formerly wbs 183)	22FEB08	125*	18AUG08	124			0.00	31,275.16
141-031	Title III engr WBS 132	27AUG07*	268	19SEP08	268			0.00	112,977.05
Job: 1353 - CS Structure Procurement-KALISH									
CS Support Structure									
163-035	Bid & Award CS Support Struct	17APR07	45	19JUN07	167			0.00	0.00
163-036.9	Award CS Support Structure		0	19JUN07*	167			0.00	0.00
163-037	CS Support Structure Procurement/Fab	20JUN07*	249	17JUN08	167			0.00	205,571.79
163-015	Title III design CS sprt struc	17APR07	294	17JUN08	334			0.00	60,193.11
Job: 1354 - Trim Coil Procurement-KALISH									
Trim Coils									
1303-TRIM	Trim Coil Design	02OCT06*	65	10JAN07	123			0.00	42,330.68
1303-136	Trim Coil PDR		0	10NOV06	123			0.00	0.00
1303-137	Trim Coil FDR		0	10JAN07	123			0.00	0.00
184-035	Bid & Award Ext Trim Coils	11JAN07	45	14MAR07	123			0.00	0.00
184-036	Award External Trim Coils		0	14MAR07*	123			0.00	0.00
184-037	External Trim Coil Procurement/Fab*ecp16	15MAR07	87	17JUL07	123			0.00	34,275.00
184-015	Title III WBS 133 Rxt Trim Coils	11JAN07	147	07AUG07	549			0.00	26,834.06
Job: 1355 - WBS 13 I&C Proc & Coil Assy-KALISH									
TF/PF Loacl I&C									
133-015	Title III WBS 134 Conv Coil I&C	09OCT06*	130	18APR07	626			0.00	1,141.72
133-037	Conv Coil I&C WBS 134 Proc & Install	02OCT06*	130	11APR07	467			0.00	69,587.22
1355-100	CS and PF 1a Pre-Assy incl coil I&C	19AUG08	15	09SEP08	124			0.00	20,510.40
14 - Modular Coils									
Job: 1401 - Mod Coil Prel.DsnCLOSED****									
Prior Costs									
1401-002	Apr-Sept MIE Cost ORNL	01APR03A	64*	30SEP03A			100	303,040.00	303,040.00
1401-003	Apr-Sept MIE Cost PPPL	01APR03A	64*	30SEP03A			100	0.00	0.00
FY05CV-9	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				1,000.00	1,000.00
Job: 1402 - Mod.Coil AnalysesCLOSED****									
Prior Costs									
1402-002	Apr-Sept MIE Cost ORNL	01APR03A	64*	30SEP03A			100	84,220.00	84,220.00
1402-003	Apr-Sept MIE Cost PPPL	01APR03A	64*	30SEP03A			100	154,920.00	154,920.00
FY05CV-10	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				0.00	0.00
Job:1404-MCWF R&D & 1st Prod CastingCLOSED****									
Prior Costs									
1404-002	Apr-Sept YTD MIE Cost ORNL	01APR03A	64*	30SEP03A			100	100,220.00	100,220.00
1404-003	Apr-Sept YTD MIE Cost PPPL	01APR03A	64*	30SEP03A			100	64,670.00	64,670.00
1404-ECP16	ecp16	01OCT03A	64*	30SEP04A			100	93,000.00	93,000.00



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ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
Prototype Design Issues									
1404-109.J	JOULE MILESTONE #1-Authorize Prototype Fab		0	20OCT03A			100	0.00	0.00
1404-110.J	JOULE MILESTONE #3-Prototype Casting Made		0	28MAY04A			100	0.00	0.00
3000	Issue Type C final drawings to EIO & JPP		0	30SEP04A			100	0.00	0.00
1404-65	Fabrication oversight by Project	01OCT03A	213*	30JUN04A			100	132,000.00	132,000.00
1404-66	Proposal evaluation & contract oversight	01AUG04A	43*	30SEP04A			100	15,292.26	15,292.26
EIO Subcontract (S04341F)									
1404-100	EIO-Cost FY03	01MAY03A	10	30SEP03A			100	323,952.72	323,952.72
1404-105	EIO-FY04 Cost Through June 30,2004 ECP 11	01OCT03A	10*	30JUN04A			100	571,337.28	571,337.28
1404-106	contract balance ECP 11	01JUL04A	0*	31AUG04A			100	119,610.00	119,610.00
1404-107	EIO-Suspend Prototype work ECP 11		0	06AUG04A			100	0.00	0.00
3010	Vendor #1 Contract Amended	09AUG04A	0*	13AUG04A			100	0.00	0.00
PPC-1	Engr & Flow Solidification	01SEP04A	42*	15OCT04A			100	21,570.00	21,570.00
PPC-2	Lawton mold Assy	22SEP04A	69*	23DEC04A			100	227,630.00	227,630.00
PPC-3	Materials	01NOV04A	41*	23DEC04A			100	39,150.00	39,150.00
PPC-4	Build Pattern & Pour Casting	01DEC04A	0*	31DEC04A			100	16,610.00	16,610.00
PPC-5	Clean/Inspect Heat treat Casting	01DEC04A	4	31DEC04A			100	0.00	0.00
PPC-5C	contract resolution setaside	01DEC04A	4*	31DEC04A			100	30,000.00	30,000.00
PPC-6	Oversight/Reporting	04AUG04A	103*	31DEC04A			100	27,040.00	27,040.00
JP Pattern Subcontract (S04340F)									
1404-200	JPP- cost FY03	01MAY03A	10	30SEP03A			100	97,206.20	97,206.20
1404-205	JPP-FY04 Cost Through June 30,2004 ECP 11	01OCT03A	10*	30JUN04A			100	417,120.34	417,120.34
1404-206	JPP- July forecast ECP 11	01JUL04A	0*	31AUG04A			100	143,372.50	143,372.50
3110	Contract balance	30SEP04A	2*	30SEP04A			100	74,000.00	74,000.00
MCWF Fracture Analysis									
1404-FR1	Rough machine specimens, Lot 1 (17 pcs.) at	15JUL04A	10	29JUL04A			100	1,266.84	1,266.84
1404-FR2	Machine Lot 1 specimens to ASTM spec (Crystal	02AUG04A	10	20AUG04A			100	1,082.90	1,082.90
1404-FR3	Test Lot 1 specimens - 17 pcs. At $260	20AUG04A	50*	29OCT04A			100	5,644.07	5,644.07
1404-FR4	Rough machine Lot 2 (11 specimens) at PPPL	16AUG04A	54*	29OCT04A			100	819.72	819.72
1404-FR5	Machine Lot 2 specimens to ASTM spec.	01OCT04A	10	29OCT04A			100	960.75	960.75
1404-FR6	Test Lot 2 specimens @NHMFL 11 pcs.	01OCT04A	20	29OCT04A			100	3,663.66	3,663.66
1404-FR7	Engineering coordination	15JUL04A	76*	29OCT04A			100	6,298.82	6,298.82
FY05CV-12	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				10,000.00	10,000.00
Job: 1413 -MCWF Fracture Analysis-CLOSED****									
1413-100	Oversight	01MAR05A	35	31MAR05		$6,716	100	6,610.00	6,610.00
1413-110	Cut 3 discs from proto;cut 1 into qrts (MTM)	01MAR05A	5	31MAR05		$9,167	100	7,686.00	7,686.00
1413-120	Weld quartered discs (Metal Tek)	01MAR05A	3	31MAR05		$1,222	100	1,127.28	1,127.28
1413-130	Machine test blanks (PPPL)	01MAR05A	7	31MAR05		$3,182	100	2,980.80	2,980.80
1413-140	Wire EDM 12 specimens (Crystal)	01MAR05A	5	31MAR05		$833	100	768.60	768.60
1413-150	Perform fracture tests (NHMFL)	28APR05A	0	29APR05A		$4,333	100	3,996.72	3,996.72
FY05CV-24	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				5,000.00	5,000.00
Job: 1405-Mod Coil Winding R&D Prep-CLOSED****									
Prior Costs									
1405-002	Apr-Sep YTD MIE Cost ORNL	01APR03A	64*	30MAY03A				0.00	0.00
1405-003	Apr-Sep YTD MIE Cost PPPL	01APR03A	64*	30MAY03A				168,070.00	168,070.00

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ECP-38 baseline
Progress Bar
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EC38

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FY05CV-13	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				0.00	0.00
Job: 1407 -Mod Coil Winding Facility-CLOSED****									
Oversight and Supervision									
1407-002	Winding Facility, Tooling, Materials Oversight	01OCT03A	186*	28MAY04A			100	165,486.00	165,486.00
1407.002.2	Winding Facility, Tooling, Materials Oversight	01JUN04A	86*	30SEP04A			100	110,052.00	110,052.00
1407.002.3	Winding Facility, Tooling, Materials Oversight	01OCT04A	0*	29OCT04A			100	19,169.00	19,169.00
1407-002.1	Prep Winding Facility Ops Plan(reqd for TRT	01NOV04A	10	30NOV04A			100	0.00	0.00
Autoclave									
1407-005	Domes & cylinder Fab & Deliver (PE4226)	01DEC03A	18	23DEC03A			100	20,167.42	20,167.42
1407-006.2	Blower/Elec HW- Fab & Deliver (PE 4218)	31OCT03A	18	31OCT03A			100	509.60	509.60
1407-008	Remaining Autoclave components-Deliver	01OCT03A	49	31MAR04A			100	11,466.00	11,466.00
1407-011	Fabricate Autoclave	01OCT03A	128*	31MAR04A			100	159,096.96	159,096.96
1407-011.1	Autoclave assembly	01JUL04A	26*	06AUG04A			100	17,884.80	17,884.80
1407-011.2	Rebuild vacuum pumps (2)	01AUG04A	15	31AUG04A			100	17,884.80	17,884.80
1407-012	Autoclave PTP	01SEP04A	5	30SEP04A			100	8,395.20	8,395.20
1407.011.3	Fab & Install vacuum lines	01AUG04A	15	31AUG04A			100	17,884.80	17,884.80
1407.011.4	Instl insulation on autoclave	02AUG04A	14	31AUG04A			100	16,692.48	16,692.48
1407.011.5	Write autoclave PTP	01JUN04A	9	31AUG04A			100	811.20	811.20
Prior Costs									
1407-001	Apr-Sep YTD MIE Cost PPPL	01APR03A	64*	30SEP03A			100	267,550.00	267,550.00
1407-ECP16	ecp16	01OCT03A	64*	30SEP04A			100	507,000.00	507,000.00
Area Preparation									
1407-200	Decon TFTR test Cell Crane	26NOV03A	20	26NOV03A			N/R	17,884.80	17,884.80
1407-202	Setup facility stations	01MAR04A	118*	28MAY04A			100	28,477.80	28,477.80
1407-204	Build cleanrooms (2) locations	02FEB04A	128*	28MAY04A			100	90,414.50	90,414.50
1407-204.2	Build cleanroom (1 add'l) **2nd line**	02FEB04A	171*	28MAY04A			100	31,911.00	31,911.00
Design Activities									
1407-003	Winding Facility, Tooling, Design	01OCT03A	207*	28MAY04A			100	111,438.60	111,438.60
1407-003.1	Facility Drawings	01JUN04A	14*	18JUN04A			100	10,140.00	10,140.00
1407-003.2	Final Drawings for winding clamps	21JUN04A	10*	30JUN04A			100	8,112.00	8,112.00
1407-003.3	Final Drawings -type C casting supports	12JUL04A	5*	16JUL04A			100	4,056.00	4,056.00
1407-003.4	Final Drawings -casting to ring fixture	02AUG04A	43*	30SEP04A			100	6,489.60	6,489.60
1407-003.5	Final Drawings -Type A casting supports	29JUL04A	24*	31AUG04A			100	6,489.60	6,489.60
1407-003.6	Final Drawings -Type B casting supports	10AUG04A	11*	24AUG04A			100	8,112.00	8,112.00
1407-003.7	Final Drawings -casting stud fixture	01AUG04A	0*	31AUG04A			100	2,433.60	2,433.60
1407-003.8	Misc Drawings (ecn's etc)	01AUG04A	54*	30SEP04A			100	12,168.00	12,168.00
1407-003.9	Electrical design support/oversight	01JUN04A	86*	31AUG04A			100	10,140.00	10,140.00
Remaining fixtures & tooling									
1407-100	Fabricate turning fixtures and coil supports	01DEC03A	166*	28MAY04A			100	240,604.00	240,604.00
1407-100.2	Fabr turning fixt&coil supports **2nd line**	02FEB04A	128*	28MAY04A			100	128,200.80	128,200.80
1407-110	Fabricate Winding clamp sets (125)	01MAY04A	40	28MAY04A			100	40,351.20	40,351.20
1407-115	Fabricate Conductor payout spool system	01MAR04A	119*	28MAY04A			100	92,288.48	92,288.48
1407-115.2	Fabr Conduct payout spool syst ** 2nd line**	01JUN04A	65*	31AUG04A			100	13,078.00	13,078.00
1407-128	Setup facility stations 2&5	01JUN04A	86*	30SEP04A			100	11,923.20	11,923.20
1407-130	Misc tools & equipt FY04	02FEB04A	171*	30SEP04A			100	29,692.00	29,692.00
1407-100.3	Fab & Instl Turning Fixt 2,3&4	01JUN04A	107*	30SEP04A			100	172,481.40	172,481.40
1407-100.4	Electr hookup turning fixtures 2,3&4	01AUG04A	64*	30SEP04A			100	7,552.44	7,552.44
1407-110.2	Compl Fabr Winding clamp sets (100 of 400)	12JUL04A	58*	30SEP04A			100	23,834.80	23,834.80

FY06 FY07 FY08 FY09 FY10

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 N D J F M A M J J 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 N D J F M

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Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
1407-125	Fab Type C casting supports (6) sets	02AUG04A	15	30SEP04A			100	9,538.56	9,538.56
1407-126	Fab Type A casting supports (6) sets	02AUG04A	65*	30SEP04A			100	6,706.80	6,706.80
1407-127	Fab Type B casting supports (6) sets	02AUG04A	65*	30SEP04A			100	2,384.64	2,384.64
1407-135	construct cleanroom mech and electrical	01JUN04A	22*	30JUN04A			100	23,846.40	23,846.40
1407-199	Winding Facility ACC Rvw stations 2&5		0	15OCT04A			100	0.00	0.00
VPI Preparations									
1407-105	Anchor VPI platforms	01JUN04A	4*	30JUN04A			100	5,961.60	5,961.60
1407-106	Instl electric to VPI platforms & cntrl panel	01AUG04A	0*	31AUG04A			100	23,846.40	23,846.40
1407-108	Mount mixing tanks onto VPI platforms	01SEP04A	2	30SEP04A			100	2,384.64	2,384.64
FY05CV-16	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				23,000.00	23,000.00
Job: 1412 - Complete Winding Facilities-*CLOSED*									
Remaining fixtures & tooling									
1407-100.5	Complete Fab & Instl Turning Fixt 4	23DEC04A	15	23DEC04A			100	19,152.28	19,152.28
1407-100.6	Complete Electr hookup turning fixtures 4	23DEC04A	15	23DEC04A			100	3,231.72	3,231.72
1407-110.3	Compl Fabr Winding clamp sets (300 of 400)	01JAN05A	97*	28FEB05A			100	71,388.48	71,388.48
1407-124	Fab casting to ring assy fixture station 1	01OCT04A	34	29OCT04A			100	21,004.00	21,004.00
1407-124.5	Electrical Installations	01OCT04A	0*	29OCT04A			100	20,269.44	20,269.44
1407-126.1	Complete Fab Type A casting supports (6) sets	01OCT04A	163*	31MAR05A			100	17,735.76	17,735.76
1407-130.1	Misc tools & equipt FY05	01OCT04A	142*	29APR05A			100	29,820.80	29,820.80
1408-999	3rd winding line conductor payout sys	01NOV04A	144*	23DEC04A			100	66,280.88	66,280.88
1412-199	Complete Winding Facility ACC Review		0	31MAY05A			100	0.00	0.00
1407-127.1	Complete Fab Type B casting supports (6) sets	01OCT04A	163	30JUN05A			100	33,235.92	33,235.92
1407ECP36	ECP36 job closeout cost variance	01OCT04A	186*	01JUL05A			100	230,000.00	230,000.00
VPI Preparations									
1407-107	Perform epoxy mixing trials with delivery sys	01NOV04A	37*	23DEC04A			100	5,961.60	5,961.60
1407-109	Fab & assemble VPI delivery sys	01OCT04A	58*	23DEC04A			100	22,356.00	22,356.00
FY05CV-17	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				-3,000.00	-3,000.00
Job: 1406 - Mod. Coil Winding R&D-CLOSED****									
Oversight & Supervision									
1406-049	Increased cost of FDR support ECP 11	01OCT03A	20	28MAY04A			100	292,000.00	292,000.00
1406-000	Supervision & Oversight	01OCT03A	180	28MAY04A			100	104,443.80	104,443.80
1406-000.1	Supervision & Oversight	04JUN04A	86*	05OCT04A			100	112,391.38	112,391.38
1406-000.2	Supervision & Oversight	01OCT04A	58*	23DEC04A			100	38,566.68	38,566.68
1406-048	Testing & Strain Gauge Design	01OCT03A	20	31OCT03A			100	24,159.54	24,159.54
Keystone R&D									
1406-001	Purchase 10 spools conductor (twisted	03NOV03A	40*	23DEC03A			100	7,644.00	7,644.00
1406-003	Purchase 8 spools conductor (long twisted	03NOV03A	40*	23DEC03A			100	7,644.00	7,644.00
1406-005	Purchase epoxy & Insulation	03NOV03A	163*	30JUN04A			100	5,516.42	5,516.42
1406-010	Keystone Test for New Conductor	02JAN04A	41*	27FEB04A			100	5,961.60	5,961.60
1406-011	Purchase add'l copper Conductor	01MAR04A	45*	30APR04A			100	8,918.00	8,918.00
Twisted Racetrack Hardware Fabrication									
1406-014	Bid, Evaluate and Award Casting to EIO or JPP	01DEC03A	28	23DEC03A			100	0.00	0.00
1406-016.5	PPPL Fabricate TRC Cladding	01SEP04A	79*	23DEC04A			100	3,067.62	3,067.62
1406-016.8	order trc clamps	29JUN04A	1	29JUN04A			100	0.00	0.00
1406-016.9	fab trc clamps	02AUG04A	37	31AUG04A			100	24,206.00	24,206.00
1406-016.A	fab trc lead components	01AUG04A	121*	31JAN05A			100	10,922.77	10,922.77

Run Date 25OCT05 11:35

ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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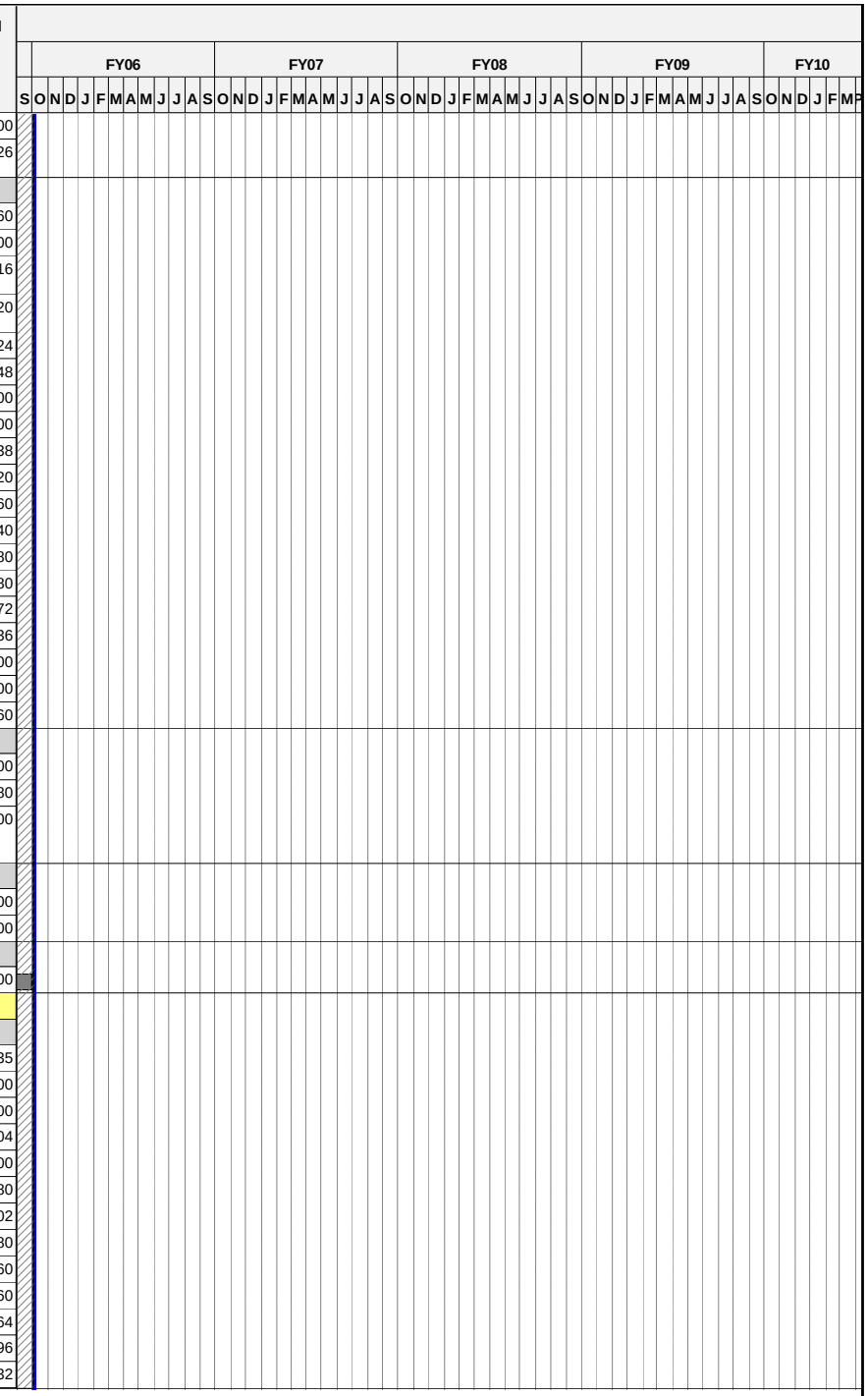
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
1406-016.B	write procedures, doc mit/qa plan	09JUN04A	138*	23DEC04A			100	0.00	0.00
1406-016	Procure casting from EIO (new scope)	02FEB04A	150*	31AUG04A			100	127,387.26	127,387.26
Testing									
1406-029	Fab New Specimen Molds	01DEC03A	107*	30APR04A			100	22,809.60	22,809.60
1406-029.1	Design samples	01MAR04A	15	31MAR04A			100	0.00	0.00
1406-030	Fab & Pot samples	26JAN04A	108*	28MAY04A			100	30,404.16	30,404.16
1406-031	Prep fixtures and test equipt	03NOV03A	141	28MAY04A			100	69,061.20	69,061.20
1406-032	Test samples	01MAR04A	65	28MAY04A			100	51,018.24	51,018.24
1406-50	Fab Straight Tee Specimen	21JUN04A	14*	30JUN04A			100	16,692.48	16,692.48
1406-51	VPI Tee specimen	12JUL04A	37*	31AUG04A			100	7,452.00	7,452.00
1406-52	Ship Tee specimen to ORNL	31AUG04A	5	31AUG04A			100	637.00	637.00
1406-54	Complete shear modulus & cyclic testing	01JUN04A	125*	30SEP04A			100	32,165.38	32,165.38
1406-55	Fab chill plate specimens	01JUN04A	24	30JUN04A			100	12,560.20	12,560.20
1406-56	test chill plate specimens	01AUG04A	0*	31AUG04A			100	5,961.60	5,961.60
1406-57	fab cooling tube/chill plate assy	01AUG04A	5	31AUG04A			100	6,216.40	6,216.40
1406-58	fab MC lead braze specimens	01AUG04A	5	29OCT04A			100	2,980.80	2,980.80
1406-100	Single conductor torsion test	01OCT04A	41*	30NOV04A			100	6,416.80	6,416.80
1406-200	Transverse compression at LN2	01OCT04A	58*	23DEC04A			100	2,566.72	2,566.72
1406-210	Dogbone test @RT	01OCT04A	5	29OCT04A			100	1,283.36	1,283.36
1406-299	Closeout cost for testing ECP-21	01OCT03A	25	30SEP04A			100	239,000.00	239,000.00
1406-215	4 turn racetrack fatigue tests	01JAN05A	63*	31MAR05A			100	40,105.00	40,105.00
1406-033	Prepare Test report	01MAR05A	10	31MAR05A			100	12,833.60	12,833.60
"inchworm" Twisted Winding									
1406-119	Join straight sections w/2 end loops	01OCT03A	79*	30JAN04A			100	31,590.00	31,590.00
1406-120	Wind Conductor	30JAN04A	86*	28MAY04A			100	17,884.80	17,884.80
1406-040	JOULE MILESTONE #2-Begin winding on 3D surface	30JAN04A	0				100	0.00	0.00
Prior Costs									
1406-0002	Apr-Sep YTD MIE Cost ORNL	01APR03A	64*	30SEP03A			100	0.00	0.00
1406-0003	Apr-Sep YTD MIE Cost PPPL	01APR03A	64*	30SEP03A			100	831,120.00	831,120.00
FY05CV-14	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				33,000.00	33,000.00
Job: 1410 MC Twisted Racetrack Fabr-CLOSED****									
Twisted Racetrack Hardware Fabrication									
1406-016.0	Oversight & Supervision	01NOV04A	20	28FEB05A			100	63,337.35	63,337.35
1406-01601	ECP-29	01OCT04A	55*	31MAR05A			100	400,000.00	400,000.00
1406-01603	ECP-36 job closeout cost variance		84*	29JUL05A			100	305,000.00	305,000.00
1403-017.D	Wind layer #1 9 turns Side b	24JAN05A	31*	28FEB05A			100	3,875.04	3,875.04
1406-016.1	Inspect & Measure Casting	01OCT04A	20	29OCT04A			100	0.00	0.00
1406-016.2	Install Studs	01NOV04A	5	30NOV04A			100	2,980.80	2,980.80
1406-016.6	PPPL Fabricate TRC Chill plates	21FEB05A	12*	28FEB05A			100	1,381.02	1,381.02
1406-016.7	Finish TRC Chill plates	01MAR05A	5	30MAR05A			100	4,261.80	4,261.80
1406-017	Instl cladding(station 2) Side A	01DEC04A	23*	23DEC04A			100	5,961.60	5,961.60
1406-017.1	Instl grnd wrap Side b	20DEC04A	37*	31DEC04A			100	9,687.60	9,687.60
1406-017.C	Position & prep 1st coil lead set Side b	01JAN05A	5	03JAN05A			100	2,384.64	2,384.64
1406-017.F	Position Ground wrap onto winding form Side a	24JAN05A	8*	28FEB05A			100	3,576.96	3,576.96
1406-017.G	Reposition Coil Side a	28FEB05A	1	28FEB05A			100	1,192.32	1,192.32



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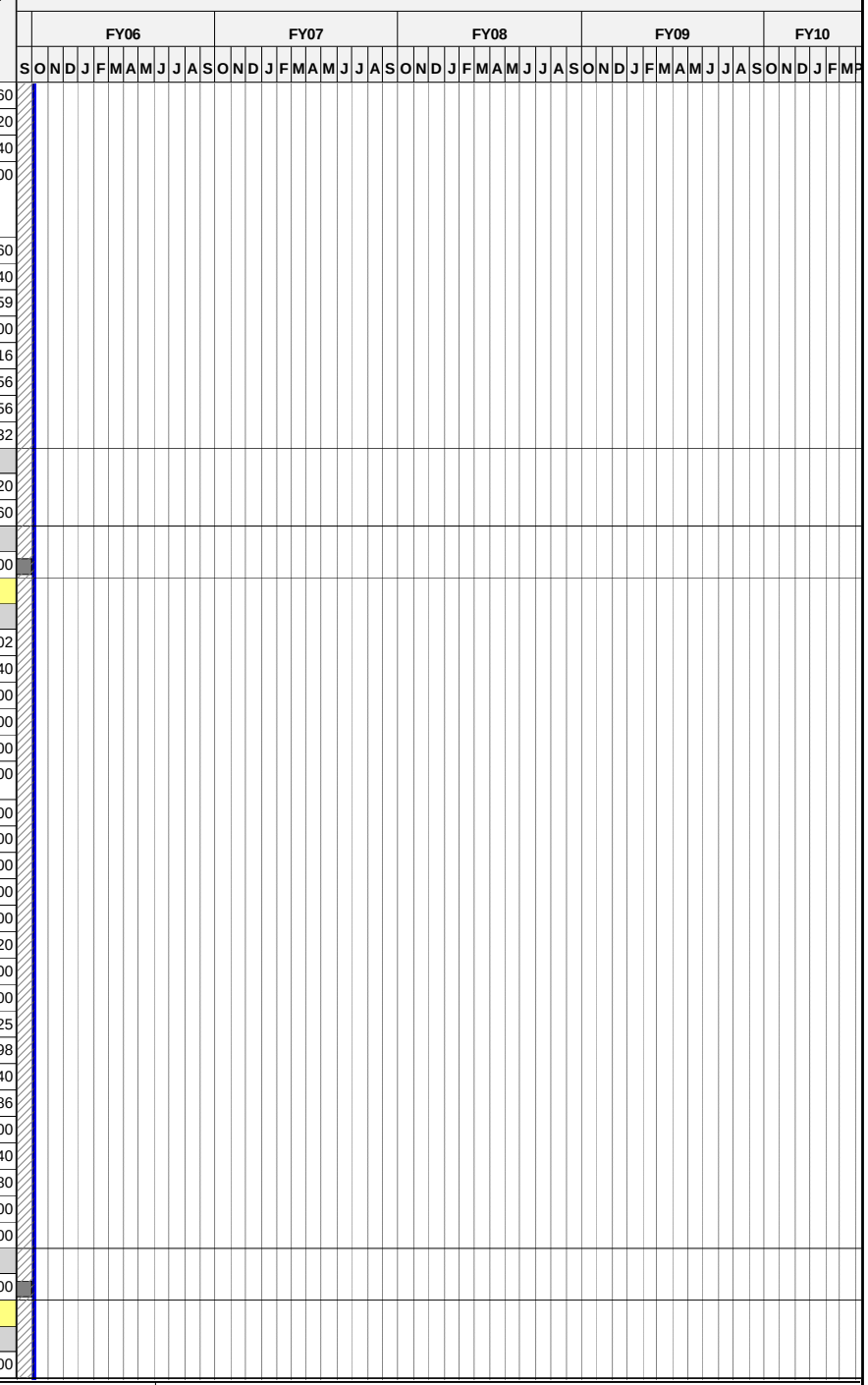
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
1406-017B	Instl cladding(station 2) Side B	03JAN05A	3*	31JAN05A			100	5,961.60	5,961.60
1406-106.3	Winding Trials (wo/ cladding)	01NOV04A	37*	23DEC04A			100	11,923.20	11,923.20
1406-01609	Rework Lead Blocks	01MAR05A	10	30MAR05A			100	29,946.40	29,946.40
1406-017.3	Cmplt Assy of twisted racetrack (Joule milestone		0	30MAR05A			100	0.00	0.00
1406-017.H	complete coil winding	01MAR05A	0*	30MAR05A			100	35,769.60	35,769.60
1406-017.J	Instl diag loops & chill plates	01MAR05A	10	30MAR05A			100	23,846.40	23,846.40
1406-01602	Oversight & Supervision	01APR05A	64*	30JUN05A			100	76,227.59	76,227.59
1406-01608	Coil Clamps	01MAY05A	43*	30JUN05A			100	24,339.00	24,339.00
1406-018	Pre-VPI Press test &Apply bag mold	11APR05A	31	31MAY05A			100	15,500.16	15,500.16
1406-019	VPI TRC in autoclave	02MAY05A	51*	17JUN05A			100	24,442.56	24,442.56
1406-019.1	Instl permanent clamps	20JUN05A	9	27JUN05A			100	9,538.56	9,538.56
1406-019.2	Electrical & Pressure tests	28JUN05A	1	30JUN05A			100	1,192.32	1,192.32
Straight Tee Specimen									
1406-ST1	Fab Straight Tee Specimen	01OCT04A	78*	31JAN05A			100	11,923.20	11,923.20
1406-ST2	Straight Tee VPI Prep	01JAN05A	40*	28FEB05A			100	5,961.60	5,961.60
FY05CV-15	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				-30,000.00	-30,000.00
Job: 1409 - Coil Test Stand-GETTELFINGER*CLOSED*									
Test Stand									
1409-000	FY04 Oct-Mar	20OCT03A	66*	31MAR04A			100	213,546.02	213,546.02
1409-025	Complete Design	01APR04A	0*	30APR04A			100	25,958.40	25,958.40
1409-026	Install Electrical	01JAN04A	94*	31MAR04A			100	0.00	0.00
1409-030	Generate I2T Reqmnts	23FEB04A	16	15MAR04A			100	0.00	0.00
1409-032	Design I2T Protection	01APR04A	0*	30APR04A			100	6,028.00	6,028.00
1409-034	Fabricate I2T Cards	01APR04A	42*	28MAY04A			100	15,795.00	15,795.00
1409-036	Define N2 Election Scheme	23FEB04A	2	24FEB04A			100	0.00	0.00
1409-038	Plan/Procure N2 Ejection Scheme	25FEB04A	14	15MAR04A			100	0.00	0.00
1409-040	Install N2 Ejection Scheme	01MAY04A	85*	31AUG04A			100	12,740.00	12,740.00
1409-100	Design Controls Modifications	08APR04A	37*	28MAY04A			100	46,632.00	46,632.00
1409-110	ES&H Peer Review	05APR04A	1	05APR04A			100	0.00	0.00
1409-120	Install Control Modifications	01MAY04A	42*	30JUN04A			100	11,923.20	11,923.20
1409-140	Design Closed Loop LN2 System	02AUG04A	85*	30NOV04A			100	0.00	0.00
1409-145	FDR closed loop LN2 syst	01DEC04A	1	23DEC04A			100	0.00	0.00
1409-027	Cryo Line Installation	03MAY04A	248*	29APR05A			100	27,804.25	27,804.25
1409-150	Proc Matl's/pump f/closed LN2	02AUG04A	141*	28FEB05A			100	19,182.98	19,182.98
1409-155	Fab/Instl Closed Loop LN2 sys	01DEC04A	101*	29APR05A			100	12,602.40	12,602.40
1409-029	Oversight/Supervision	01APR04A	333*	29JUL05A			LOE	35,070.86	35,070.86
1409-044	Final Design & ACC Review	29APR05A	44*	30JUN05A			100	0.00	0.00
1409-028	System Testing (planar racetrack)	01JUN05A	42*	29JUL05A			100	17,677.40	17,677.40
1409-160	Test Closed Loop Cooling	29JUL05A	0*	29JUL05A			100	2,980.80	2,980.80
1409-165	Closed Loop Facility Available for TRC		0	29JUL05A			100	0.00	0.00
1409-ECP36	ECP36 job closeout cost variance	01OCT04A	205*	29JUL05A			100	406,000.00	406,000.00
FY05CV-22	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				62,000.00	62,000.00
Job: 1415 Dim Cntrl Testing-RAFTOPOLOUS*CLOSED**									
Production Modular Coils									
1415-100	Straight Tee Lacing Test	20JUN05A	19*	15JUL05A			100	14,850.00	14,850.00



Run Date 25OCT05 11:35

ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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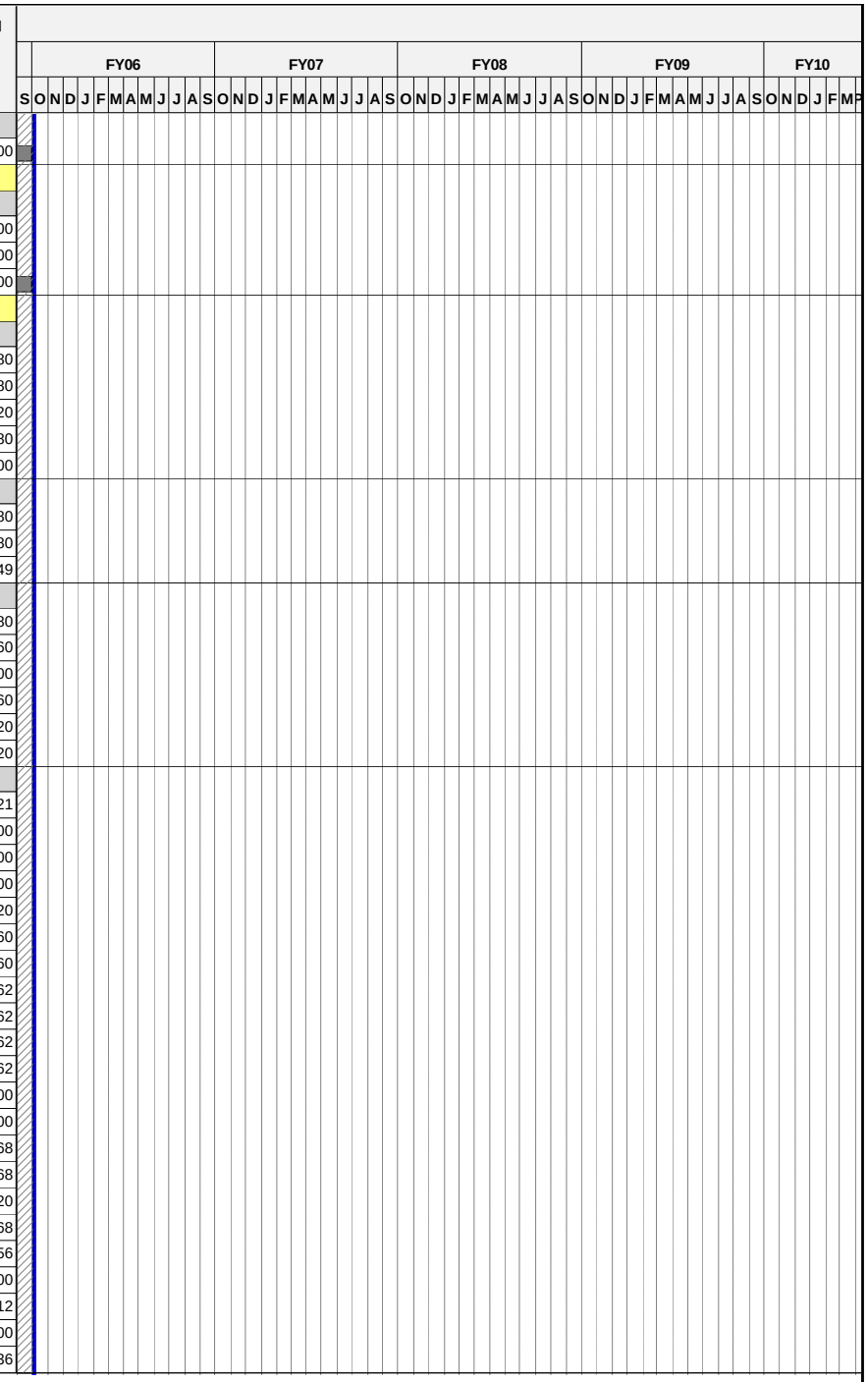
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
FY05CV-20	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				9,000.00	9,000.00
Job: 1419-Winding Fac. Mods-CHRZANOWSKI*CLOSED*									
1419-100	Holes in flange	01JUL05A	43*	31AUG05A			100	0.00	0.00
1419-105	Paint Plates	29JUL05A	22	29JUL05A			100	0.00	0.00
FY05CV-18	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				48,000.00	48,000.00
Job: 1403 - Modular Coil Final Design-WILLIAMSON									
PDR/PBR Prep									
1403-04	Plan response to PDR chits	01OCT03A	23	31OCT03A			100	2,573.80	2,573.80
1403-05	Prepare FY04 WP / WAF / Checklists	08OCT03A	21	14OCT03A			100	2,573.80	2,573.80
1403-06	Prepare documents for PDR closeout	15OCT03A	52*	24DEC03A			100	10,295.20	10,295.20
1403-07	Prepare PBR documentation	31OCT03A	19*	18NOV03A			100	2,573.80	2,573.80
1403-08	Performance Baseline Review		0	18NOV03A			100	0.00	0.00
Requirements/Config and Interfaces									
1403-10	Review, revise, and approve SRD	15OCT03A	160	28MAY04A			100	2,573.80	2,573.80
1403-13	Finalize winding pack ref xsec, conductor dims	15OCT03A	45*	26NOV03A			100	2,573.80	2,573.80
1403-14	Revise winding form and windings/asm models	15OCT03A	75*	30JAN04A			100	41,309.49	41,309.49
Analysis - Thermal & Electrical									
1403-21	Document electrical, insulation parameters	15OCT03A	56*	19DEC03A			100	2,573.80	2,573.80
1403-22	Update thermal analysis to current WP design	22OCT03A	51*	19DEC03A			100	5,147.60	5,147.60
1403-23	Update thermo-hydraulic analysis of coils	01DEC03A	127*	18MAY04A			100	6,180.00	6,180.00
1403-25	Check EM loads calculation for ref scenarios	02FEB04A	85*	18MAY04A			100	5,147.60	5,147.60
1403-26	Perform scan of EM fault load conditions	01DEC03A	127*	18MAY04A			100	10,295.20	10,295.20
1403-26.1	Check thermal & electrical calculations	02FEB04A	85*	18MAY04A			100	10,295.20	10,295.20
Analysis - Structural									
141TITLE2P	PDR #1,4,26 Access,Tolerance Budget,Bolting	01MAR04A	65*	18MAY04A			100	26,896.21	26,896.21
1403-29	Complete ANSYS model of coil structure asm	15OCT03A	160*	18MAY04A			100	154,500.00	154,500.00
1403-30	Analyze global stress /deflect winding form asm	31OCT03A	148*	18MAY04A			100	15,450.00	15,450.00
1403-31	Analyze stress in bolted connections	01MAR04A	65*	18MAY04A			100	6,180.00	6,180.00
1403-32	Update MECHANICA model of 3 coil types	15OCT03A	160*	18MAY04A			100	10,295.20	10,295.20
1403-33	Anlyz wind pack deflect/stress fo thrml, EM lds	01MAR04A	65*	18MAY04A			100	5,147.60	5,147.60
1403-34	Analyze and optimize clamp locations	01MAR04A	55*	30APR04A			100	5,147.60	5,147.60
1403-35	Perform supporting analysis for material tests	15OCT03A	150*	30APR04A			100	16,727.62	16,727.62
1403-36	Update EM loads for reference scenarios	01MAR04A	55*	30APR04A			100	10,357.62	10,357.62
1403-37	Perform check og global structural analysis	01MAR04A	65*	18MAY04A			100	16,727.62	16,727.62
1403-38	Check nonlinear winding pack analysis	01MAR04A	65*	18MAY04A			100	10,357.62	10,357.62
1403-39	Analyze gravity, equip, seismic loading	01MAR04A	65*	18MAY04A			100	6,180.00	6,180.00
1403-40	Analyze combined loads and fault conditions	01MAR04A	65*	18MAY04A			100	6,180.00	6,180.00
1403-40.1	Check Structural Calculations	02FEB04A	107*	18MAY04A			100	9,265.68	9,265.68
1403-40.1A	Prepare plate element model of coil structure	01MAR04A	65*	18MAY04A			100	9,265.68	9,265.68
1403-40.1B	Confirm global deflection/stress, re-inf of shel	02FEB04A	85*	18MAY04A			100	10,295.20	10,295.20
1403-40.1C	Check all struct calculkations	01MAR04A	65*	18MAY04A			100	9,265.68	9,265.68
1403-40.2A	Develop multi-filament model of all coils	01MAR04A	65*	18MAY04A			100	3,088.56	3,088.56
1403-40.2B	Confirm Plasma performance & surface quality	26APR04A	25*	18MAY04A			100	3,708.00	3,708.00
1403-40.2C	Model expected deflections under thermal/EM	26APR04A	25*	18MAY04A			100	6,177.12	6,177.12
1403-40.2D	Confirm plasma performance & surface quality	26APR04A	25*	18MAY04A			100	7,416.00	7,416.00
1403-41	Prepare structural analysis report	26APR04A	25*	18MAY04A			100	18,531.36	18,531.36



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ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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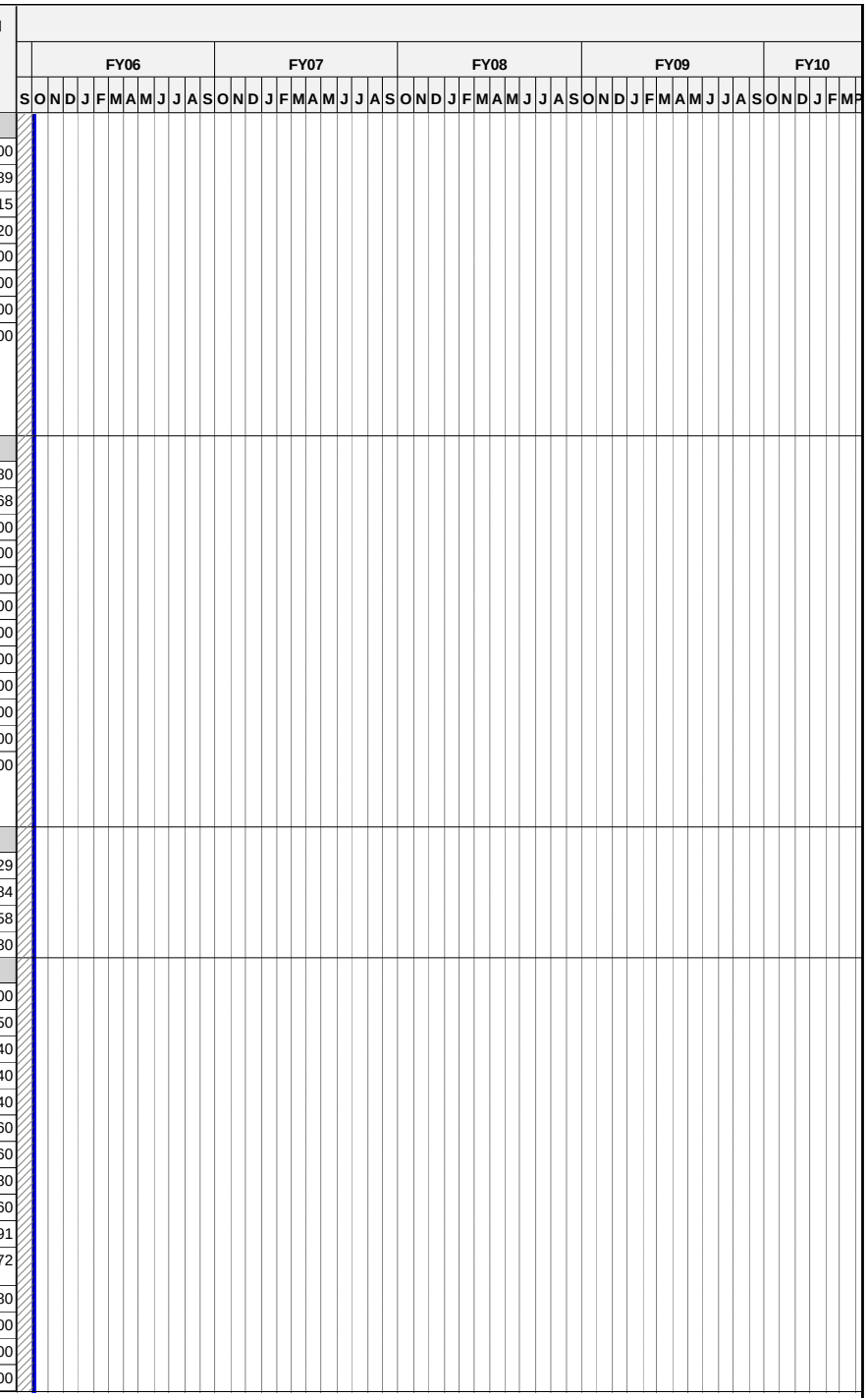
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
Winding Form FDR Prep									
1403-03	Increase for actual cost of Final Design ECP 11	15OCT03A	118*	30JUN04A			100	358,000.00	358,000.00
1403-43	Incorporate changes due to prototype fabr	01MAR04A	22*	31MAR04A			100	10,423.89	10,423.89
1403-47	Prepare failure modes assessment (FMECA)	26APR04A	68*	19MAY04A			100	4,504.15	4,504.15
1403-50	Prepare FDR documentation / presentations	01MAY04A	9	18MAY04A			100	10,295.20	10,295.20
1403-50.2	Prepare Prelim Bid Package	23APR04A	0*	23APR04A			100	0.00	0.00
1403-50.5	Prelim Bid Package Released		0	23APR04A			100	0.00	0.00
1403-51	MCWF FDR		0	19MAY04A			100	0.00	0.00
C-081.1	JOULE MILESTONE #4 - CD-3 Readiness		0	16SEP04A			100	0.00	0.00
MCWF Procurement									
1403-53	Resolve FDR comments and recommendations	01JUN04A	86*	30SEP04A			100	15,442.80	15,442.80
1403-54	Final bid package(specs,models,dwgs)	09JUN04A	17*	30JUN04A			100	7,976.68	7,976.68
1010	Prep & Issue RFP	01JUL04A	1	01JUL04A			100	0.00	0.00
1020	EIO & JPP Prepare and submit FPP proposal	02AUG04A	0*	02AUG04A			100	0.00	0.00
1030.1	Review & Evaluate Proposals	03AUG04A	5	13AUG04A			100	21,804.00	21,804.00
1030.2	Vendor Oral Presentations	16AUG04A	3	20AUG04A			100	0.00	0.00
1030.3	Best & Final Offers	23AUG04A	2	27AUG04A			100	0.00	0.00
1030.4	Evaluate & Make Recomendation	30AUG04A	5	30AUG04A			100	0.00	0.00
1040	Vendor Decision		0	31AUG04A			100	0.00	0.00
1030.5	Prepare Contract Package	01SEP04A	0*	03SEP04A			100	0.00	0.00
1050	DOE review and PPPL Award Contract	01SEP04A	0*	30SEP04A			100	0.00	0.00
C-081	Award MCWF Mfg Contract (phase funded)		0	30SEP04A			100	0.00	0.00
Coil-to-coil Interface Design									
1403-11	Prepare assembly / interface drawings for ICDs	15OCT03A	268*	30SEP04A			100	9,304.29	9,304.29
1403-12	Finalize and approve all ICDs	01MAR04A	173*	30SEP04A			100	4,632.84	4,632.84
1403-15	Prepare winding form asm / detail drawings	03NOV03A	265*	30SEP04A			100	62,028.58	62,028.58
1403-48	Update design basis document	26APR04A	47*	30JUN04A			100	15,442.80	15,442.80
MCWF & Winding Analysis/Testing									
1403-ECP16	ecp16	01JUN04A	108*	30SEP04A			100	139,000.00	139,000.00
1403-FY04	Analysis fy04	01JUN04A	108*	30SEP04A			100	48,083.50	48,083.50
1403-27	Prepare thermal, electrical analysis report	02FEB04A	128*	30JUL04A			100	20,590.40	20,590.40
1403-27A	Update winding pack thermal/hydraulic analysis	01JUN04A	97*	30SEP04A			100	20,590.40	20,590.40
1403-40.3X	Modify MCWF Contract Documents & drawings	01AUG04A	43*	30SEP04A			100	20,590.40	20,590.40
1403-42	Complete FDR Struct Analysis Report	01JUN04A	108*	30SEP04A			100	29,867.60	29,867.60
1403-42B	Modify ORNL beam test setup provide torsional	01JUN04A	108*	30SEP04A			100	5,147.60	5,147.60
1403-42C	Revise analysis incorp final modeling changes	15JUL04A	77*	30SEP04A			100	34,552.80	34,552.80
1403-42E	Complete checking struct calculations	01AUG04A	65*	30SEP04A			100	17,697.60	17,697.60
1403-44	Prepare final drawings for winding forms, asm	01MAR04A	75*	30JUN04A			100	82,232.91	82,232.91
1403-45	Check and promote models / drawings	01MAR04A	97*	15JUL04A			100	120,456.72	120,456.72
1403-46	Update build-to specification / SOW	01MAR04A	75*	30JUN04A			100	15,442.80	15,442.80
1403-70	Complete non-linear model revisions	01SEP04A	31	30SEP04A			100	0.00	0.00
1403-40.2X	Multifilament coils file incl leads	01OCT04A	41*	30NOV04A			100	6,200.00	6,200.00
1403-42G	WP beam FEA modeling	01NOV04A	21	30NOV04A			100	3,100.00	3,100.00



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ECP-38 baseline
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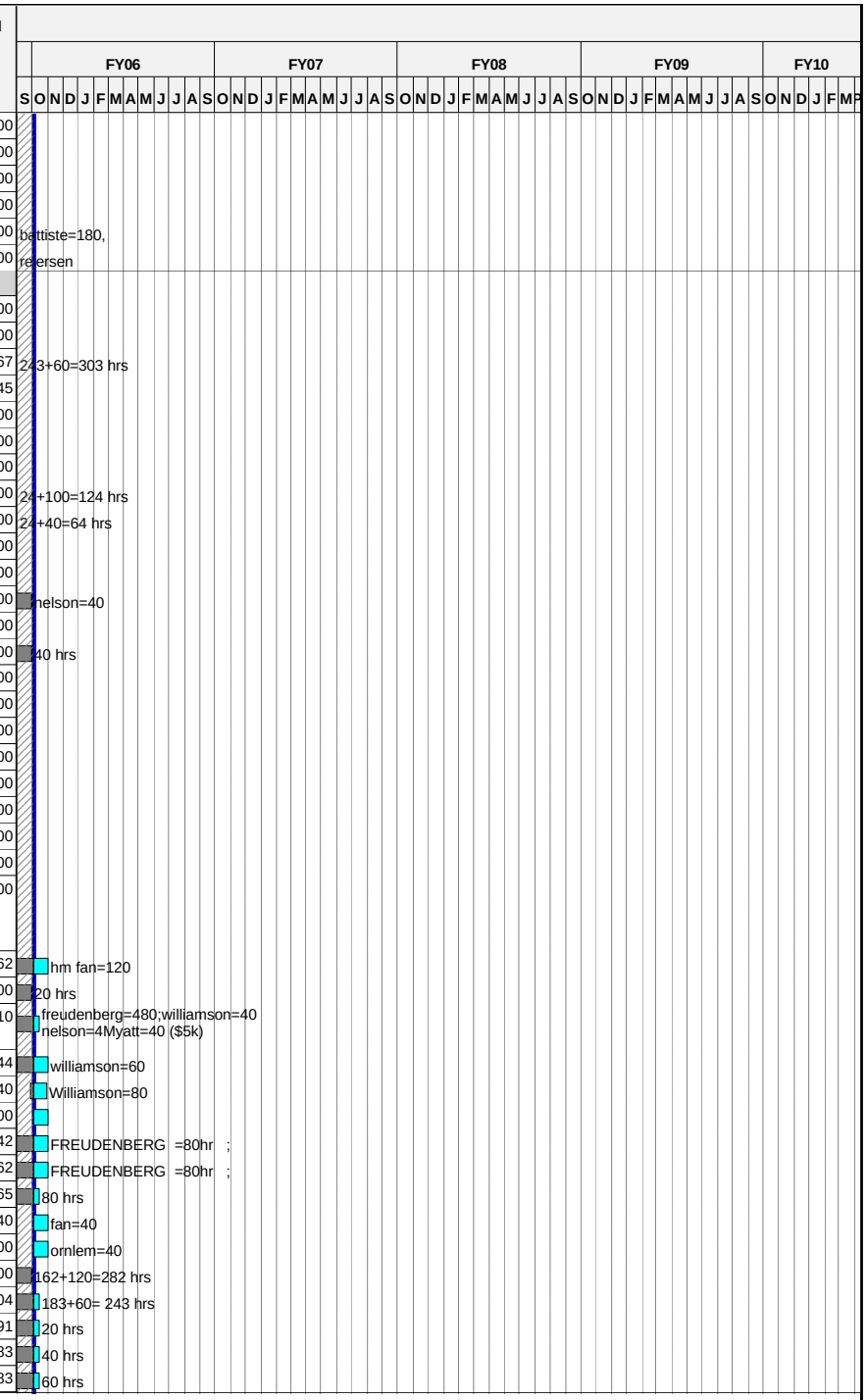
1403-47B	det boundary conditions single nonlinear windng	01DEC04A	22	31DEC04A			100	6,370.00	6,370.00
1403-74	check analysis using simplified models	01OCT04A	165*	31MAY05A			100	39,660.00	39,660.00
1403-42D	Fracture fatigue analysis for MCWF	01NOV04A	144*	31MAY05A			100	9,915.00	9,915.00
1403-42D.0	Determine Fatigue properties	01NOV04A	144*	31MAY05A			100	3,305.00	3,305.00
1403-42F	Perform WP beam tests at ORNL	01NOV04A	209*	31AUG05A			100	27,900.00	27,900.00
1403-49A	Update tech sheets for new #of turns	01JUN05A	65*	31AUG05A			100	6,200.00	6,200.00
Winding and Assembly Design-Type C									
1403-20.01	ISSUE CLADDING DWGS FOR FAB	29APR05A	1	29APR05A			100	0.00	0.00
1403-20.04	Resolve FDR chits	25APR05A	5	25APR05A			100	6,200.00	6,200.00
1403-201	Leads start assy Dwgs (10)-Type C	01JAN04A	420*	31AUG05A			100	43,339.67	43,339.67
1403-202	G-10 Filler DwgsType C ?????????????	01JAN04A	227*	30SEP04A			100	13,512.45	13,512.45
1403-203	Start Clamp Dwgs (5)-Type C	01JAN05A	20	28FEB05A			100	23,219.00	23,219.00
1403-206	Start Cooling, Electr Schematic Dwgs- Type C	01NOV04A	81*	28FEB05A			100	3,720.00	3,720.00
1403-208	Start I&C Dwgs -Type C	01NOV04A	139*	28FEB05A			100	1,860.00	1,860.00
1403-221	Lead ends assy-Type C	01NOV04A	208*	31AUG05A			100	19,220.00	19,220.00
1403-222	Terminal / elec services assembly-Type C	01NOV04A	208*	31AUG05A			100	9,920.00	9,920.00
1403-223	Start tp level coil assembly-Type C	01NOV04A	139*	28FEB05A			100	1,860.00	1,860.00
1403-224	Start PI mold assembly-Type C	01NOV04A	127*	28FEB05A			100	3,720.00	3,720.00
1403-42A	WP beam bending results documentation	02MAY05A	108*	30SEP05A			100	6,200.00	6,200.00
1403-502	Lead Block dwgs apprvd for fabrication	29JUL05A	0*	29JUL05A			100	0.00	0.00
1403-58X1	Check and promote cladding & terminal	29APR05A	109*	30SEP05A			100	6,200.00	6,200.00
1403-58X2	Check and promote lead blocks	01MAY05A	73*	29JUL05A			100	12,400.00	12,400.00
1403-60	Start Update design basis document	02FEB05A	80*	28FEB05A			100	1,240.00	1,240.00
1403-20A	Mod Coil Type C Cladding FDR		0	25APR05A			100	0.00	0.00
1403-500	Type C Lead Block FDR		0	18MAY05A			100	0.00	0.00
1403-219	MCWF assy-Type C	01OCT04A	186*	30JUN05A			100	17,980.00	17,980.00
1403-62	Prepare FDR documentation / presentations	01JUN05A	0*	30JUN05A			100	3,100.00	3,100.00
1403-504	Type C Chill Plate FDR		0	30JUN05A			100	0.00	0.00
1403-508	Type C Clamp FDR		0	30JUN05A			100	0.00	0.00
1403-20B	Mod Coil Type C FDR's COMPLETE		0	30JUN05A			100	0.00	0.00
1403-90	Compile Material properties database	01OCT04A	272*	31OCT05	138		90	17,920.46	19,911.62
1403-20.00	Resolve FDR chits	25APR05A	113	30SEP05A			100	3,100.00	3,100.00
1403-40.2Z	Update nonlinear winding pack analysis	01AUG04A	304*	14OCT05	149		90	77,288.49	85,876.10
1403-42H	calculate EM loads at leads	01SEP05A	43*	31OCT05	138		60	5,820.86	9,701.44
1403-47A	Update,review & approve FMECA	26SEP05A	20	28OCT05	139		10	663.84	6,638.40
1403-42A1	Document analysis of MCWF eddy currents	03OCT05*	21*	31OCT05	138			0.00	0.00
1403-73	Prep struct analysis report	01MAY05A	129*	31OCT05	138		50	6,289.21	12,578.42
1403-76	Structural analysis of leads	01OCT04A	272*	31OCT05	138		50	6,242.31	12,484.62
1403-223C	Finish Top level coil assembly-Type C	01MAR05A	162*	14OCT05	149		90	9,974.12	12,467.65
1403-47C	Perform cool-down/warmup analysis	03OCT05*	21*	31OCT05	138			0.00	6,962.40
1403-50A	Check inductance calculation	03OCT05	21*	31OCT05	138			0.00	6,748.00
1403-220	Cladding assembly-Type C	01OCT04A	251*	30SEP05A			100	43,710.00	43,710.00
1403-200	Side A/B winding pack assy-Type C	01JAN04A	452*	14OCT05	149		90	31,533.34	35,037.04
1403-224C	Finish VPI mold assembly-Type C	01MAR05A	162*	14OCT05	149		60	1,870.15	3,116.91
1403-208C	Finish I&C Dwgs -Type C	01MAR05A	162*	14OCT05	149		60	3,740.30	6,233.83
1403-206.1	Cooling tubes/services assy- Type C	25APR05A	123*	14OCT05	149		60	5,620.10	9,366.83



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ECP-38 baseline
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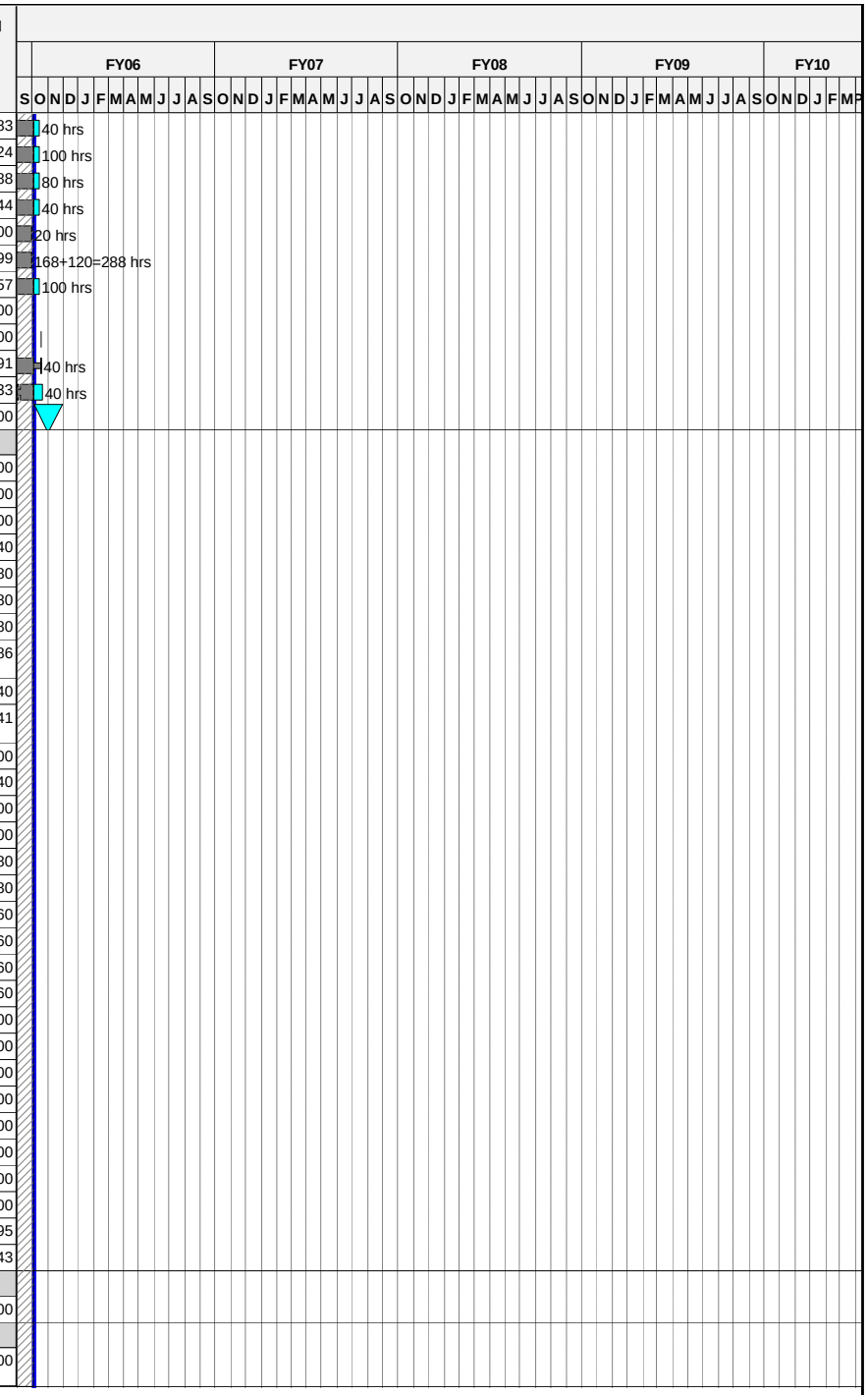
1403-206C	Finish Cooling, Electr Schematic Dwgs - Type C	01MAR05A	162*	14OCT05	149		50	3,740.30	6,233.83
1403-58C	Check and promote clamp, I&C assy dwgs	01JUN05A	97*	14OCT05	149		80	12,512.99	15,641.24
1403-60C	Finish Update design basis document	02MAY05A	118*	14OCT05	149		60	7,495.73	12,492.88
1403-59	Type-C product specifications	02MAY05A	118*	14OCT05	148		90	5,621.80	6,246.44
1403-49	Update cost / schedule estimates	02MAY05A	108*	30SEP05A			100	3,100.00	3,100.00
1403-204	Outer Chill Plate Dwgs -Type C	01SEP04A	272*	30SEP05A			100	44,054.99	44,054.99
1403-203C	Finish Clamp Dwgs (5)-Type C	01MAR05A	162*	14OCT05	195		90	14,026.11	15,584.57
1403-506	Chill plate dwgs approved for fabrication	03OCT05	1	03OCT05	156			0.00	0.00
1403-510	Clamp and assy dwgs approved for fabrication	17OCT05	1	17OCT05	195			0.00	0.00
1403-20.2	Resolve FDR chits	01AUG05A	56*	17OCT05	148		50	3,105.96	6,211.91
1403-70.05	Update MIT/QA Plans for Type C Winding Fab	01SEP05A	36*	21OCT05	995		50	3,214.17	6,428.33
1403-20.0	Final Design Close-out for Type C		0	31OCT05*	138			0.00	0.00
Twisted Racetrack Design (Williamson)									
1403-062	Trial winding analysis & shim rqmnts	01MAR05A	20	31MAR05			100	0.00	0.00
1403-065	Cooling redesign and analysis	01MAR05A	20	31MAR05			100	24,800.00	24,800.00
1403-066	Clamp modifications Dwgs	01MAR05A	20	31MAR05			100	12,400.00	12,400.00
1403-068	TRC I&C	01MAR05A	20	31MAR05			100	30,846.40	30,846.40
1406-097	Verify Conductor Dims	01OCT03A	3	03OCT03			100	2,573.80	2,573.80
1406-098	Complete Drawings of Casting	13OCT03A	21	26NOV03			100	15,442.80	15,442.80
1406-099	Review/Approve Casting Drawings	26NOV03A	10	26NOV03			100	15,442.80	15,442.80
1406-101	Prepare Clamp & Chill Plate detail Drawings	14MAY04A	99*	30SEP04A			100	50,703.86	50,703.86
1406-101.1	Winding block dwgs for prototype	01JUN04A	87*	30SEP04A			100	20,590.40	20,590.40
1406-102	Review/Approve Clamp& Chill Plate Dwgs	01JUN04A	107*	29OCT04			100	22,487.41	22,487.41
1406-103.0	Prep MIT plan	01OCT04A	0*	15OCT04			100	2,644.00	2,644.00
1406-103.1	Prepare for Twisted Racetrack FDR	01SEP04A	42*	29OCT04			100	17,021.40	17,021.40
1406-103.2	Twisted Racetrack FDR		0	15OCT04			100	0.00	0.00
1406-103.3	Resolve TRC FDR Issues	01NOV04A	100*	31MAR05			100	2,480.00	2,480.00
1406-105	Prepare ANSYS thermal analysis model	31OCT03A	3	31OCT03			100	2,573.80	2,573.80
1406-106	Analyze Thermal Behavior due to pulse	31OCT03A	3	31OCT03			100	2,573.80	2,573.80
1406-107	Calculate EM Loads due to max current	03NOV03A	3	26NOV03			100	5,147.60	5,147.60
1406-108	Prep MECHANICA Struct Analysis Model	03NOV03A	3	26NOV03			100	5,147.60	5,147.60
1406-109	Analyze Stress/deflection due to cooldown,pulse	01SEP04A	5*	30SEP04A			100	5,147.60	5,147.60
1406-111	Write papers and present at conferences	01SEP04A	241*	30SEP04A			100	30,885.60	30,885.60
1406-150	Winding pack assy	01OCT04A	0*	29OCT04			100	1,240.00	1,240.00
1406-151	Lead ends & closure	01OCT04A	21*	29OCT04			100	1,240.00	1,240.00
1406-152	Terminal Assy	01OCT04A	21*	29OCT04			100	1,240.00	1,240.00
1406-153	VPI mold assy	01OCT04A	21*	29OCT04			100	1,240.00	1,240.00
1406-154	Clamp assy	01OCT04A	21*	29OCT04			100	1,240.00	1,240.00
1406-155	Cooling ,electr schematics	01OCT04A	21*	29OCT04			100	1,240.00	1,240.00
1406-156	I&C dwgs	01OCT04A	21*	29OCT04			100	1,240.00	1,240.00
1406-157	Build to specification	01NOV04A	67*	23DEC04			100	2,480.00	2,480.00
1406-104	Prepare Draft of Coil Test Plan	01OCT03A	416*	31MAY05			100	5,562.95	5,562.95
1406-110	Finalize, Approve coil test plan	01DEC03A	414*	29JUL05A			100	11,337.43	11,337.43
Prior Costs									
1403-ECPRB	Rebaselining YTD adjustment for ytd cv	01OCT04A	108*	28FEB05A			100	154,400.00	154,400.00
TITLE2TRC	Titel III Design-TRC FAB	24JAN05A	91	30JUN05A			LOE	79,570.00	79,570.00



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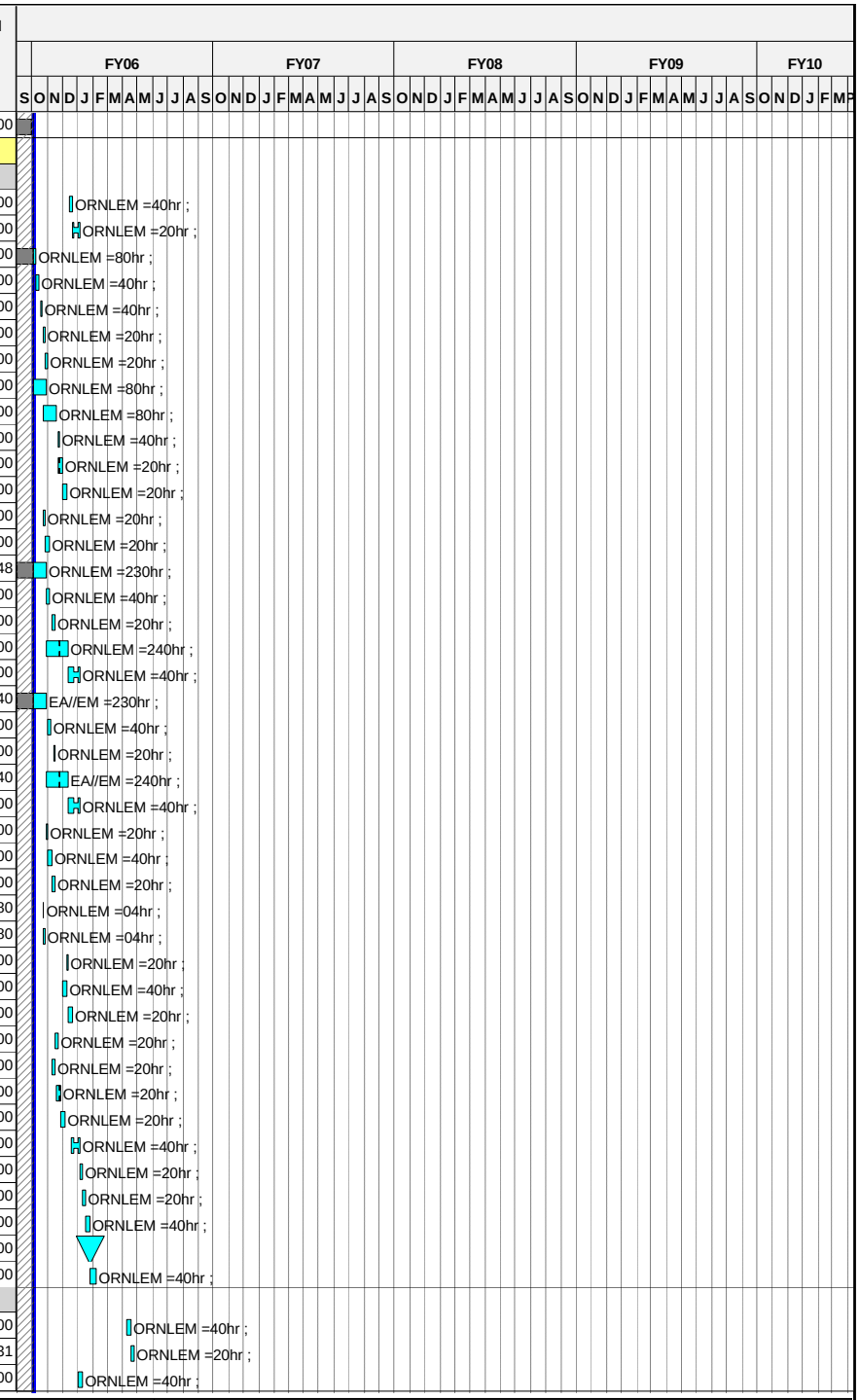
FY05CV-11	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				410,000.00	410,000.00
Job: 1416-Mod Coil Type A&B Final Dsn-WILLIAMSON									
Winding and Assembly Design-Type A									
1416A-105	-Subasm Shrinkwrap	15DEC05*	5	21DEC05	218			0.00	6,748.00
1416A-109	-Check and Promote	22DEC05	5	05JAN06	218			0.00	3,374.00
1416A-113	MCWF mods-As-Built MCWF	01AUG05A	50*	07OCT05	269		50	6,200.00	12,400.00
1416A-117	MCWF mods-Studs, Lead Block Mount	10OCT05*	5	14OCT05	264			0.00	6,748.00
1416A-121	MCWF mods-Seal Groove Adapter	17OCT05*	5	21OCT05	259			0.00	6,748.00
1416A-125	MCWF mods-Metrology Data Files	24OCT05*	3	26OCT05	256			0.00	3,374.00
1416A-129	MCWF mods-Check and Promote	27OCT05	5	02NOV05	256			0.00	3,374.00
1416A-133	Lead Block Assy-Lead Blocks	03OCT05*	20	28OCT05	225			0.00	13,496.00
1416A-137	Lead Block Assy-Top and Side Plates	24OCT05*	20	18NOV05	210			0.00	13,496.00
1416A-141	Lead Block Assy-Detail Parts, Intralink	21NOV05*	3	23NOV05	207			0.00	6,748.00
1416A-145	Lead Block Assy-Filament Data Files	23NOV05*	5	01DEC05	203			0.00	3,374.00
1416A-149	Lead Block Assy-Check and Promote	02DEC05	5	08DEC05	203			0.00	3,374.00
1416A-153	Lead Terminals-Splice Plates	25OCT05*	3	27OCT05	226			0.00	3,374.00
1416A-157	Lead Terminals-Check and Promote	28OCT05	5	03NOV05	226			0.00	3,374.00
1416A-161	Side A Coil Assy-Cladding Asm	01SEP05A	42*	28OCT05	224		80	29,720.38	37,150.48
1416A-165	Side A Coil Assy-Cond Layers, Geom Files	31OCT05*	5	04NOV05	244			0.00	6,748.00
1416A-169	Side A Coil Assy-Magnetic Loops	10NOV05*	3	14NOV05	238			0.00	3,374.00
1416A-173	Side A Coil Assy-Chill Plates and Tubing	31OCT05*	30	13DEC05	219			0.00	40,488.00
1416A-177	Side A Coil Assy-Check and Promote	14DEC05	10	04JAN06	219			0.00	6,748.00
1416A-181	Side B Coil Assy-Cladding Asm	01SEP05A	42*	28OCT05	224		80	31,177.92	38,972.40
1416A-185	Side B Coil Assy-Cond Layers, Geom Files	01NOV05*	5	07NOV05	243			0.00	6,748.00
1416A-189	Side B Coil Assy-Magnetic Loops	14NOV05*	3	16NOV05	236			0.00	3,374.00
1416A-193	Side B Coil Assy-Chill Plates and Tubing	31OCT05*	30	13DEC05	219			0.00	41,774.40
1416A-197	Side B Coil Assy-Check and Promote	14DEC05	10	04JAN06	219			0.00	6,748.00
1416A-201	Coil Post VPI mods-Studs Removed	31OCT05*	3	02NOV05	251			0.00	3,374.00
1416A-205	Coil Post VPI mods-Clamp Arrangement	03NOV05*	5	09NOV05	246			0.00	6,748.00
1416A-209	Coil Post VPI mods-Check and Promote	10NOV05	5	16NOV05	246			0.00	3,374.00
1416A-213	Clamp Assy-Clamp Hardware	24OCT05*	1	24OCT05	262			0.00	674.80
1416A-217	Clamp Assy-Check and Promote	25OCT05	1	25OCT05	262			0.00	674.80
1416A-221	I&C-Strain Gages and T/C	09DEC05*	3	13DEC05	224			0.00	3,374.00
1416A-225	I&C-Rogowski Coils	02DEC05*	5	08DEC05	227			0.00	6,748.00
1416A-229	I&C-Check and Promote	14DEC05	5	20DEC05	224			0.00	3,374.00
1416A-233	Coil-to-Coil -Current Feed Insul, Covers	15NOV05*	5	21NOV05	238			0.00	3,374.00
1416A-237	Coil-to-Coil -Windings Insul Blanket	10NOV05*	5	16NOV05	241			0.00	3,374.00
1416A-241	Coil-to-Coil -Bushing Installation	18NOV05*	5	28NOV05	235			0.00	3,374.00
1416A-245	Coil-to-Coil -Check and Promote	29NOV05	5	05DEC05	235			0.00	3,374.00
1416A-249	-Type-A Coil Asm Specification	20DEC05*	5	03JAN06	210			0.00	6,748.00
1416A-253	-Review and Approve Type-A Spec	04JAN06	5	10JAN06	210			0.00	3,374.00
1416A-257	-Update Coil Fab Procedures	11JAN06	5	17JAN06	210			0.00	3,374.00
1416A-261	-Prepare and Conduct FDR	18JAN06*	5	24JAN06	210			0.00	6,748.00
1416A-262	TYPE A FDR		0	24JAN06	210			0.00	0.00
1416A-265	-Resolve FDR Comments	25JAN06	10	07FEB06	210			0.00	6,748.00
Winding and Assembly Design-Type B									
1416B-105	-Subasm Shrinkwrap	11APR06*	5	17APR06	208			0.00	6,748.00
1416B-109	-Check and Promote	18APR06	5	24APR06	208			0.00	3,372.31
1416B-113	MCWF mods-As-Built MCWF	03JAN06*	5	09JAN06	278			0.00	6,748.00



Run Date 25OCT05 11:35

ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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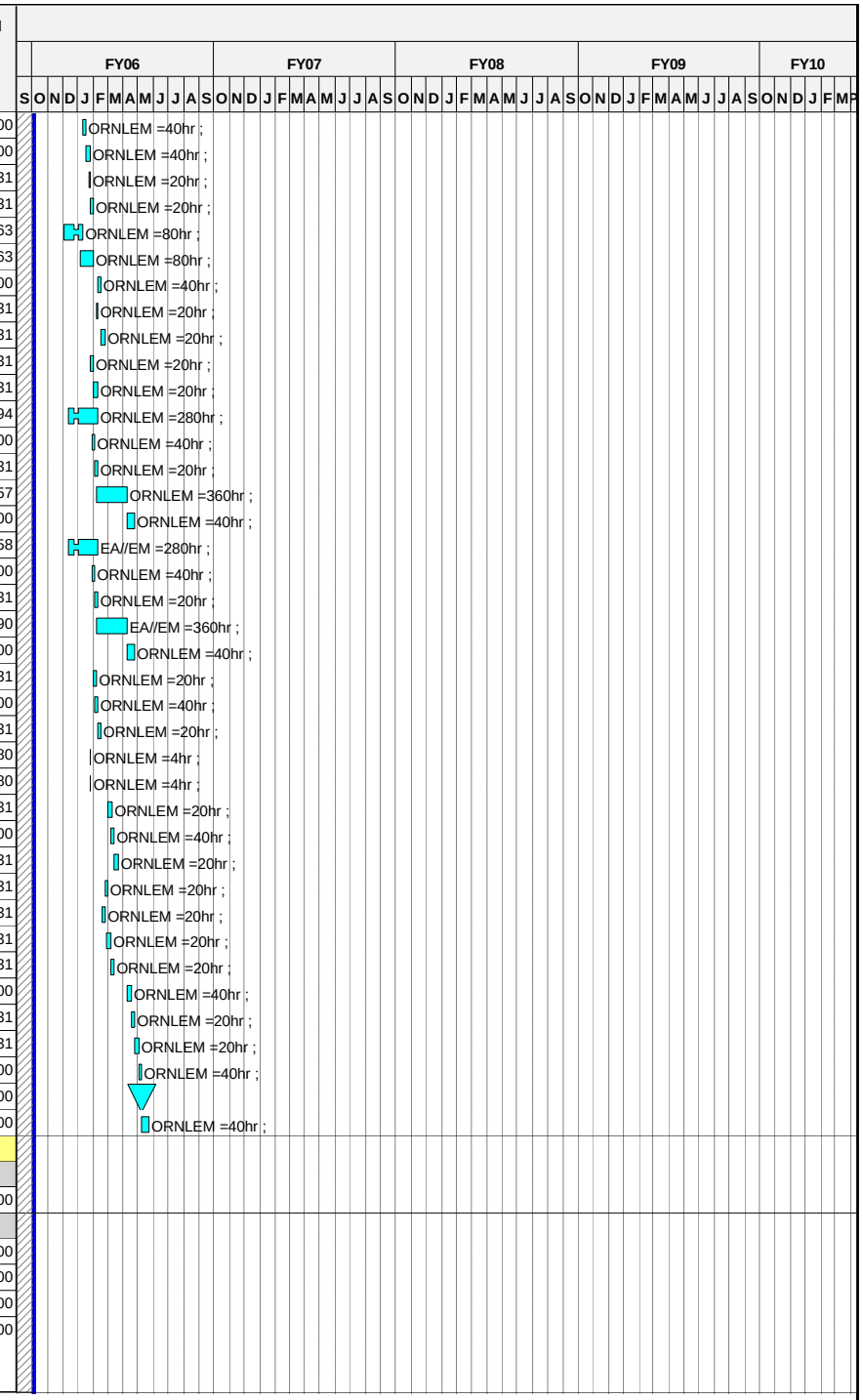
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
1416B-117	MCWF mods-Studs, Lead Block Mount	10JAN06*	5	16JAN06	273			0.00	6,748.00
1416B-121	MCWF mods-Seal Groove Adapter	18JAN06*	5	24JAN06	267			0.00	6,748.00
1416B-125	MCWF mods-Metrology Data Files	23JAN06*	3	25JAN06	266			0.00	3,372.31
1416B-129	MCWF mods-Check and Promote	26JAN06	5	01FEB06	266			0.00	3,372.31
1416B-133	Lead Block Assy-Lead Blocks	05DEC05*	20	09JAN06	249			0.00	13,492.63
1416B-137	Lead Block Assy-Top and Side Plates	05JAN06*	20	01FEB06	232			0.00	13,492.63
1416B-141	Lead Block Assy-Detail Parts, Intralink	10FEB06*	5	16FEB06	221			0.00	6,748.00
1416B-145	Lead Block Assy-Filament Data Files	06FEB06*	5	10FEB06	225			0.00	3,372.31
1416B-149	Lead Block Assy-Check and Promote	17FEB06	5	23FEB06	221			0.00	3,372.31
1416B-153	Lead Terminals-Splice Plates	26JAN06*	5	01FEB06	232			0.00	3,372.31
1416B-157	Lead Terminals-Check and Promote	02FEB06	5	08FEB06	232			0.00	3,372.31
1416B-161	Side A Coil Assy-Cladding Asm	14DEC05*	35	08FEB06	226			0.00	47,230.94
1416B-165	Side A Coil Assy-Cond Layers, Geom Files	30JAN06*	5	03FEB06	254			0.00	6,748.00
1416B-169	Side A Coil Assy-Magnetic Loops	03FEB06*	5	09FEB06	250			0.00	3,372.31
1416B-173	Side A Coil Assy-Chill Plates and Tubing	07FEB06*	45	10APR06	208			0.00	60,723.57
1416B-177	Side A Coil Assy-Check and Promote	11APR06	10	24APR06	208			0.00	6,748.00
1416B-181	Side B Coil Assy-Cladding Asm	14DEC05*	35	08FEB06	226			0.00	48,731.58
1416B-185	Side B Coil Assy-Cond Layers, Geom Files	30JAN06*	5	03FEB06	254			0.00	6,748.00
1416B-189	Side B Coil Assy-Magnetic Loops	03FEB06*	5	09FEB06	250			0.00	3,372.31
1416B-193	Side B Coil Assy-Chill Plates and Tubing	07FEB06*	45	10APR06	208			0.00	62,652.90
1416B-197	Side B Coil Assy-Check and Promote	11APR06	10	24APR06	208			0.00	6,748.00
1416B-201	Coil Post VPI mods-Studs Removed	31JAN06*	5	06FEB06	258			0.00	3,372.31
1416B-205	Coil Post VPI mods-Clamp Arrangement	03FEB06*	5	09FEB06	255			0.00	6,748.00
1416B-209	Coil Post VPI mods-Check and Promote	10FEB06	5	16FEB06	255			0.00	3,372.31
1416B-213	Clamp Assy-Clamp Hardware	25JAN06*	1	25JAN06	270			0.00	674.80
1416B-217	Clamp Assy-Check and Promote	26JAN06	1	26JAN06	270			0.00	674.80
1416B-221	I&C-Strain Gages and T/C	03MAR06*	5	09MAR06	235			0.00	3,372.31
1416B-225	I&C-Rogowski Coils	08MAR06*	5	14MAR06	232			0.00	6,748.00
1416B-229	I&C-Check and Promote	15MAR06	5	21MAR06	232			0.00	3,372.31
1416B-233	Coil-to-Coil -Current Feed Insul, Covers	23FEB06*	5	01MAR06	241			0.00	3,372.31
1416B-237	Coil-to-Coil -Windings Insul Blanket	20FEB06*	5	24FEB06	244			0.00	3,372.31
1416B-241	Coil-to-Coil -Bushing Installation	28FEB06*	5	06MAR06	238			0.00	3,372.31
1416B-245	Coil-to-Coil -Check and Promote	07MAR06	5	13MAR06	238			0.00	3,372.31
1416B-249	-Type-B Coil Asm Specification	11APR06*	5	17APR06	203			0.00	6,748.00
1416B-253	-Review and Approve Type-B Spec	18APR06	5	24APR06	203			0.00	3,372.31
1416B-257	-Update Coil Fab Procedures	25APR06	5	01MAY06	203			0.00	3,372.31
1416B-261	-Prepare and Conduct FDR	02MAY06*	5	08MAY06	203			0.00	6,748.00
1416B-262	TYPE B FDR		0	08MAY06	203			0.00	0.00
1416B-265	-Resolve FDR Comments	09MAY06	10	22MAY06	203			0.00	6,748.00
Job:1408-Mod Coil Winding Supplies-CHRZANOWSKI									
Prior Costs									
1408-001	Apr-Sep YTD MIE Cost PPPL	01APR03A	64	30SEP03A			100	29,790.00	29,790.00
Copper Conductor									
1408-141	Copper Conductor -Spec & Requisition	02AUG04A	3	27AUG04A			100	2,472.00	2,472.00
1408-142	Copper Conductor -Prep & Issue RFQ/RFP	30AUG04A	23*	30SEP04A			100	0.00	0.00
1408-143	Copper Conductor -Evaluate Bids & Award	30SEP04A	5	30SEP04A			100	0.00	0.00
1408-143.1	Mod Coil Copper Conductor Awarded		0	01OCT04A			100	0.00	0.00



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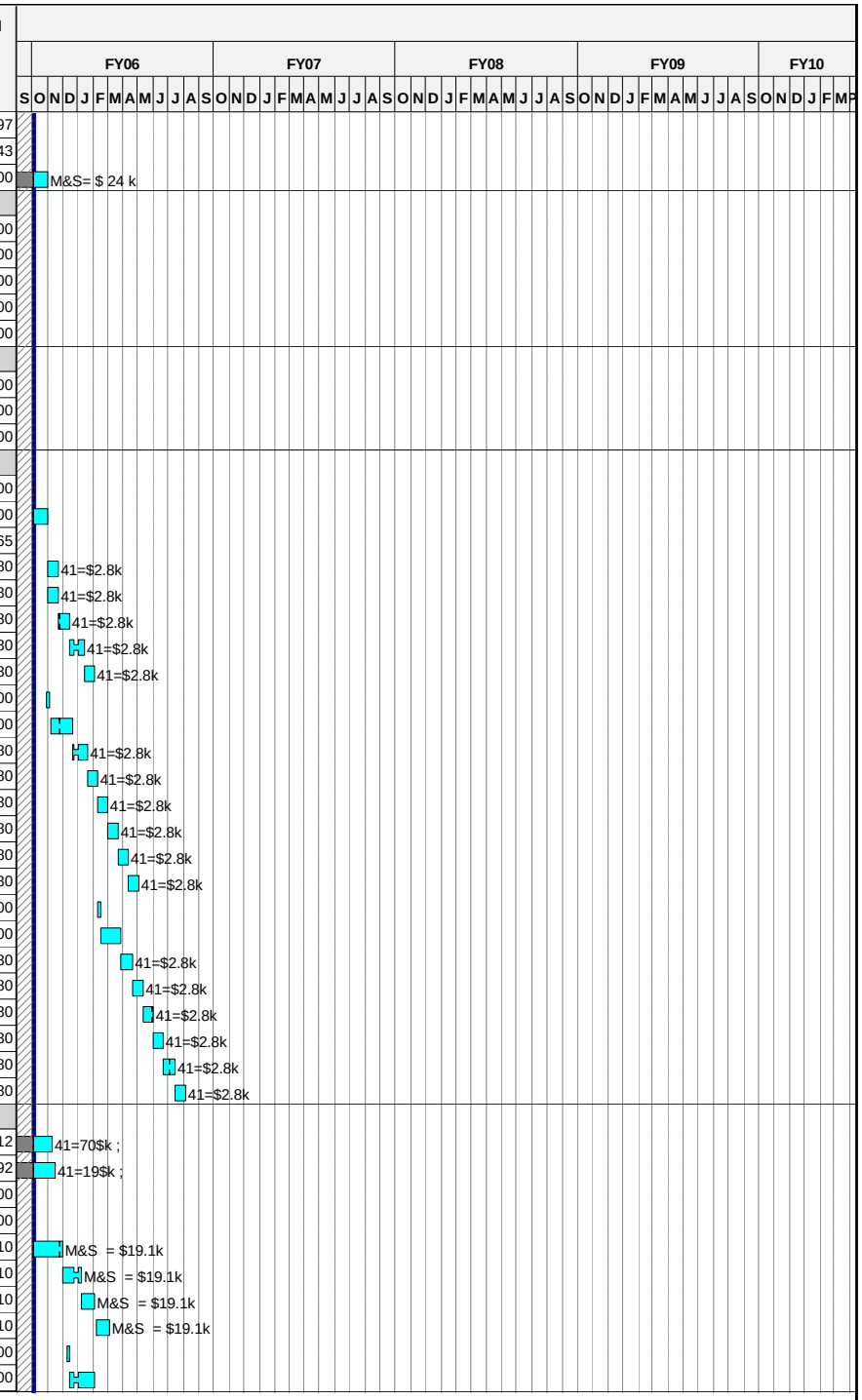
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
1408-147	Copper Conductor -Delivery #1 PE005371	01OCT04A	63*	23DEC04A			100	12,002.97	12,002.97
1408-145	Copper Conductor -Delivery #2 PE005371	01MAR05A	66*	29APR05A			100	228,056.43	228,056.43
1408-146	Add'l Copper Conductor f/trial winding	25JUL05A	71*	31OCT05	994		100	30,744.00	30,744.00
Insulation for conductor									
1408-101	Insulation-Spec & Requisition	09JUL04A	3*	13JUL04A			100	0.00	0.00
1408-103	Insulation-Prep & Issue RFQ/RFP	01AUG04A	10	20AUG04A			100	0.00	0.00
1408-104	Insulation-Evaluate Bids & Award	23AUG04A	5	31AUG04A			100	0.00	0.00
1408-107	Insulation-Initial Delivery for Production	31JAN05A	11	31JAN05A			100	6,405.00	6,405.00
1408-108	Insulation-Delivery incl add'l f/trial winding	01JUN05A	0*	30JUN05A			100	20,496.00	20,496.00
Groundwrap Insulation									
1408-110	Grndwrap Insulation-Spec & Requisition	03JAN05A	3	31JAN05A			100	0.00	0.00
1408-112	Grndwrap-Bid & Award	03JAN05A	3	31JAN05A			100	0.00	0.00
1408-112.1	Grndwrap-Delivery	31JAN05A	37*	28FEB05A			100	25,620.00	25,620.00
Cladding									
1408-501	Submet Requisition for Type C Cladding	03OCT05	1	03OCT05	201			0.00	0.00
1408-503	Bid and Award Type C Cladding	04OCT05	20	31OCT05	201			0.00	0.00
1408-505	PPPL Fabr Cladding Type C for Coil c1	01MAY05A	15	31MAY05A			100	3,586.65	3,586.65
1408-507	PPPL Fabr Cladding Type C for Coil c2	01NOV05	15	21NOV05	979			0.00	3,838.80
1408-509	Fabr Cladding Type C for Coil c3	01NOV05	15	21NOV05	201			0.00	3,838.80
1408-511	Fabr Cladding Type C for Coil c4	22NOV05	15	14DEC05	201			0.00	3,838.80
1408-513	Fabr Cladding Type C for Coil c5	15DEC05	15	12JAN06	201			0.00	3,838.80
1408-515	Fabr Cladding Type C for Coil c6	13JAN06	15	02FEB06	202			0.00	3,838.80
1408-517	Submet Requisition for Type A Cladding	31OCT05	5	04NOV05	224			0.00	0.00
1408-519	Bid and Award Type A Cladding	07NOV05	30	20DEC05	224			0.00	0.00
1408-521	Fabr Cladding Type A for Coil a1	21DEC05	15	18JAN06	224			0.00	3,838.80
1408-523	Fabr Cladding Type A for Coil a2	19JAN06	15	08FEB06	229			0.00	3,838.80
1408-525	Fabr Cladding Type A for Coil a3	09FEB06	15	01MAR06	241			0.00	3,838.80
1408-527	Fabr Cladding Type A for Coil a4	02MAR06	15	22MAR06	252			0.00	3,838.80
1408-529	Fabr Cladding Type A for Coil a5	23MAR06	15	12APR06	252			0.00	3,838.80
1408-531	Fabr Cladding Type A for Coil a6	13APR06	15	03MAY06	252			0.00	3,838.80
1408-533	Submet Requisition for Type B Cladding	09FEB06	5	15FEB06	226			0.00	0.00
1408-535	Bid and Award Type B Cladding	16FEB06	30	29MAR06	226			0.00	0.00
1408-537	Fabr Cladding Type B for Coil b1	30MAR06	15	19APR06	226			0.00	3,838.80
1408-539	Fabr Cladding Type B for Coil b2	20APR06	15	10MAY06	258			0.00	3,838.80
1408-541	Fabr Cladding Type B for Coil b3	11MAY06	15	01JUN06	301			0.00	3,838.80
1408-543	Fabr Cladding Type B for Coil b4	02JUN06	15	22JUN06	304			0.00	3,838.80
1408-545	Fabr Cladding Type B for Coil b5	23JUN06	15	14JUL06	324			0.00	3,838.80
1408-547	Fabr Cladding Type B for Coil b6	17JUL06	15	04AUG06	367			0.00	3,838.80
Lead hardware & Fillers									
1408-705	Fabr Lead HW Type C for Coil c1	01JUL05A	94*	10NOV05	142		50	46,068.56	92,137.12
1408-707	Fabr Lead HW Type C for Coil c2	01JUL05A	97*	15NOV05	164		50	12,254.96	24,509.92
1408-701	Submet Requisition for Type C3-C6 Lead HW	01AUG05A	5	05AUG05A				0.00	0.00
1408-703	Bid and Award Type C3-C6 Lead HW	08AUG05A	30	31AUG05A				0.00	0.00
1408-709	Fabr Lead HW Type C for Coil c3	03OCT05	42*	01DEC05	189			0.00	26,186.10
1408-711	Fabr Lead HW Type C for Coil c4	02DEC05	20	06JAN06	196			0.00	26,186.10
1408-713	Fabr Lead HW Type C for Coil c5	09JAN06	20	03FEB06	196			0.00	26,186.10
1408-715	Fabr Lead HW Type C for Coil c6	06FEB06	20	03MAR06	440			0.00	26,186.10
1408-717	Submet Requisition for Type A Lead HW	09DEC05	5	15DEC05	203			0.00	0.00
1408-719	Bid and Award Type A Lead HW	16DEC05	30	03FEB06	203			0.00	0.00



Run Date 25OCT05 11:35

ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
1408-721	Fabr Lead HW Type A for Coil a1	06FEB06	20	03MAR06	203			0.00	26,186.10
1408-723	Fabr Lead HW Type A for Coil a2	06MAR06	20	31MAR06	203			0.00	26,186.10
1408-725	Fabr Lead HW Type A for Coil a3	03APR06	20	28APR06	210			0.00	26,186.10
1408-727	Fabr Lead HW Type A for Coil a4	01MAY06	20	26MAY06	237			0.00	26,186.10
1408-729	Fabr Lead HW Type A for Coil a5	30MAY06	20	26JUN06	237			0.00	26,186.10
1408-731	Fabr Lead HW Type A for Coil a6	27JUN06	20	25JUL06	374			0.00	26,186.10
1408-733	Submet Requisition for Type B Lead HW	24FEB06	5	02MAR06	221			0.00	0.00
1408-735	Bid and Award Type B Lead HW	03MAR06	30	13APR06	221			0.00	0.00
1408-737	Fabr Lead HW Type B for Coil b1	14APR06	20	11MAY06	221			0.00	26,186.10
1408-739	Fabr Lead HW Type B for Coil b2	12MAY06	20	09JUN06	276			0.00	26,186.10
1408-741	Fabr Lead HW Type B for Coil b3	12JUN06	20	10JUL06	284			0.00	26,186.10
1408-743	Fabr Lead HW Type B for Coil b4	11JUL06	20	07AUG06	284			0.00	26,186.10
1408-745	Fabr Lead HW Type B for Coil b5	08AUG06	20	04SEP06	299			0.00	26,186.10
1408-747	Fabr Lead HW Type B for Coil b6	05SEP06	20	02OCT06	337			0.00	26,186.10
Chill Plates									
1408-601	Submet Requisition for Type C Chill Plts	04OCT05	5	10OCT05	156			0.00	0.00
1408-603	Bid and Award Type C Chill Plts	11OCT05	30	21NOV05	156			0.00	0.00
1408-605	Fabr Chill Plts Type C for Coil c1	22NOV05	20	21DEC05	156			0.00	3,838.80
1408-607	Fabr Chill Plts Type C for Coil c2	22DEC05	20	26JAN06	167			0.00	3,838.80
1408-609	Fabr Chill Plts Type C for Coil c3	27JAN06	20	23FEB06	170			0.00	3,838.80
1408-611	Fabr Chill Plts Type C for Coil c4	24FEB06	20	23MAR06	177			0.00	3,838.80
1408-613	Fabr Chill Plts Type C for Coil c5	24MAR06	20	20APR06	177			0.00	3,838.80
1408-615	Fabr Chill Plts Type C for Coil c6	21APR06	20	18MAY06	420			0.00	3,838.80
1408-617	Submet Requisition for Type A Chill Plts	14DEC05	5	20DEC05	235			0.00	0.00
1408-619	Bid and Award Type A Chill Plts	21DEC05	30	08FEB06	235			0.00	0.00
1408-621	Fabr Chill Plts Type A for Coil a1	09FEB06	20	08MAR06	235			0.00	3,838.80
1408-623	Fabr Chill Plts Type A for Coil a2	09MAR06	20	05APR06	235			0.00	3,838.80
1408-625	Fabr Chill Plts Type A for Coil a3	06APR06	20	03MAY06	242			0.00	3,838.80
1408-627	Fabr Chill Plts Type A for Coil a4	04MAY06	20	01JUN06	269			0.00	3,838.80
1408-629	Fabr Chill Plts Type A for Coil a5	02JUN06	20	29JUN06	270			0.00	3,838.80
1408-631	Fabr Chill Plts Type A for Coil a6	30JUN06	20	28JUL06	406			0.00	3,838.80
1408-633	Submet Requisition for Type B Chill Plts	11APR06	5	17APR06	224			0.00	0.00
1408-635	Bid and Award Type B Chill Plts	18APR06	30	30MAY06	224			0.00	0.00
1408-637	Fabr Chill Plts Type B for Coil b1	31MAY06	20	27JUN06	224			0.00	3,838.80
1408-639	Fabr Chill Plts Type B for Coil b2	28JUN06	20	26JUL06	280			0.00	3,838.80
1408-641	Fabr Chill Plts Type B for Coil b3	27JUL06	20	23AUG06	287			0.00	3,838.80
1408-643	Fabr Chill Plts Type B for Coil b4	24AUG06	20	20SEP06	287			0.00	3,838.80
1408-645	Fabr Chill Plts Type B for Coil b5	21SEP06	20	18OCT06	301			0.00	3,838.80
1408-647	Fabr Chill Plts Type B for Coil b6	19OCT06	20	15NOV06	340			0.00	3,838.80
Tubing									
1408-761	Submet Requisition for Tubing	17OCT05	5	21OCT05	172			0.00	0.00
1408-763	Bid and Award Tubing	24OCT05	15	11NOV05	172			0.00	0.00
1408-765	Deliver Tubing	14NOV05	10	29NOV05	172			0.00	2,742.00
Epoxy									
1408-111	Epoxy - Requisition	01JAN05A	5	31JAN05A			100	0.00	0.00
1408-114	Epoxy -Evaluate Bids & Award	01MAY05A	10	31MAY05A			100	0.00	0.00
1408-117	Epoxy -1st Delivery for Production	01FEB06	20	28FEB06	230			0.00	20,565.00
1408-119	Epoxy -2nd Delivery for Production	07APR06	20	04MAY06	207			0.00	20,565.00
1408-121	Epoxy -3rd Delivery for Production	26OCT06	20	22NOV06	137			0.00	20,565.00

Run Date 25OCT05 11:35

ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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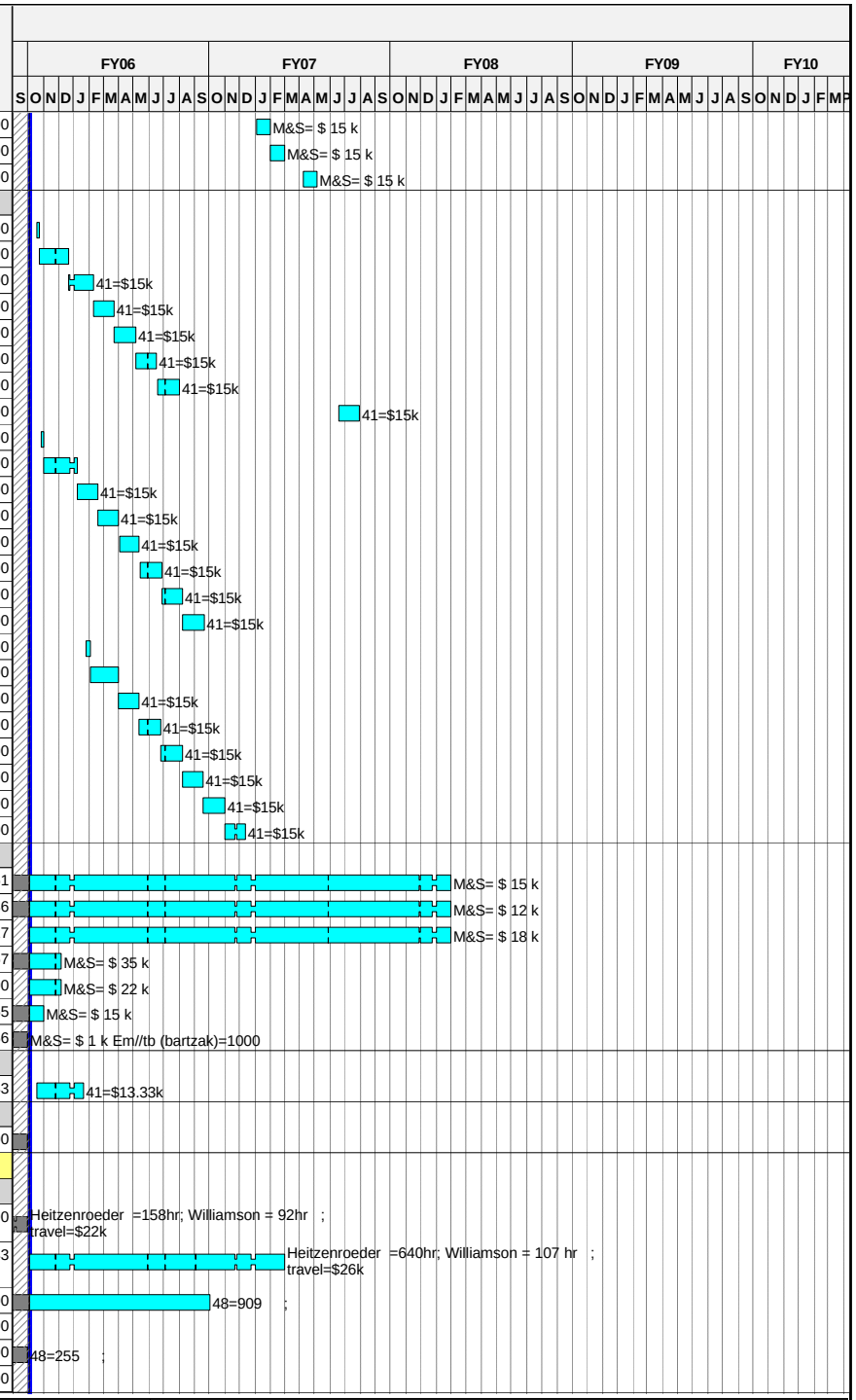
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
1408-123	Epoxy -4th Delivery for Production	04JAN07	20	31JAN07	137			0.00	20,565.00
1408-125	Epoxy -5th Delivery for Production	01FEB07	20	28FEB07	163			0.00	20,565.00
1408-127	Epoxy -6th Delivery for Production	09APR07	20	04MAY07	156			0.00	20,565.00
Clamps									
1408-901	Submet Requisition for Type C Clamps	18OCT05	5	24OCT05	195			0.00	0.00
1408-903	Bid and Award Type C Clamps	25OCT05	40	21DEC05	195			0.00	0.00
1408-905	Fabr Clamps Type C for Coil c1	22DEC05	30	09FEB06	195			0.00	20,565.00
1408-907	Fabr Clamps Type C for Coil c2	10FEB06	30	23MAR06	195			0.00	20,565.00
1408-909	Fabr Clamps Type C for Coil c3	24MAR06	30	04MAY06	195			0.00	20,565.00
1408-911	Fabr Clamps Type C for Coil c4	05MAY06	30	16JUN06	195			0.00	20,565.00
1408-913	Fabr Clamps Type C for Coil c5	19JUN06	30	31JUL06	195			0.00	20,565.00
1408-915	Fabr Clamps Type C for Coil c6	19JUN07	30	30JUL07	172			0.00	20,565.00
1408-917	Submet Requisition for Type A Clamps	26OCT05	5	01NOV05	276			0.00	0.00
1408-919	Bid and Award Type A Clamps	02NOV05	40	06JAN06	276			0.00	0.00
1408-921	Fabr Clamps Type A for Coil a1	09JAN06	30	17FEB06	276			0.00	20,565.00
1408-923	Fabr Clamps Type A for Coil a2	20FEB06	30	31MAR06	276			0.00	20,565.00
1408-925	Fabr Clamps Type A for Coil a3	03APR06	30	12MAY06	276			0.00	20,565.00
1408-927	Fabr Clamps Type A for Coil a4	15MAY06	30	26JUN06	288			0.00	20,565.00
1408-929	Fabr Clamps Type A for Coil a5	27JUN06	30	08AUG06	316			0.00	20,565.00
1408-931	Fabr Clamps Type A for Coil a6	09AUG06	30	19SEP06	396			0.00	20,565.00
1408-933	Submet Requisition for Type B Clamps	27JAN06	5	02FEB06	286			0.00	0.00
1408-935	Bid and Award Type B Clamps	03FEB06	40	30MAR06	286			0.00	0.00
1408-937	Fabr Clamps Type B for Coil b1	31MAR06	30	11MAY06	286			0.00	20,565.00
1408-939	Fabr Clamps Type B for Coil b2	12MAY06	30	23JUN06	298			0.00	20,565.00
1408-941	Fabr Clamps Type B for Coil b3	26JUN06	30	07AUG06	323			0.00	20,565.00
1408-943	Fabr Clamps Type B for Coil b4	08AUG06	30	18SEP06	323			0.00	20,565.00
1408-945	Fabr Clamps Type B for Coil b5	19SEP06	30	30OCT06	346			0.00	20,565.00
1408-947	Fabr Clamps Type B for Coil b6	31OCT06	30	13DEC06	346			0.00	20,565.00
Other									
1408-137	Safety & PPE equipt & supplies	01MAY05A	689*	31JAN08	434		20	4,082.52	20,412.61
1408-138	Misc. Supplies	01JUL05A	646*	31JAN08	434		50	8,196.93	16,393.86
1408-173	Epoxy for Shell Mold (Hysol)	03OCT05*	581*	31JAN08	434			0.00	24,762.27
1408-183	Tubing (Chem flor and Poly)	01SEP05A	67*	06DEC05	970		50	23,475.34	46,950.67
1408-184	Vulcanizing tape, felt and RTV	03OCT05*	45	06DEC05	970			0.00	30,162.00
1408-185	Valves and Fittings	01AUG05A	66*	31OCT05	994		50	13,394.01	19,644.55
1408-186	Manifolds	01SEP05A	209	30SEP05A			100	75,850.56	75,850.56
I&C									
174-035	Modular Coil local I&C -Procurement	17OCT05	60	18JAN06	295			0.00	18,275.43
FY05CV-21	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				33,000.00	33,000.00
Job: 1411-MCWF Fabrication S005242-HEITZENROEDER									
172-031	Title III engr	24MAY04A	340*	30SEP05A			LOE	76,273.90	76,273.90
172-031.1	Title III engr	03OCT05*	350*	01MAR07	660		LOE	0.00	167,147.43
MCWF-001	EIO Project Mgt. & Reporting	29OCT04A	497*	02OCT06	773		54	490,768.20	908,830.00
MCWF-011	Pattern A complete	29OCT04A	126*	01APR05A			100	290,125.00	290,125.00
MCWF-021	Pattern B complete	01DEC04A	220*	30SEP05A			100	255,120.00	255,120.00
MCWF-031	Major Tool Tooling Complete	29OCT04A	82*	28FEB05A			100	628,622.00	628,622.00



Run Date 25OCT05 11:35

ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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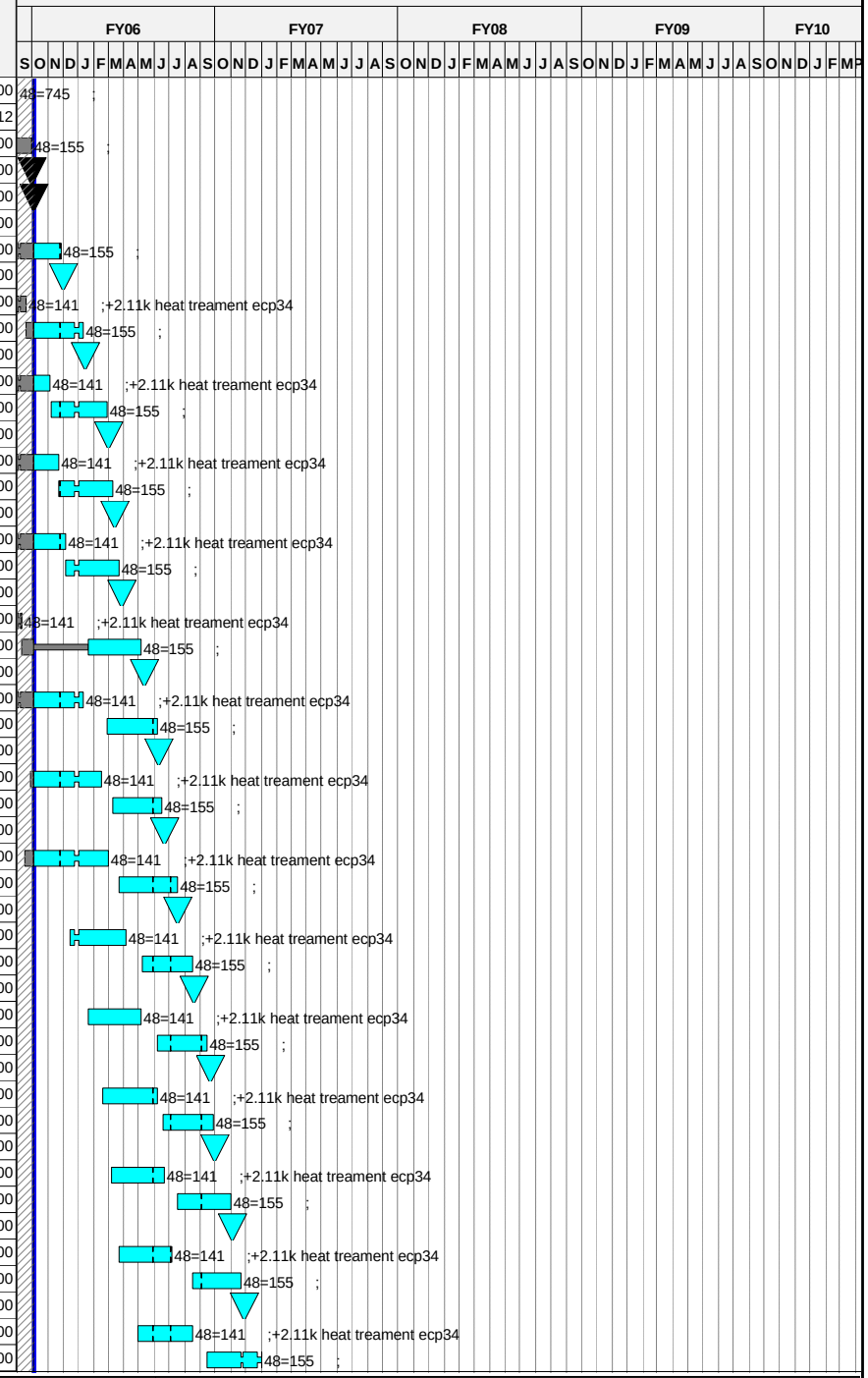
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
MCWF-041	Materials (MetalTek)	29NOV04A	282*	31AUG05			100	744,750.00	744,750.00
MCWF-051	C1-MTK-casting upgrade	20DEC04A	63*	31MAR05			100	146,248.12	146,248.12
MCWF-061	C1-MTM - machining/inspection	01APR05A	136*	30SEP05A		M	100	154,910.00	154,910.00
C-121.1	First MCWF C-1 Delivered		0	30SEP05A				0.00	0.00
MCWF-071	C1-Receive at PPPL		0	03OCT05		CD		0.00	0.00
MCWF-081	C2-MTK-casting	01APR05A	66*	27JUN05A			100	142,920.00	142,920.00
MCWF-091	C2-MTM - machining/inspection	28JUN05A	106*	28NOV05	141		75	116,182.50	154,910.00
MCWF-101	C2-Receive at PPPL		0	29NOV05	145			0.00	0.00
MCWF-141	C3-MTK-casting	12MAY05A	102*	19SEP05A			100	142,920.00	142,920.00
MCWF-151	C3-MTM - machining/inspection	20SEP05A	74*	11JAN06	145		5	7,745.50	154,910.00
MCWF-161	C3-Receive at PPPL		0	13JAN06	152			0.00	0.00
MCWF-201	C4-MTK-casting	16MAY05A	122*	04NOV05	143		85	121,482.00	142,920.00
MCWF-211	C4-MTM - machining/inspection	07NOV05*	73*	27FEB06	143		5	7,745.50	154,910.00
MCWF-221	C4-Receive at PPPL		0	01MAR06	146			0.00	0.00
MCWF-261	C5-MTK-casting	30MAY05A	123*	21NOV05	148		75	107,190.00	142,920.00
MCWF-271	C5-MTM - machining/inspection	22NOV05*	70	09MAR06	148		2	3,098.20	154,910.00
MCWF-281	C5-Receive at PPPL		0	13MAR06	158			0.00	0.00
MCWF-291	C6-MTK-casting	16JUN05A	121*	07DEC05	134		65	92,898.00	142,920.00
MCWF-301	C6-MTM - machining/inspection	08DEC05	70	23MAR06	134			0.00	154,910.00
MCWF-311	C6-Receive at PPPL		0	27MAR06	164			0.00	0.00
MCWF-111	A1-MTK-casting	22APR05A	116*	08SEP05A			100	143,110.00	143,110.00
MCWF-121	A1-MTM - machining/inspection	09SEP05A	93*	05MAY06	143		10	15,491.00	154,910.00
MCWF-131	A1-Receive at PPPL		0	10MAY06	143			0.00	0.00
MCWF-171	A2-MTK-casting	17AUG05A	65	11JAN06	176		50	71,460.00	142,920.00
MCWF-181	A2-MTM - machining/inspection	28FEB06	70	06JUN06	143			0.00	154,910.00
MCWF-191	A2-Receive at PPPL		0	08JUN06	143			0.00	0.00
MCWF-351	A3-MTK-casting	26SEP05A	96*	16FEB06	163		2	2,862.20	143,110.00
MCWF-361	A3-MTM - machining/inspection	10MAR06	70	16JUN06	148			0.00	154,910.00
MCWF-371	A3-Receive at PPPL		0	21JUN06	161			0.00	0.00
MCWF-231	B1-MTK-casting	16SEP05A	111*	01MAR06	150		5	7,146.00	142,920.00
MCWF-241	B1-MTM - machining/inspection	24MAR06	80	17JUL06	134			0.00	154,910.00
MCWF-251	B1-Receive at PPPL		0	19JUL06	162			0.00	0.00
MCWF-381	A4-MTK-casting	15DEC05*	75	06APR06	175			0.00	142,920.00
MCWF-391	A4-MTM - machining/inspection	08MAY06	70	15AUG06	154			0.00	154,910.00
MCWF-401	A4-Receive at PPPL		0	18AUG06	154			0.00	0.00
MCWF-411	A5-MTK-casting	20JAN06*	75	04MAY06	166			0.00	142,920.00
MCWF-421	A5-MTM - machining/inspection	07JUN06	70	14SEP06	144			0.00	154,910.00
MCWF-431	A5-Receive at PPPL		0	19SEP06	144			0.00	0.00
MCWF-441	A6-MTK-casting	20FEB06*	75	05JUN06	157			0.00	142,920.00
MCWF-451	A6-MTM - machining/inspection	19JUN06	70	26SEP06	148			0.00	155,000.00
MCWF-461	A6-Receive at PPPL		0	28SEP06	148			0.00	0.00
MCWF-321	B2-MTK-casting	08MAR06*	75	21JUN06	151			0.00	142,920.00
MCWF-331	B2-MTM - machining/inspection	18JUL06	75	31OCT06	134			0.00	154,910.00
MCWF-341	B2-Receive at PPPL		0	02NOV06	134			0.00	0.00
MCWF-471	B3-MTK-casting	23MAR06*	75	07JUL06	202			0.00	142,920.00
MCWF-481	B3-MTM - machining/inspection	16AUG06	70	22NOV06	175			0.00	154,910.00
MCWF-491	B3-Receive at PPPL		0	28NOV06	175			0.00	0.00
MCWF-501	B4-MTK-casting	01MAY06*	75	15AUG06	192			0.00	142,920.00
MCWF-511	B4-MTM - machining/inspection	15SEP06	70	02JAN07	171			0.00	154,910.00



Run Date 25OCT05 11:35

ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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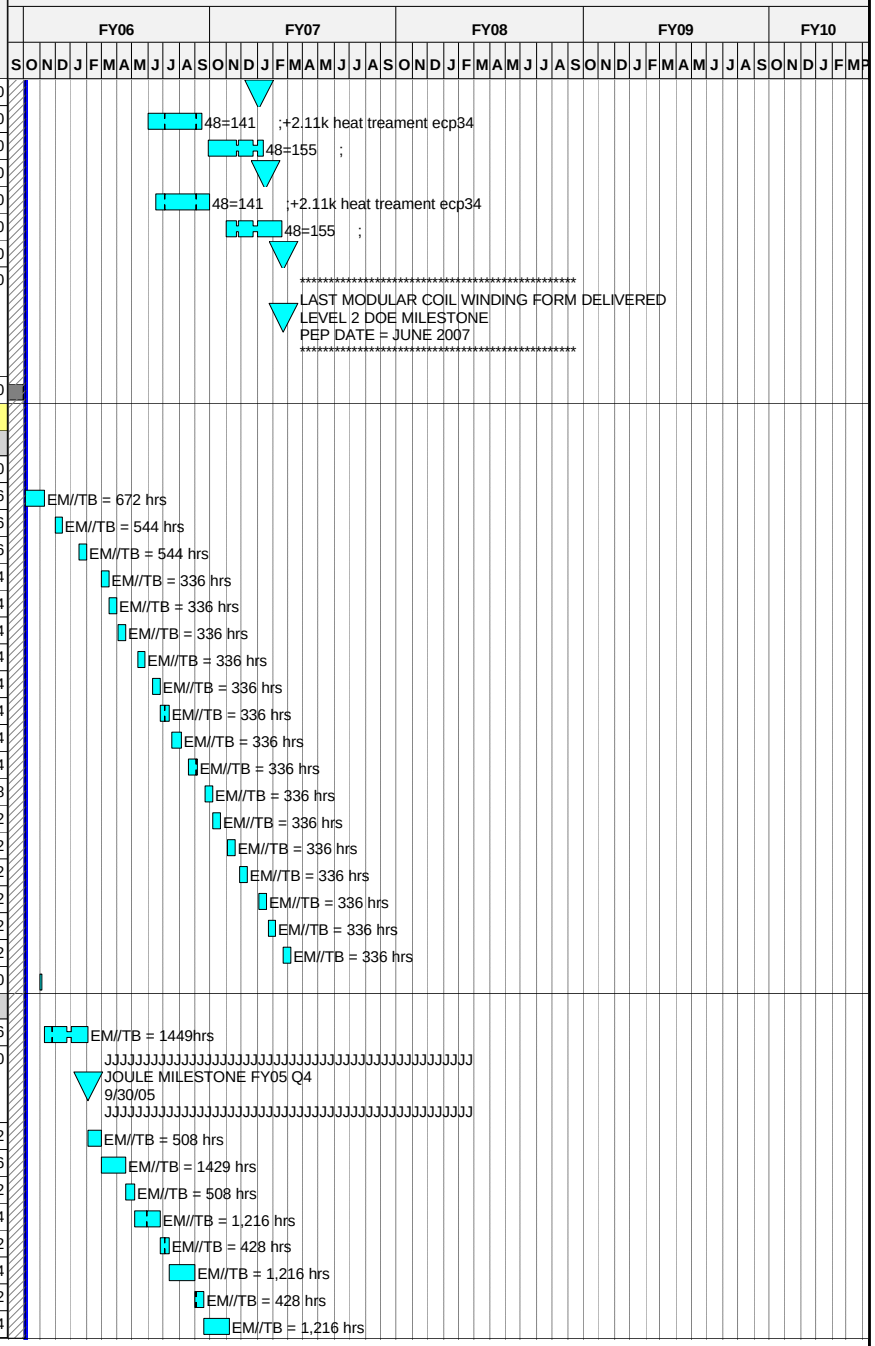
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
MCWF-521	B4-Receive at PPPL		0	04JAN07	171			0.00	0.00
MCWF-531	B5-MTK-casting	01JUN06*	75	15SEP06	204			0.00	142,920.00
MCWF-541	B5-MTM - machining/inspection	27SEP06	70	12JAN07	197			0.00	154,910.00
MCWF-551	B5-Receive at PPPL		0	17JAN07	197			0.00	0.00
MCWF-561	B6-MTK-casting	15JUN06*	75	29SEP06	253			0.00	142,920.00
MCWF-571	B6-MTM - machining/inspection	01NOV06	70	16FEB07	231			0.00	154,910.00
MCWF-581	B6-Receive at PPPL		0	21FEB07	231			0.00	0.00
C-501B1	Last MCWF Delivered		0	21FEB07	231			0.00	0.00
FY05CV-23	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				275,000.00	275,000.00
Job: 1451 - Mod Coil Winding-CHRZANOWSKI									
Station 1 Prep casring & Install Cladding									
1451TRAIN	Training for winding teams	25JUL05A	3	29JUL05A				0.00	0.00
P1-001	Rec C1,Prep& Instl Cladding>>@125% 1 shift	03OCT05	28	09NOV05	131	1	7	3,668.18	52,402.56
P1-091	Receive C2, Prep& Instl Cladding	30NOV05	11	14DEC05	145	2		0.00	44,303.36
P2-091	Receive C3, Prep& Instl Cladding	16JAN06	11	30JAN06	152	2		0.00	44,303.36
P3-091	Receive C4, Prep& Instl Cladding	02MAR06	11	16MAR06	146	2		0.00	27,363.84
P1-121	Receive C5, Prep& Instl Cladding	17MAR06	11	31MAR06	155	2		0.00	27,363.84
P2-031	Receive C6, Prep& Instl Cladding	03APR06	11	17APR06	160	2		0.00	27,363.84
P2-001	Receive A1, Prep& Instl Cladding	11MAY06	11	25MAY06	143	2		0.00	27,363.84
P3-001	Receive A2, Prep& Instl Cladding	09JUN06	11	23JUN06	143	2		0.00	27,363.84
P3-031	Receive A3, Prep& Instl Cladding	26JUN06	11	11JUL06	159	2		0.00	27,363.84
P1-031	Receive B1, Prep& Instl Cladding	20JUL06	11	03AUG06	162	2		0.00	27,363.84
P3-121	Receive A4, Prep& Instl Cladding	21AUG06	11	05SEP06	154	2		0.00	27,363.84
P1-061	Receive A5, Prep& Instl Cladding	20SEP06	11	04OCT06	144	2		0.00	27,734.08
P1-151	Receive A6, Prep& Instl Cladding	05OCT06	11	19OCT06	144	2		0.00	27,961.92
P2-121	Receive B2, Prep& Instl Cladding	03NOV06	11	17NOV06	134	2		0.00	27,961.92
P2-061	Receive B3, Prep& Instl Cladding	29NOV06	11	13DEC06	175	2		0.00	27,961.92
P2-151	Receive B4, Prep& Instl Cladding	05JAN07	11	19JAN07	171	2		0.00	27,961.92
P3-061	Receive B5, Prep& Instl Cladding	22JAN07	11	05FEB07	195	2		0.00	27,961.92
P3-151	Receive B6, Prep& Instl Cladding	22FEB07	11	08MAR07	231	2		0.00	27,961.92
P1-000	ECP36 holes for cooling lines included in above	03NOV05*	1	03NOV05	986			0.00	0.00
Station 2-Winding, Instl Chill Plates,Tubing,Bag									
P1-011	Wind coil C1>>@150%	10NOV05	53	02FEB06	131	2		0.00	118,006.56
P1-011J	Complete Winding First Modular Coil		0	02FEB06	131	2		0.00	0.00
P1-020	Instl Chill Plates,Tubing, Bag C1>>@150%	03FEB06	18	28FEB06	131	2		0.00	41,371.52
P2-101	Wind coil C-3	01MAR06	35	18APR06	131	2		0.00	116,377.76
P2-110	Instl Chill Plates,Tubing,Bag C3	19APR06	12	04MAY06	131	2		0.00	41,371.52
P1-131	Wind coil C5	05MAY06	35	23JUN06	131	2		0.00	99,031.04
P1-140	Instl Chl Plates,Tubing, Bag C5	26JUN06	12	12JUL06	131	2		0.00	34,856.32
P3-011	Wind coil A2	13JUL06	35	30AUG06	131	2		0.00	99,031.04
P3-020	Instl Chill Plates,Tubing, Bag A2	31AUG06	12	18SEP06	131	2		0.00	34,856.32
P1-041	Wind coil B1	19SEP06	35	06NOV06	131	2		0.00	100,638.94



Run Date 25OCT05 11:35

ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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Activity ID	Activity Description	Baseline Start	Duration (work days)	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget	FY06 – FY10
P2-041JOUL	JOULE FY07 Cmplt winding one-half modular coils		0	**06NOV06**	***131***	***2***		***0.00***	0.00	COMPLETE WINDING ONE-HALF OF MOD COILS FY2007 JOULE MILESTONE
P1-050	Instl Chl Plates,Tubing, Bag B1	**07NOV06**	12	**22NOV06**	***131***	***2***		***0.00***	35,618.16	EM//TB = 428 hrs
P1-071	Wind coil B2	**27NOV06**	35	**22JAN07**	***131***	***2***		***0.00***	101,195.52	EM//TB = 1216 hrs
P1-080	Instl Chl Plates,Tubing,Bag B2	**23JAN07**	12	**07FEB07**	***131***	***2***		***0.00***	35,618.16	EM//TB = 428hrs
P2-071	Wind coil B3	**08FEB07**	35	**28MAR07**	***141***	***2***		***0.00***	101,195.52	EM//TB =1216 hrs
P2-080	Instl Chill Plates,Tubing,Bag B3	**29MAR07**	12	**13APR07**	***141***	***2***		***0.00***	35,618.16	EM//TB = 428hrs
P3-071	Wind coil B5	**16APR07**	35	**04JUN07**	***146***	***2***		***0.00***	101,195.52	EM//TB = 1216 hrs
P3-080	Instl Chill Plates,Tubing,Bag B5	**05JUN07**	12	**20JUN07**	***146***	***2***		***0.00***	35,618.16	EM//TB = 428hrs
P1-161	Wind coil A6	**21JUN07**	35	**09AUG07**	***146***	***2***		***0.00***	101,195.52	EM//TB =1216 hrs
P1-170	Instl Chill Plates,Tubing,Bag A6	**10AUG07**	12	**27AUG07**	***146***	***2***		***0.00***	35,618.16	EM//TB = 428 hrs
174-037	Modular Coil local I&C -Install (from wbs 143)	**03FEB06**	348*	**20JUN07**	***147***			***0.00***	69,734.93	em//sm=172; em//tb=576
SSD-ST2	Second shift cost differential	**10NOV05**	449*	**27AUG07**	***146***			***0.00***	32,000.00	
Station 3-Winding, Instl Chill Plates,Tubing,Bag										
P1-101	Wind coil C-2>>@125%	**15DEC05**	46	**24FEB06**	***145***	***2***		***0.00***	116,377.76	EM//TB = 1429 hrs
P1-110	Instl Chill Plates,Tubing,Bag C2>>@125%	**27FEB06**	15	**17MAR06**	***145***	***2***		***0.00***	41,371.52	EM//TB = 508 hrs
P3-101	Wind coil C4	**20MAR06**	35	**05MAY06**	***145***	***2***		***0.00***	99,031.04	EM//TB = 1,216 hrs
P3-110	Instl Chill Plates,Tubing, Bag C4	**08MAY06**	12	**23MAY06**	***145***	***2***		***0.00***	34,856.32	EM//TB = 428 hrs
P2-011	Wind coil A1	**26MAY06**	35	**17JUL06**	***143***	***2***		***0.00***	99,031.04	EM//TB = 1,216 hrs
P2-020	Instl Chill Plates,Tubing, Bag A1	**18JUL06**	12	**02AUG06**	***143***	***2***		***0.00***	34,856.32	EM//TB = 428 hrs
P3-041	Wind coil A3	**03AUG06**	35	**21SEP06**	***143***	***2***		***0.00***	99,031.04	EM//TB = 1,216 hrs
P3-050	Instl Chl Plates,Tubing, Bag A3	**22SEP06**	12	**09OCT06**	***143***	***2***		***0.00***	35,237.24	EM//TB = 428 hrs
P3-131	Wind coil A4	**10OCT06**	35	**29NOV06**	***143***	***2***		***0.00***	101,195.52	EM//TB = 1,216 hrs
P3-140	Instl Chl Plates,Tubing, Bag A4	**30NOV06**	12	**15DEC06**	***143***	***2***		***0.00***	35,618.16	EM//TB = 428 hrs
P2-131	Wind coil A5	**18DEC06**	35	**12FEB07**	***143***	***2***		***0.00***	101,195.52	EM//TB = 1,216 hrs
P2-140	Instl Chl Plates,Tubing, Bag A5	**13FEB07**	12	**28FEB07**	***143***	***2***		***0.00***	35,618.16	EM//TB = 428 hrs
P2-161	Wind coil B4	**01MAR07**	35	**18APR07**	***143***	***2***		***0.00***	101,195.52	EM//TB = 1216 hrs
P2-170	Instl Chill Plates,Tubing,Bag B4	**19APR07**	12	**04MAY07**	***143***	***2***		***0.00***	35,618.16	EM//TB = 428 hrs
P2-041	Wind coil C6	**07MAY07**	35	**25JUN07**	***143***	***2***		***0.00***	101,195.52	EM//TB = 1216 hrs
P2-050	Instl Chl Plates,Tubing, Bag C6	**26JUN07**	12	**12JUL07**	***143***	***2***		***0.00***	35,618.16	EM//TB = 428hrs
P3-161	Wind coil B6	**13JUL07**	35	**30AUG07**	***143***	***2***		***0.00***	101,195.52	EM//TB = 1216 hrs
P3-170	Instl Chill Plates,Tubing,Bag B6	**31AUG07**	12	**18SEP07**	***143***	***2***		***0.00***	35,618.16	EM//TB = 428 hrs
SSD-ST3	Second shift cost differential	**15DEC05**	442*	**18SEP07**	***142***			***0.00***	32,000.00	
Station 5-VPI										
P1-021V	VPI (Station 5) C1	**01MAR06**	12	**16MAR06**	***229***			***0.00***	26,712.32	EM//TB = 328 hrs
P1-111V	VPI (Station 5) C2	**20MAR06**	12	**04APR06**	***228***			***0.00***	26,712.32	EM//TB = 328 hrs
P2-111V	VPI (Station 5) C3	**05MAY06**	12	**22MAY06**	***206***			***0.00***	26,712.32	EM//TB = 328 hrs
P3-111V	VPI (Station 5) C4	**24MAY06**	12	**09JUN06**	***205***			***0.00***	26,712.32	EM//TB = 328 hrs
P1-141V	VPI (Station 5) C5	**13JUL06**	12	**28JUL06**	***183***			***0.00***	26,712.32	EM//TB = 328 hrs
P2-021V	VPI (Station 5) A1	**03AUG06**	12	**18AUG06**	***180***			***0.00***	26,712.32	EM//TB = 328 hrs
P3-021V	VPI (Station 5) A2	**19SEP06**	12	**04OCT06**	***160***			***0.00***	26,858.28	EM//TB = 328 hrs
P3-051V	VPI (Station 5) A3	**10OCT06**	12	**25OCT06**	***157***			***0.00***	27,296.16	EM//TB = 328 hrs
P1-051V	VPI (Station 5) B1	**27NOV06**	12	**12DEC06**	***137***			***0.00***	27,296.16	EM//TB = 328 hrs
P3-141V	VPI (Station 5) A4	**18DEC06**	12	**10JAN07**	***151***			***0.00***	27,296.16	EM//TB = 328 hrs
P1-081V	VPI (Station 5) A5	**01MAR07**	12	**16MAR07**	***161***			***0.00***	27,296.16	EM//TB = 328 hrs
P2-141V	VPI (Station 5) B2	**08FEB07**	12	**23FEB07**	***131***			***0.00***	27,296.16	EM//TB = 328 hrs
P2-081V	VPI (Station 5) B3	**16APR07**	12	**01MAY07**	***141***			***0.00***	23,218.38	EM//TB = 328 hrs
P3-081V	VPI (Station 5) B4	**07MAY07**	12	**22MAY07**	***154***			***0.00***	23,218.38	EM//TB = 328hrs

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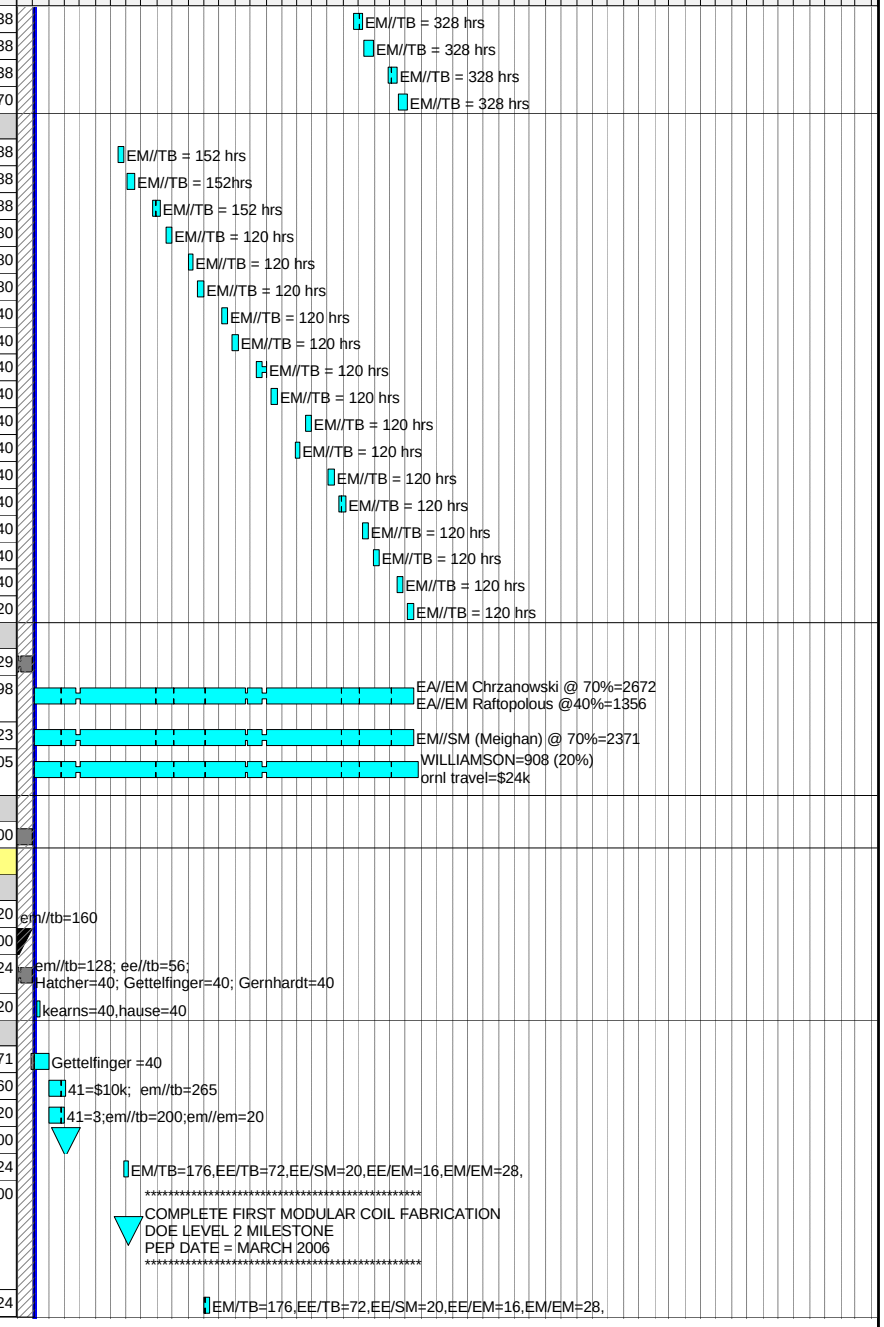
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
P2-171V	VPI (Station 5) B5	21JUN07	12	09JUL07	169			0.00	23,218.38
P2-051V	VPI (Station 5) C6	13JUL07	12	30JUL07	166			0.00	23,218.38
P1-171V	VPI (Station 5) A6	28AUG07	12	13SEP07	146			0.00	23,218.38
P3-171V	VPI (Station 5) B6	19SEP07	12	04OCT07	143			0.00	23,426.70
Station 1B Final Clamp Installation									
P1-021C	Final Clamps & Warm Test (Station1) C1	17MAR06	9	29MAR06	253			0.00	12,378.88
P1-111C	Final Clamps & Warm Test (Station1) C2	05APR06	9	17APR06	249			0.00	12,378.88
P2-111C	Final Clamps & Warm Test (Station1) C3	23MAY06	9	05JUN06	224			0.00	12,378.88
P3-111C	Final Clamps & Warm Test (Station1) C4	19JUN06	9	29JUN06	215			0.00	9,772.80
P1-141C	Final Clamps & Warm Test (Station1) C5	01AUG06	9	11AUG06	194			0.00	9,772.80
P2-021C	Final Clamps & Warm Test (Station1) A1	21AUG06	9	31AUG06	189			0.00	9,772.80
P3-021C	Final Clamps & Warm Test (Station1) A2	05OCT06	9	17OCT06	166			0.00	9,986.40
P3-051C	Final Clamps & Warm Test (Station1) A3	26OCT06	9	07NOV06	160			0.00	9,986.40
P1-051C	Final Clamps & Warm Test (Station1) B1	13DEC06	9	02JAN07	137			0.00	9,986.40
P3-141C	Final Clamps & Warm Test (Station1) A4	11JAN07	9	23JAN07	154			0.00	9,986.40
P1-081C	Final Clamps & Warm Test (Station1) A5	19MAR07	9	29MAR07	164			0.00	9,986.40
P2-141C	Final Clamps & Warm Test (Station1) B2	26FEB07	9	08MAR07	131			0.00	9,986.40
P2-081C	Final Clamps & Warm Test (Station1) B3	02MAY07	9	14MAY07	141			0.00	9,986.40
P3-081C	Final Clamps & Warm Test (Station1) B4	23MAY07	9	05JUN07	154			0.00	9,986.40
P3-171C	Final Clamps & Warm Test (Station1) B5	10JUL07	9	20JUL07	178			0.00	9,986.40
P2-051C	Final Clamps & Warm Test (Station1) C6	31JUL07	9	10AUG07	172			0.00	9,986.40
P1-171C	Final Clamps & Warm Test (Station1) A6	14SEP07	9	26SEP07	149			0.00	9,986.40
P2-171C	Final Clamps & Warm Test (Station1) B6	05OCT07	9	17OCT07	143			0.00	10,255.20
LOE Oversight & Supervision									
171-000	Winding Preparations (LOE) FY05	01AUG05A	49*	30SEP05A				53,382.29	53,382.29
171-040	Winding Oversight (LOE)	03OCT05	511*	17OCT07	143			0.00	656,630.98
171-041	Tech Supervision	03OCT05	511*	17OCT07	143			0.00	307,643.23
TITLE3W	Titel III Design ORNL- Component Fab & WINDING	03OCT05*	517*	25OCT07	493			0.00	196,084.05
FY05CV-25	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				81,000.00	81,000.00
Job: 1414 Coil Testing-Gettelfinger									
Twisted Racetrack Hardware Fabrication									
1409-141	Modify Cryostat for TRC	01APR05A	107*	31AUG05A			100	11,923.20	11,923.20
1406-020	Begin Testing of Twisted RT in Coil test Stand	31AUG05A	0				100	0.00	0.00
1406-021	Test Coil	10AUG05A	37*	30SEP05A			100	30,844.24	30,844.24
1406-023	Hi-pot & Dissect Coil	10OCT05*	5	14OCT05	1,000			0.00	6,515.20
Production Modular Coils									
1409-130	Production Cryostat Design	26SEP05A	26*	31OCT05	402		50	3,419.86	6,839.71
1409-135	Production Cryostat Fabr & Install	01NOV05*	22*	02DEC05	402			0.00	35,291.60
1409-136	Valve/pump repairs&safety mods to cryo pp sys	01NOV05*	21*	01DEC05	403			0.00	23,871.20
1409-199	Closed Loop Facility Available for Production MC		0	02DEC05	402			0.00	0.00
P1-021	Test Coil (Coil Test Stand) C1	30MAR06	7	07APR06	325			0.00	30,321.24
P1-021.1	Complete First Mod Coil Fabrication C1		0	07APR06	325			0.00	0.00
P2-021	Test Coil (Coil Test Stand) A1	01SEP06	7	12SEP06	216			0.00	30,321.24



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ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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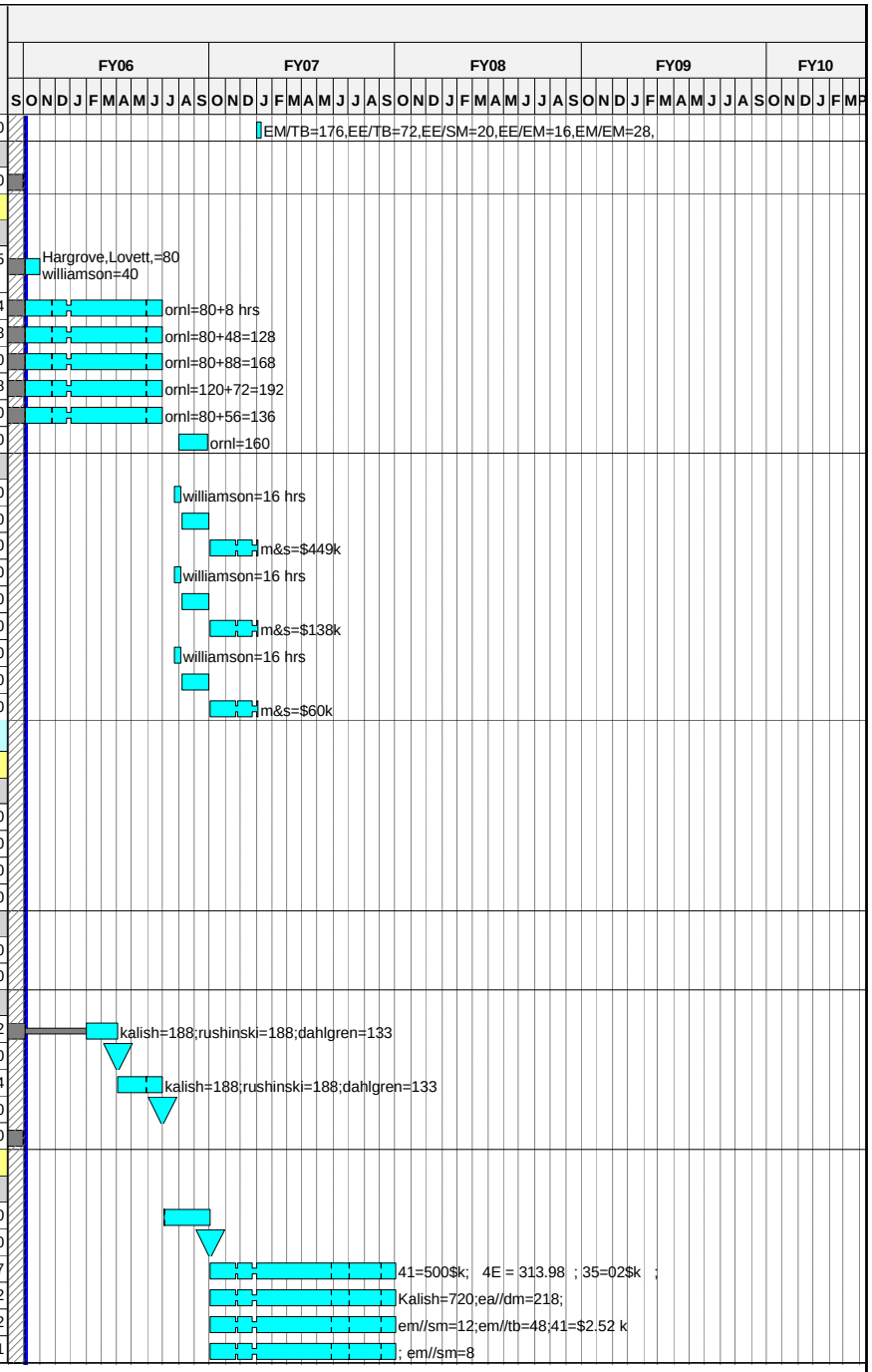
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
P1-051	Test Coil (Coil Test Stand) B1	03JAN07	7	11JAN07	137			0.00	30,983.60
FY05CV-19	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				88,000.00	88,000.00
Job: 1421-Mod Coil Interface Hardware-WILLIAMSON									
Coil-to-coil Interface Design									
1403-11.1	Compl assembly / interface drawings for ICDs	01NOV04A	251*	31OCT05	994		80	24,983.40	31,229.25
1403-16	Assembly bolts, nuts,washers	01OCT04A	437*	30JUN06	158		60	8,491.88	14,153.14
1403-17	Assembly shims	01OCT04A	437*	30JUN06	158		60	12,351.83	20,586.38
1403-18	Eccentric ball assembly	08NOV04A	411*	30JUN06	829		60	8,124.48	27,081.60
1403-19	Top assembly dwgs for mod coil shell	01OCT04A	437*	30JUN06	829		60	11,425.44	30,879.58
1403-19A	Bladder Details	01JUL05A	251*	30JUN06	158		20	2,246.07	22,460.70
1403-20	3 coil assembly specification	01AUG06*	40	25SEP06	208			0.00	26,992.00
1421-100	Submet Requisition for - Assy	24JUL06*	10	04AUG06	144			0.00	2,699.20
1421-105	Procurement lead time for-Assy	07AUG06	40	29SEP06	144			0.00	0.00
1421-110	Deliver - Assy bolts,nuts,washers	02OCT06	60	03JAN07	144			0.00	449,000.00
1421-200	Submet Requisition for - Assembly shims	24JUL06*	10	04AUG06	144			0.00	2,699.20
1421-205	Procurement lead time for - Assembly shims	07AUG06	40	29SEP06	144			0.00	0.00
1421-210	Deliver - Assembly shims	02OCT06	60	03JAN07	144			0.00	138,000.00
1421-400	Submet Requisition for - Bladders	24JUL06*	10	04AUG06	144			0.00	2,699.20
1421-405	Procurement lead time for - Bladders	07AUG06	40	29SEP06	144			0.00	0.00
1421-410	Deliver - Bladders	02OCT06	60	03JAN07	144			0.00	60,000.00
15 - Structures									
Job: 1501 - Structures Design- Kalish									
PDR/PBR Task List									
1501-105	Project PDR	07OCT03A	1	07OCT03A			100	0.00	0.00
1501-109	Prepare FY 04 WP/WAF	31OCT03A	20	31OCT03A			100	12,360.00	12,360.00
1501-113	Prepare PBR documentation	04NOV03A	10	18NOV03A			100	6,180.00	6,180.00
1501-117	Performance baseline review		0	18NOV03A			100	0.00	0.00
Reqmnts,Configuration, Interfaces and PDR									
1501-125	Update drawings & models based on vendor	21OCT03A	30	26NOV03A			100	10,660.50	10,660.50
1501-133	Prepare a "scope sheet" which defines all interf	03NOV03A	124	30SEP04A			LOE	5,407.50	5,407.50
1501-FY05	Prelim Design Structures	01JUL05A	110*	03APR06	161		37*	45,206.33	85,922.42
1501-PDR	Structures PDR		0	03APR06	161			0.00	0.00
1501-FD	Final Design Structures	04APR06	63*	30JUN06	161			0.00	88,596.54
1501-FDR	Structures FDR		0	30JUN06	161			0.00	0.00
FY05CV-26	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				-1,000.00	-1,000.00
Job:1550 - Structures Procurement -KALISH									
1501-245	Prep Spec,Solicit Bids, and Evaluate Bids	03JUL06	65	02OCT06	161			0.00	0.00
162-036.9	Award Coil Support Assy		0	02OCT06*	161			0.00	0.00
162-037	WBS 151Coil Support Assy Procurement [A/1]	03OCT06	249	01OCT07	161			0.00	1,013,788.47
162-031	Title III engr WBS 151	03OCT06	249	01OCT07	511			0.00	153,878.32
153.037	WBS 153 Support Structure I&C	03OCT06*	249	01OCT07	511			0.00	9,022.42
153.015	Title III design WBS 153 locall&C	03OCT06*	249	01OCT07	511			0.00	1,048.11



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ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
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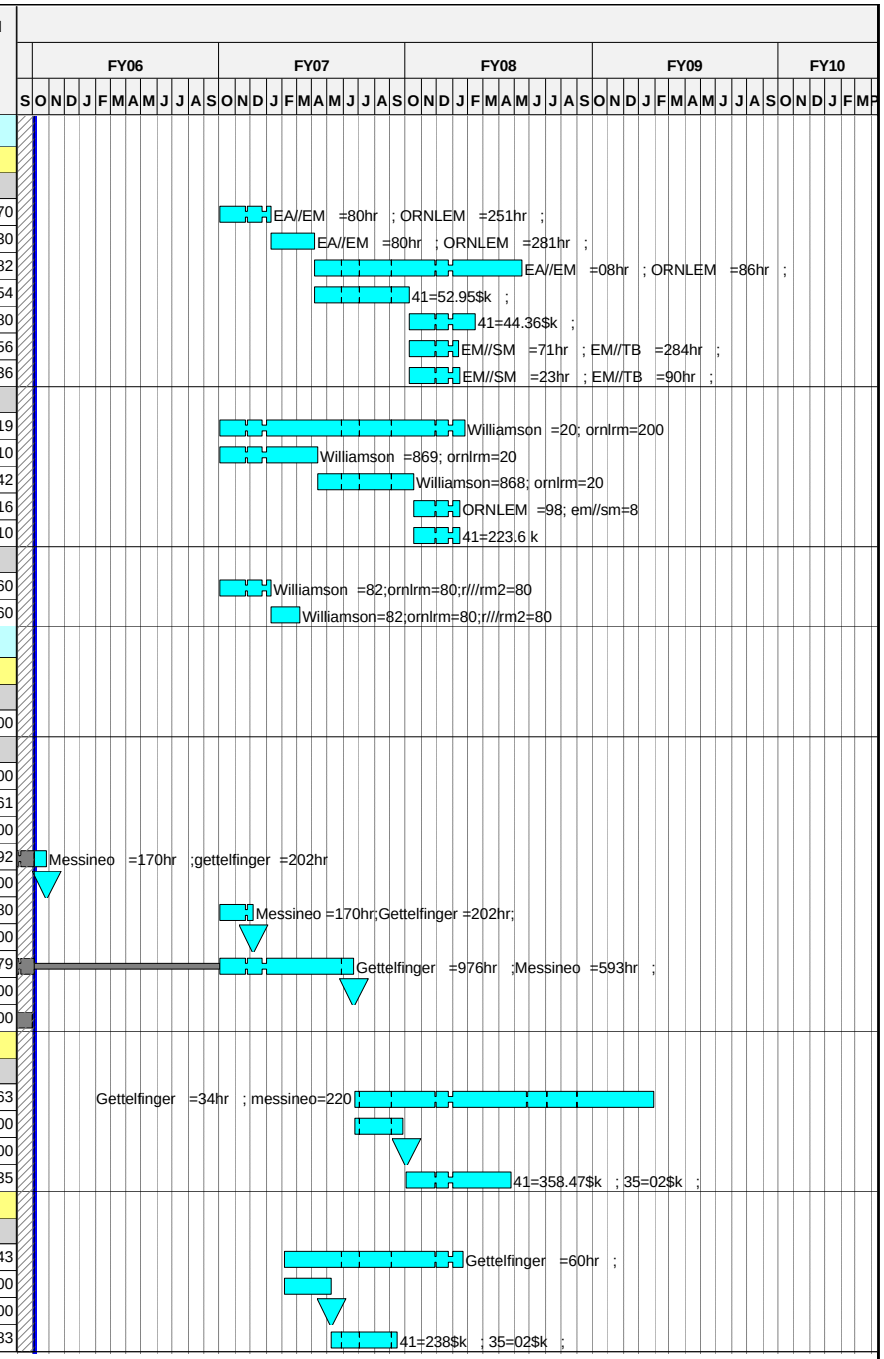
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
16 - Coil Services									
Job: 1601 - Coil Services Design-WILLIAMSON									
161 - LN2 Distribution									
191-001	Title I design WBS 161 LN2 manifolds&piping	02OCT06*	65	10JAN07	306			0.00	57,375.70
191-011	Title II design WBS 161 LN2 manifolds&piping	11JAN07	60	04APR07	306			0.00	114,923.30
191-031	Title III engr WBS 161	05APR07	280	15MAY08	356			0.00	16,567.82
191-037	Procurement WBS 161	05APR07	130	08OCT07	306			0.00	72,677.54
191-038	PDR#17	09OCT07*	86	15FEB08	420			0.00	62,325.80
191-041	LN2 Manifolds & ppg Fab/assy/instl WBS 161	09OCT07*	62	14JAN08	306			0.00	33,821.56
191-042	PDR #17,25,3	09OCT07*	65	17JAN08	441			0.00	10,785.36
162 - Electrical Leads									
132-000	PDR #17 & 25	02OCT06	325	24JAN08	436			0.00	41,396.19
132-001	Title I design WBS 162 Coil leads	02OCT06*	130	11APR07	303			0.00	153,159.10
132-011	Title II design WBS 162 Coil leads	12APR07	130	15OCT07	303			0.00	153,686.42
132-015	Title III design WBS 162 Coil leads	16OCT07*	60	17JAN08	441			0.00	18,618.16
132-037	Coil Leads Procurement WBS 162	16OCT07*	60	17JAN08	303			0.00	314,186.10
163 - Coil Protection System									
163.001	Title I design WBS 163 Coil protection	02OCT06*	65	10JAN07	656			0.00	42,744.60
163.011	Title II design WBS 163 Coil protection	11JAN07	40	07MAR07	656			0.00	42,744.60
17 - Cryostat and Base Support Structure									
Job:1701-Cryost&Base Sprt Strct Dsn-GETTLEFINGER									
Prior Costs									
1701-001	Apr-Sept MIE Costs PPPL	01APR03A	54	30SEP03A			100	12,180.00	12,180.00
151-000	Adv Concep Design Cryostat shell & struct	01DEC03A	103*	31MAR04			100	6,000.00	6,000.00
151-001	Title I design WBS 171 cryostat	01APR04A	270*	29APR05A			100	125,850.61	125,850.61
151-002	Cryostat PDR		0	29APR05A			100	0.00	0.00
161-001	Title I design WBS 172 base support struct	01APR04A	395*	26OCT05	504		90	44,979.23	49,976.92
151-003	Base Support Struct PDR		0	26OCT05*	504			0.00	0.00
161-011	Final Design Base Support Structure WBS 172	02OCT06*	45	05DEC06	273			0.00	66,050.80
172-199	Base Support Structure FDR		0	05DEC06	273			0.00	0.00
151-011	Final Design Cryostat WBS 171	25JUL05A	231*	22JUN07	175		2	4,754.00	237,699.79
171-199	Cryostat FDR		0	22JUN07	175			0.00	0.00
FY05CV-27	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				178,000.00	178,000.00
Job: 1751 - Cryostat Procurement									
171 - Cryostat									
151-031	Title III engr	25JUN07	405	28JAN09	175			0.00	33,260.63
151-036.8	Prep Spec, Solicit bids, and Select Vendor	25JUN07	65	25SEP07	175			0.00	0.00
151-036.9	Award Cryostat Procurement		0	01OCT07*	242			0.00	0.00
151-037	Cryostat Procurement [A/1]	02OCT07	141	25APR08	242			0.00	507,236.35
Job: 1752 - Base Support Structure Procurement									
172 - Base Support Structure									
161-031	Title III engr WBS 172	06FEB07	240	22JAN08	438			0.00	10,726.43
161-036.8	Prep Spec, Solicit bids, and Select Vendor	06FEB07*	65	07MAY07	235			0.00	0.00
161-036.9	Award Machine Base&supports Procurement		0	07MAY07	235			0.00	0.00
161-037	Machine Base&supports Procurement [A/1]	08MAY07	90	13SEP07	235			0.00	300,678.83



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ECP-38 baseline
Progress Bar
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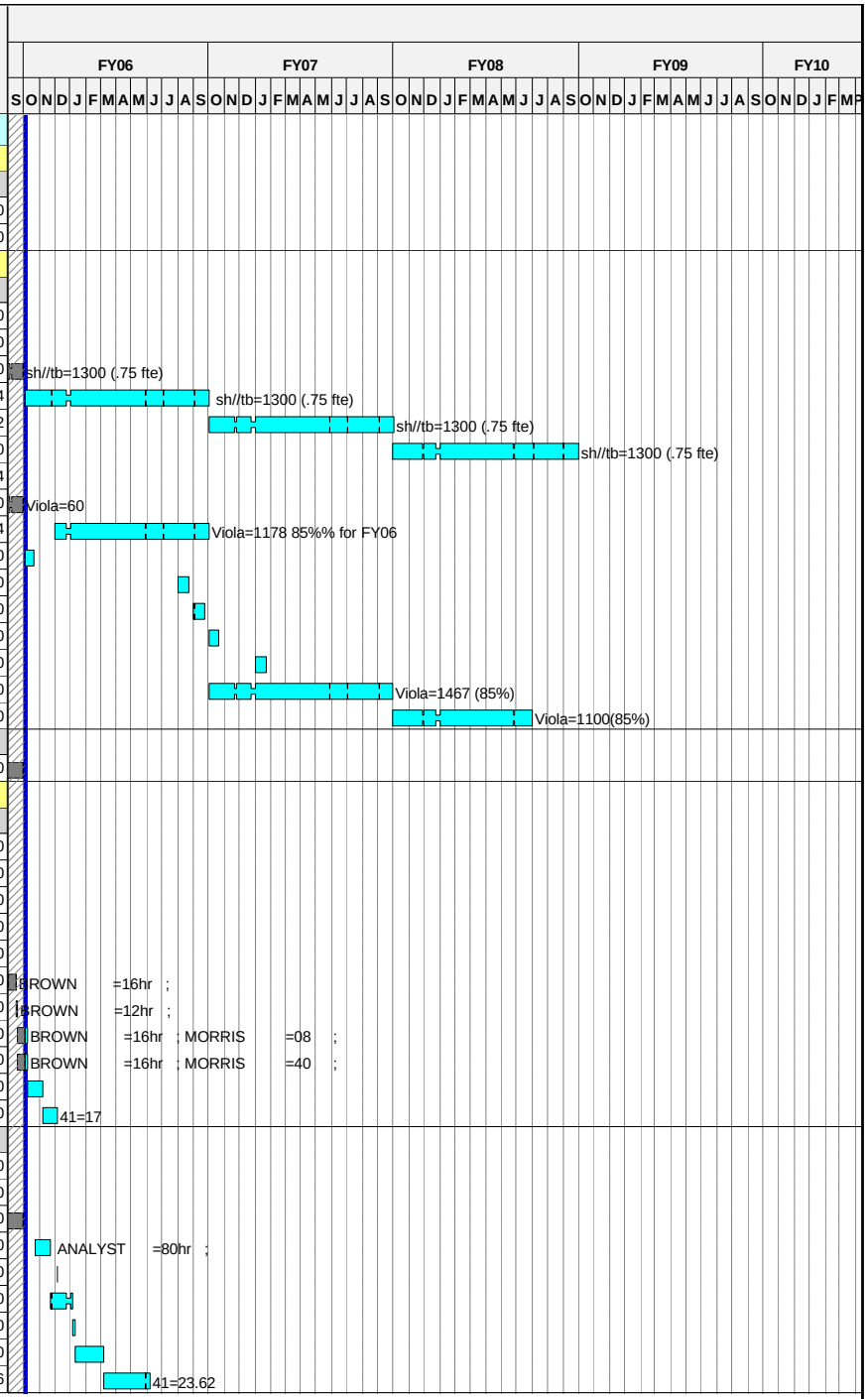
18 - Field Period Assembly									
Job: 1801-Field Period Assly -CHRZANOWSKI (ORNL)									
Prior Costs									
1801-001	Apr-Sept MIE Costs PPPL	01APR03A	42	30SEP03A			100	7,750.00	7,750.00
1801-002	Apr-Sept MIE Costs ORNL	01APR03A	42	30SEP03A			100	53,050.00	53,050.00
Job: 1802 - FP Assy Oversight&Support-VIOLA									
Oversight and Supervision									
181.200	HP Coverage in the TFTR TC LOE FY04	02FEB04A	171*	30SEP04A			LOE	61,119.60	61,119.60
181.201	D-Site Shift Supervisor LOE FY04	01JUL04A	64*	30SEP04A			LOE	25,920.40	25,920.40
181.210	HP Coverage in the TFTR TC LOE FY05	01OCT04A	249*	30SEP05A			LOE	136,539.00	136,539.00
181.222	HP Coverage in the TFTR TC LOE FY06	03OCT05*	250*	02OCT06	760			0.00	147,328.84
181.220	HP Coverage in the TFTR TC LOE FY07	02OCT06*	250*	01OCT07	511			0.00	150,543.22
181.221	HP Coverage in the TFTR TC LOE FY08	01OCT07*	251*	30SEP08	261			0.00	154,583.00
181.100	PPPL EM LOE FY04	13OCT03A	242*	30SEP04A			LOE	77,518.74	77,518.74
181.110	PPPL EM LOE FY05	01OCT04A	249*	30SEP05A			LOE	9,625.20	9,625.20
181.120	PPPL EM LOE FY06	01DEC05*	209*	02OCT06	760			0.00	204,416.14
181.2A	Procedure for VV prep	03OCT05*	15	21OCT05	355			0.00	0.00
181.2B	Procedure for MC HP subassy	01AUG06*	15	21AUG06	231			0.00	0.00
181.2C	Procedure for MC instl on VV	01SEP06*	15	22SEP06	258			0.00	0.00
181.2D	Procedure for TF HP sub assy	02OCT06*	15	20OCT06	277			0.00	0.00
181.2E	Procedure for Final FP assy	02JAN07*	15	22JAN07	211			0.00	0.00
181.121	PPPL EM LOE FY07	02OCT06*	249*	28SEP07	512			0.00	260,099.10
181.122	PPPL EM LOE FY08	01OCT07*	187*	30JUN08	325			0.00	200,288.00
FY05CV-28	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				57,000.00	57,000.00
Job: 1803- FP Assy Toolg/Constructability-BROWN									
1.00-VV Prep Station									
1803-1.01	Concept definition and requirements	01FEB05A	10	28FEB05A			100	16,056.00	16,056.00
1803-1.02	VV Support Fixture - model design& drawing	01FEB05A	73	31MAY05A			100	13,604.00	13,604.00
1803-1.04	Metrology -sightline layout metrology support	13APR05A	18	31MAY05A			100	25,502.00	25,502.00
1803-1.05	Structural / Seismic Analysis check	01FEB05A	86*	31MAY05A			100	13,220.00	13,220.00
1803-1.06	Design review PDR VV Prep Station	01AUG05A	0*	10AUG05A			100	1,983.00	1,983.00
1803-1.09	Safety Review documentation / presentation	02SEP05A	10	15SEP05A			100	2,644.00	2,644.00
1803-1.061	Design review FDR VV Prep Station	16SEP05A	2	19SEP05A			100	1,983.00	1,983.00
1803-1.07	Design check and sign-off	20SEP05A	14*	07OCT05	325		90	3,116.52	3,462.80
1803-1.10	Fab / Design Review - follow-up activities	20SEP05A	14*	07OCT05	346		99	6,670.62	6,738.00
1803-1.08	Prep & Issue dwgs,and requisition	10OCT05*	21*	07NOV05	325			0.00	0.00
1803-1.12	PPPL FAB - VV support Fixture (1)	08NOV05	20	05DEC05	342			0.00	23,307.00
2.00-Half Period Assembly									
1803-2.01	Concept definition and requirements	03JAN05A	52*	28FEB05A			100	16,056.00	16,056.00
1803-2.02	MC Holding Fixture - model design and drawing	01FEB05A	79*	29APR05A			100	21,728.00	21,728.00
1803-2.04	Metrology - sightline layout design details metr	01AUG05A	77*	30SEP05A			100	15,209.60	15,209.60
1803-2.05	Structural / Seismic Analysis check	24OCT05*	21*	21NOV05	286			0.00	13,924.80
1803-2.06	PDR Half Period Assy	07DEC05*	1	07DEC05	280			0.00	0.00
1803-2.061	FDR Half Period Assy	22NOV05	24*	04JAN06	286			0.00	0.00
1803-2.08A	Prep & Issue Spec,dwgs,and requisition	05JAN06	3	09JAN06	286			0.00	0.00
1803-2.08	Procurement Lead Time and Award	10JAN06	40	06MAR06	286			0.00	0.00
1803-2.11	Fab MC HP Assy Fixtures (1)	07MAR06	65	06JUN06	286			0.00	31,889.46



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ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
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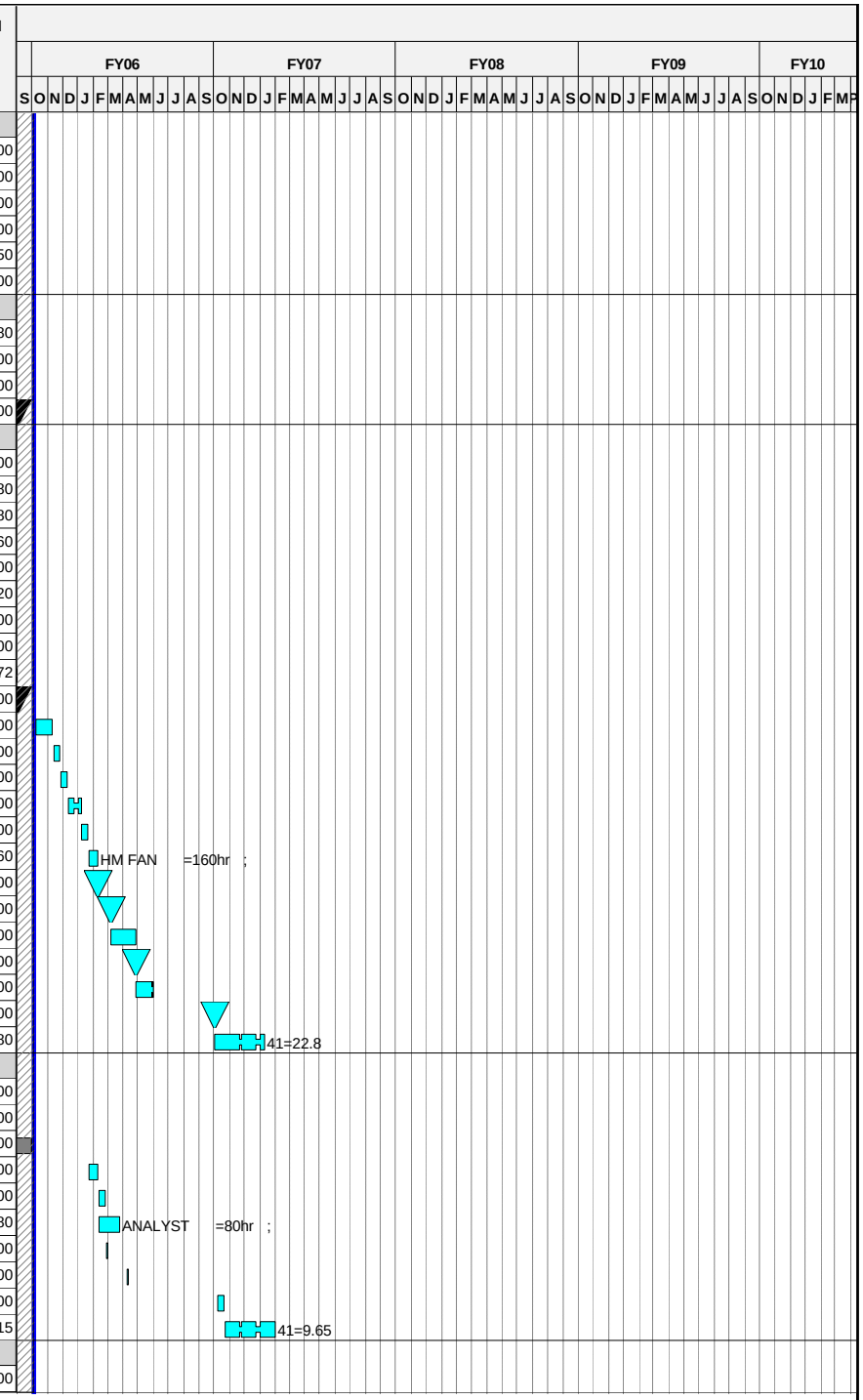
3.00-MC Installation									
1803-3.01	Concept definition and requirements	25OCT04A	5	29OCT04A			100	6,610.00	6,610.00
1803-3.02	MC Turning Fixture and base - model design	15NOV04A	48*	31JAN05A			100	1,983.00	1,983.00
1803-3.03	MC Gantry Crane - model design and drawing	29NOV04A	40*	31JAN05A			100	14,265.00	14,265.00
1803-3.04	VV support stand - model design and drawing	29NOV04A	104*	29APR05A			100	8,849.00	8,849.00
1803-3.05	Platform - design and drawing details	01FEB05A	7	29APR05A			100	9,179.50	9,179.50
1803-3.084	Industry Info Meeting	21FEB05A	1	21FEB05A			100	0.00	0.00
3.10 MC Turning Fixture-Industry Option									
1803-3.10A	Issue dwgs	02MAY05A	30	31MAY05A			100	20,243.80	20,243.80
180303.10A	Issue RFP		0	31MAY05A			100	0.00	0.00
1803-3.10C	Proposals Due		0	17JUN05A			100	0.00	0.00
1803-3.14	DECISION ON APPROACH		0	31AUG05A			100	0.00	0.00
3.20 MC Turning Fixture-Crane Option									
1803-3.30	Develop Crane Design Option	01MAY05A	6*	31MAY05A			100	0.00	0.00
1803-3.33	Design Equivalent Test Simulation Model	16MAY05A	33*	17JUN05A			100	6,416.80	6,416.80
1803-3.36	Design Test Track	20JUN05A	7	24JUN05A			100	6,416.80	6,416.80
1803-3.39	Fab Test Track	27JUN05A	24*	29JUL05A			100	56,326.60	56,326.60
1803-3.40	Site Prep	27JUN05A	5	30JUN05A			100	0.00	0.00
1803-3.43	Assembly of Test Article	29JUL05A	5	29JUL05A			100	11,923.20	11,923.20
1803-3.46	Metrology set-up	29JUL05A	5	29JUL05A			100	0.00	0.00
1803-3.49	Run Test	29JUL05A	3	29JUL05A			100	11,004.00	11,004.00
1803-3.50	Test Evaluation and Write up	31AUG05A	0*	31AUG05A			100	2,566.72	2,566.72
1803-3.52	DECISION ON APPROACH		0	31AUG05A				0.00	0.00
1803-3.15	MC Crane load support sys	10OCT05*	25*	11NOV05	293			0.00	0.00
1803-3.60	Laser Screen Guide Mods	14NOV05*	8*	23NOV05	293			0.00	0.00
1803-3.62	VV support stand and misc fixtures	28NOV05*	10*	09DEC05	293			0.00	0.00
1803-3.64	Platform for flange bolting	12DEC05*	14*	06JAN06	293			0.00	0.00
1803-3.66	Metrology layout	09JAN06*	10*	20JAN06	293			0.00	0.00
1803-3.07	Seismic Analysis check	23JAN06*	15*	10FEB06	293			0.00	27,849.60
1803-3.15B	PDR Turning fixture & Base		0	10FEB06*	293			0.00	0.00
1803-3.15E	FDR Turning fixture & Base		0	08MAR06*	275			0.00	0.00
1803-3.07A	Prep Procurement Pkg	09MAR06*	35	26APR06	275			0.00	0.00
1803-3.08A	Issue RFP		0	26APR06	275			0.00	0.00
1803-3.08B	Recieve & Evaluate Bids	27APR06	25	01JUN06	275			0.00	0.00
1803-3.15D	Award Fabrication Contract		0	02OCT06*	189			0.00	0.00
1803-3.15C	Fab Crane Support & Laser screens	03OCT06*	65	11JAN07	189			0.00	31,258.80
4.00-TF HP Assembly									
1803-4.01	Concept definition and requirements	01MAR05A	5	28MAR05A			100	10,704.00	10,704.00
1803-4.03	TF HP support turning fixture - model design d	01APR05A	15	30JUN05A			100	14,265.00	14,265.00
1803-5.002	TF Rotation Fixture plus dwgs start	02MAY05A	129*	30SEP05A			100	32,592.00	32,592.00
1803-4.06	TF Rotation Fixture plus dwgs complete	23JAN06*	15*	10FEB06	351			0.00	0.00
1803-4.06A	Metrology layout	13FEB06*	10*	24FEB06	370			0.00	0.00
1803-4.07	Structural / Seismic Analysis check	13FEB06*	30*	24MAR06	351			0.00	13,924.80
1803-4.08	PDR Final FP Assy	28FEB06	1	28FEB06*	369			0.00	0.00
1803-4.081	FDR Final FP Assy	11APR06	1	11APR06*	340			0.00	0.00
1803-4.10A	Prep & Issue Spec,dwgs,and req-pltfrm&sprts	09OCT06*	10	20OCT06	214			0.00	0.00
1803-4.13	FAB-TF Support Stands (1)	23OCT06	65	31JAN07	214			0.00	13,230.15
5.00-Final FP Assembly									
1803-4.02	MC Support Stand - model design and drawing	01APR05A	89*	31MAY05A			100	14,265.00	14,265.00



Run Date 25OCT05 11:35

ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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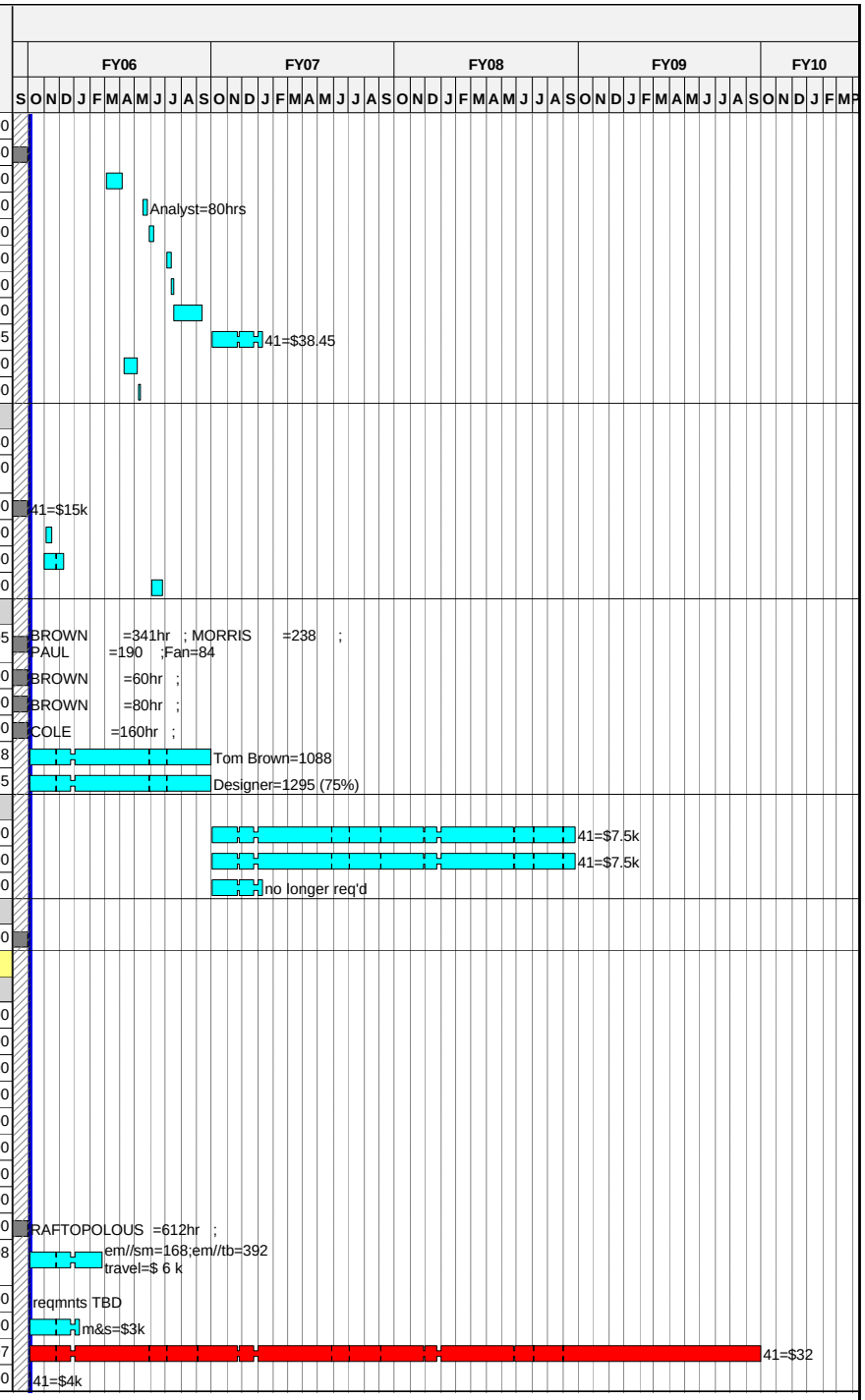
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
1803-5.001	Concept definition and requirements	02MAY05A	10	31MAY05A			100	10,704.00	10,704.00
1803-4.04	FP Assembly platform - model design drawing	01AUG05A	65*	30SEP05A			100	21,397.50	21,397.50
1803-5.003	MC support stand	06MAR06*	25*	07APR06	261			0.00	0.00
1803-5.004	Structural Analysis	17MAY06*	8*	26MAY06	254			0.00	13,924.80
1803-5.005	PDR	30MAY06	5	05JUN06*	254			0.00	0.00
1803-5.006	FDR	05JUL06	5	11JUL06*	234			0.00	0.00
1803-5.007	Pre & Issue Specs and Dwgs	12JUL06	5	18JUL06	234			0.00	0.00
1803-5.008	Procurement Lead Time	19JUL06	40	12SEP06	234			0.00	0.00
1803-5.009	Fabricate	02OCT06*	65	10JAN07	221			0.00	52,714.95
1803-5.100	FP Assy Platform	10APR06*	20*	05MAY06	261			0.00	0.00
1803-5.200	Metrology layout/support stand dwgs	08MAY06*	5*	12MAY06	264			0.00	0.00
6.00-Interface/Test Activities									
1803-5.01	Finalize TFTR test cell FPA assembly layout	01JUN05A	42*	29JUL05A			100	9,066.40	9,066.40
1803-5.03	Design MC assy test components	01JUN05A	25*	30JUN05A			100	32,112.00	32,112.00
1803-5.04	Fab - Test Articles	01JUL05A	65*	30SEP05A			100	19,215.00	19,215.00
1803-5.02A	Generate as built spherical seat dwg	04NOV05*	8*	15NOV05	422			0.00	0.00
1803-5.05	Run test/metrology measurements	01NOV05*	26*	08DEC05	968			0.00	0.00
1803-5.02	TFTR Test Cell FPA arrgmnt dwg	05JUN06*	15*	23JUN06	834			0.00	0.00
7.00-Oversight									
1803-7.01	Meetings Prep and Reporting	01NOV04A	230*	30SEP05A			LOE	114,037.05	114,037.05
1803-7.02	Develop and maintain concept definition	01NOV04A	230*	30SEP05A			LOE	9,915.00	9,915.00
1803-7.03	Develop and maintain assembly plan document	01NOV04A	349*	30SEP05A			LOE	9,254.00	9,254.00
1803-7.04	Mike Cole's FY05 on-site involvement in	01NOV04A	230*	30SEP05A			LOE	24,800.00	24,800.00
1803-7.10	Tom Brown Engineering	03OCT05*	250*	29SEP06	765			0.00	189,377.28
1803-7.20	Design Activity	03OCT05*	250*	29SEP06	765			0.00	149,999.85
Tooling Design & Fabrication									
713A.040	General procurements	02OCT06*	498	26SEP08	263			0.00	10,410.00
713A.050	Welding tools, materials & equipt	02OCT06*	498	26SEP08	263			0.00	10,410.00
713A.060	Instl He gas piping from NSTX to D-site tc NOT	02OCT06*	65	10JAN07	270			0.00	0.00
FY05CV-29	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				-148,000.00	-148,000.00
Job: 1804-FP Assy Measurement Sys-RAFTOPOULOS									
Metrology									
740.010	Final Design Measurement systems	19JAN04A	181*	30SEP04A			LOE	26,000.00	26,000.00
740.011	3-D Scanner/Faro Arm FDR		0	30JAN04A				0.00	0.00
740.015	Prepare Requisition 3-D scanner & Romer Arm	30JAN04A	10	30JAN04A				0.00	0.00
740.030	Deliver 3-D Scanner & Romer Arm	01APR04A	10*	30APR04A			100	171,990.00	171,990.00
740.030A	Romer Arm Training	06JUL04A	3*	08JUL04A			100	0.00	0.00
740.031	Metrology Software Review		0	30JAN04A				0.00	0.00
740.032	Prepare Met Software Requisition	30JAN04A	10	30JAN04A				0.00	0.00
740.045	Purchase- second Faro Arm PE005330	01OCT04A	102	29OCT04A			100	70,455.00	70,455.00
1803-8	Metrology Support (moved from 1803)	01NOV04A	230*	30SEP05A			LOE	101,133.00	101,133.00
740.020	Facility Prep	03OCT05*	95	22FEB06	915			0.00	63,992.08
740.035	Deliver Metrology Software	03OCT05*	1	03OCT05	1,009			0.00	0.00
740.100	Romer CMM- spare probes	03OCT05*	65	11JAN06	945			0.00	4,113.00
740.105	Romer CMM-Software support & warranty	03OCT05*	1,010*	30SEP09	0			0.00	44,712.97
740.110	Romer CMM-Laptop for 2nd arm	03OCT05*	0*	30SEP05	1,010			0.00	0.00



Run Date 25OCT05 11:35

ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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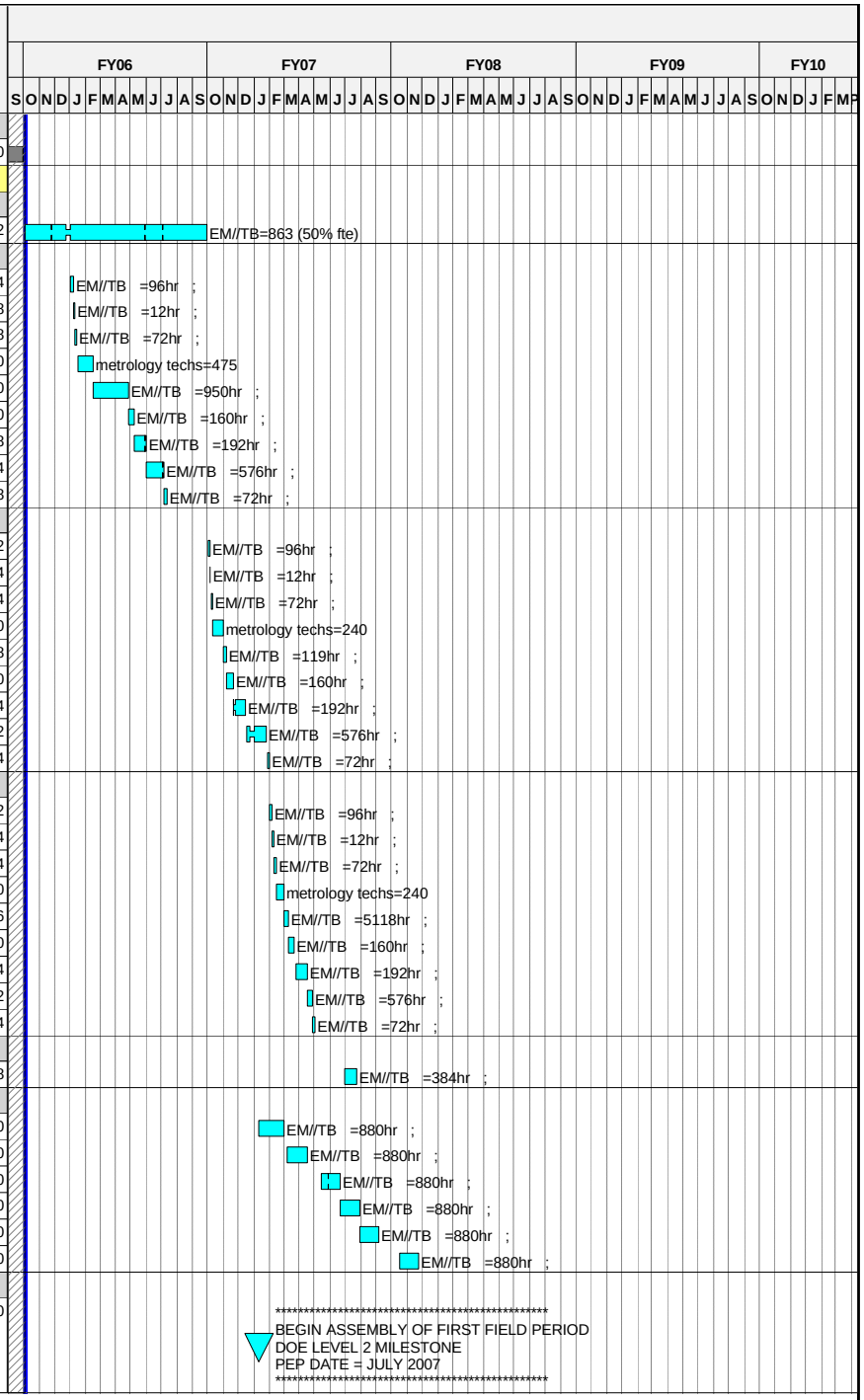
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
FY05CV-30	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				68,000.00	68,000.00
Job:1810 - Field Period Assembly-VIOLA									
Prep TFTR TC for Assembly operations									
S0P0-100	LOE Crane support, fixture setupfor TFTR TC.	03OCT05*	250*	29SEP06	765			0.00	70,282.72
Stage 1 VV Prep (instl diag & insul)FP#1									
S1P1-101	Receive VV and inspect	03JAN06	4	06JAN06	313			0.00	7,818.24
S1P1-102	Mount VV on VV Prep fixture (top side up)	09JAN06	1	09JAN06	313			0.00	977.28
S1P1-103	Establish metrology setting; align VV base	10JAN06	4	13JAN06	313			0.00	5,863.68
S1P1-103.1	Layout diagnostic&coolant paths on vsl w/templt	16JAN06	24	16FEB06	313			0.00	38,684.00
S1P1-107	Wind magnetic diagnostic sensors	17FEB06	48	25APR06	313			0.00	77,368.00
S1P1-107.1	Loop termination & verification	26APR06	10	09MAY06	313			0.00	13,030.40
S1P1-106	Attach studs for coolant lines	10MAY06	16	01JUN06	313			0.00	15,636.48
S1P1-108	Install cooling/htg lines to vac vsl	02JUN06	24	06JUL06	313			0.00	46,909.44
S1P1-116	Prepare and transfer completed VV to holding	07JUL06	3	11JUL06	313			0.00	5,863.68
Stage 1 VV Prep (instl diag & insul)FP#2									
S1P2-101	Receive VV and inspect	02OCT06*	4	05OCT06	259			0.00	7,989.12
S1P2-102	Mount VV on VV Prep fixture (top side up)	06OCT06	1	06OCT06	259			0.00	998.64
S1P2-103	Establish metrology setting; align VV base	09OCT06	4	12OCT06	259			0.00	5,991.84
S1P2-103.1	Layout diagnostic&coolant paths on vessel	13OCT06	12	30OCT06	259			0.00	19,972.80
S1P2-107	Wind magnetic diagnostic sensors	31OCT06	6	07NOV06	259			0.00	9,903.18
S1P2-107.1	Loop termination & verification	08NOV06	10	21NOV06	259			0.00	13,315.20
S1P2-106	Attach studs forcoolant lines	22NOV06	16	15DEC06	259			0.00	15,978.24
S1P2-108	Install cooling/htg lines to vac vsl	18DEC06	24	26JAN07	259			0.00	47,934.72
S1P2-116	Prepare and transfer completed VV to holding	29JAN07	3	31JAN07	259			0.00	5,991.84
Stage 1 VV Prep (instl diag & insul)FP#3									
S1P3-101	Receive VV and inspect	01FEB07	4	06FEB07	278			0.00	7,989.12
S1P3-102	Mount VV on VV Prep fixture (top side up)	07FEB07	1	07FEB07	278			0.00	998.64
S1P3-103	Establish metrology setting; align VV base	08FEB07	4	13FEB07	278			0.00	5,991.84
S1P3-103.1	Layout diagnostic&coolant paths on vessel	14FEB07	12	01MAR07	278			0.00	19,972.80
S1P3-107	Wind magnetic diagnostic sensors	02MAR07	6	09MAR07	278			0.00	9,819.96
S1P3-107.1	Loop termination & verification	12MAR07	10	23MAR07	278			0.00	13,315.20
S1P3-106	Attach studs forcoolant lines	26MAR07	16	16APR07	278			0.00	15,978.24
S1P3-108	Install cooling/htg lines to vac vsl	17APR07	8	26APR07	278			0.00	47,934.72
S1P3-116	Prepare and transfer completed VV to holding	27APR07	3	01MAY07	278			0.00	5,991.84
Spool pieces (3) (spacers)									
S1SP-101	Attachdiagnostics, studs and coolant lines	02JUL07*	16	23JUL07	368			0.00	31,956.48
Stage 2 MC HP Sub-assembly (bolt 3 MC together)									
S2P1-100	Assemble Mod-Coils a1.b1,c1 FP 1 left	12JAN07	35	01MAR07	138			0.00	73,233.60
S2P1-200	Assemble Mod-Coils a2.b2,c2 FP 1 right	09MAR07	27	16APR07	133			0.00	73,233.60
S2P2-100	Assemble Mod-Coils a3.b3,c3 FP 2 left	15MAY07	27	21JUN07	143			0.00	73,233.60
S2P2-200	Assemble Mod-Coils a4.b4,c4 FP 2 right	22JUN07	27	30JUL07	143			0.00	73,233.60
S2P3-100	Assemble Mod-Coils a5.b5,c5 FP 3 left	31JUL07	27	05SEP07	172			0.00	73,233.60
S2P3-200	Assemble Mod-Coils a6.b6,c6 FP 3 right	18OCT07	27	23NOV07	142			0.00	75,204.80
Stage 3 MC Instl (rotate MC over Vsl)-FP#1									
S3P1-000	Begin Assembly of First Field Period Assy	12JAN07	0		189			0.00	0.00



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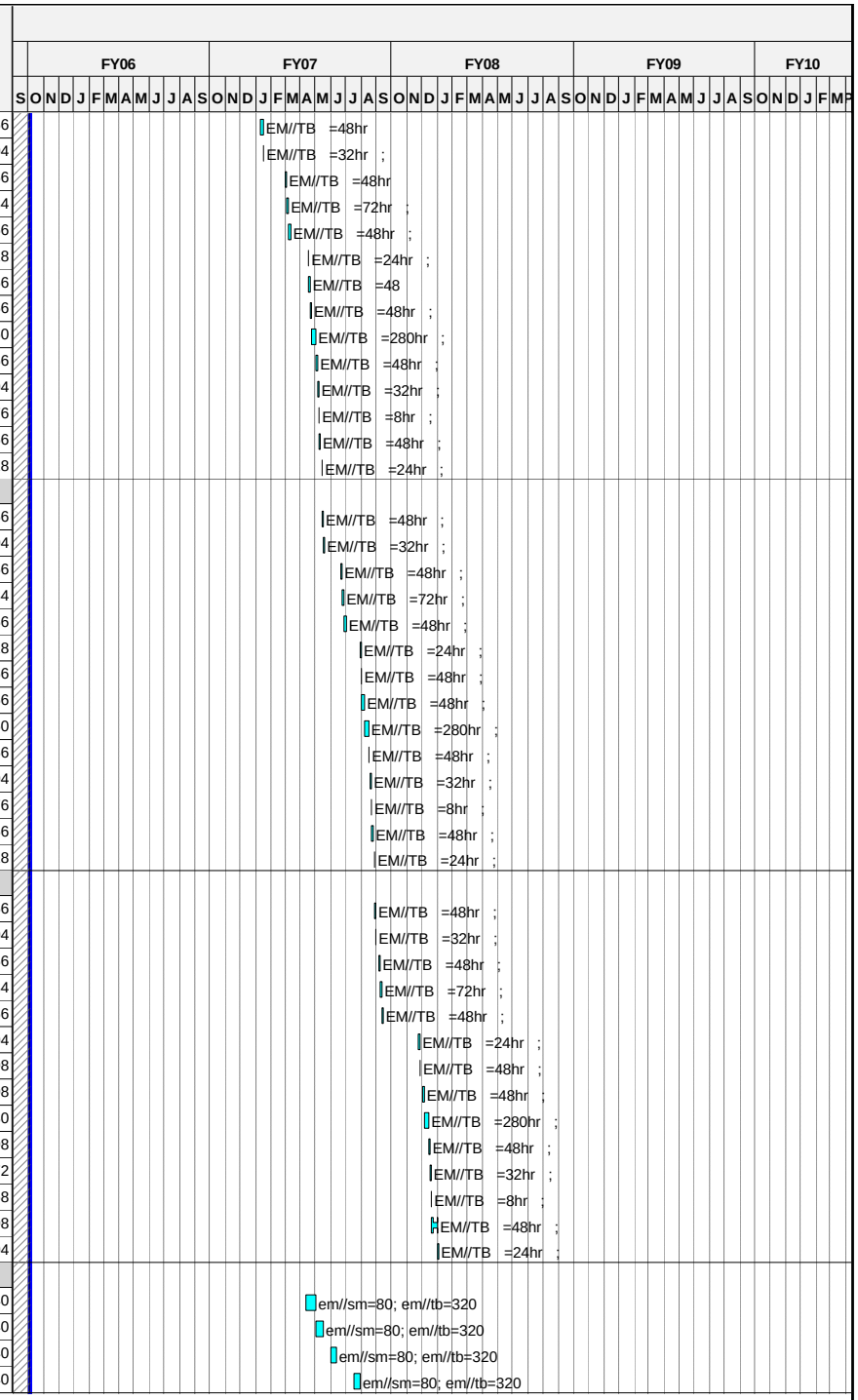
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
S3P1-101	VV to MC turning fixt base; metr check	12JAN07	2	15JAN07	189			0.00	3,994.56
S3P1-101.1	Attach local protective strips to VV&locate sens	16JAN07	2	17JAN07	189			0.00	2,663.04
S3P1-102	Mount MC on crane; perform metr checks	02MAR07	2	05MAR07	158			0.00	3,994.56
S3P1-103	Rotate right MC to stand-off position&chk	06MAR07	3	08MAR07	158			0.00	5,991.84
S3P1-104	Transfer load to sprt sys and recheck position	09MAR07	2	12MAR07	158			0.00	3,994.56
S3P1-105	Move MC turning fixt; mount MC on crane	17APR07	1	17APR07	133			0.00	1,997.28
S3P1-106	Rotate left MC to stand-off position and check p	18APR07	2	19APR07	133			0.00	3,994.56
S3P1-107	Move left & right MC to final position & measure	20APR07	2	23APR07	133			0.00	3,994.56
S3P1-108	Install shims (as reqd); ream 24 holes	24APR07	7	02MAY07	133			0.00	23,301.60
S3P1-109	Bolt together at flange interface.	03MAY07	2	04MAY07	133			0.00	3,994.56
S3P1-110	Perform final metrology position check	07MAY07	2	08MAY07	133			0.00	2,663.04
S3P1-110.1	Remove temp interference strips&sensors	09MAY07	1	09MAY07	133			0.00	665.76
S3P1-111	Secure VV to MC's using temporary supports.	10MAY07	2	11MAY07	133			0.00	3,994.56
S3P1-112	Prep& xfr completed assembly to Stage 4 area	14MAY07	1	14MAY07	133			0.00	1,997.28
Stage 3 MC Instl (rotate MC over Vsl)-FP#2									
S3P2-101	Mount VV to MC turning fixt base; metr check	15MAY07	2	16MAY07	186			0.00	3,994.56
S3P2-101.1	Attach local protective strips to VV&locate sens	17MAY07	2	18MAY07	186			0.00	2,663.04
S3P2-102	Mount MC on crane; perform metr checks	22JUN07	2	25JUN07	163			0.00	3,994.56
S3P2-103	Rotate right MC to stand-off position&chk	26JUN07	3	28JUN07	163			0.00	5,991.84
S3P2-104	Transfer load to supt sys and recheck position	29JUN07	2	02JUL07	163			0.00	3,994.56
S3P2-105	Move MC turning fixt; mount MC on crane	31JUL07	1	31JUL07	143			0.00	1,997.28
S3P2-106	Rotate left MC to stand-off position and check p	01AUG07	2	02AUG07	143			0.00	3,994.56
S3P2-107	Move left & right MC to final position & measure	03AUG07	2	06AUG07	143			0.00	3,994.56
S3P2-108	Install shims (as reqd); ream 24 holes	07AUG07	7	15AUG07	143			0.00	23,301.60
S3P2-109	Bolt together at flange interface.	16AUG07	2	17AUG07	143			0.00	3,994.56
S3P2-110	Perform final metrology position check	20AUG07	2	21AUG07	143			0.00	2,663.04
S3P2-110.1	Remove temp interference strips&sensors	22AUG07	1	22AUG07	143			0.00	665.76
S3P2-111	Secure VV to MC's using temporary supports.	23AUG07	2	24AUG07	143			0.00	3,994.56
S3P2-112	Prep& xfr completed assembly to Stage 4 area	27AUG07	1	27AUG07	143			0.00	1,997.28
Stage 3 MC Instl (rotate MC over Vsl)-FP#3									
S3P3-101	Mount VV to MC turning fixt base; metr check	28AUG07	2	29AUG07	195			0.00	3,994.56
S3P3-101.1	Attach local protective strips to VV&locate sens	30AUG07	2	31AUG07	195			0.00	2,663.04
S3P3-102	Mount MC on crane; perform metr checks	06SEP07	2	07SEP07	192			0.00	3,994.56
S3P3-103	Rotate right MC to stand-off position&chk	10SEP07	3	12SEP07	192			0.00	5,991.84
S3P3-104	Transfer load to supt sysand recheck position	13SEP07	2	14SEP07	192			0.00	3,994.56
S3P3-105	Move MC turning fixt; mount MC on crane	26NOV07	1	26NOV07	142			0.00	2,051.04
S3P3-106	Rotate left MC to stand-off position and check p	27NOV07	2	28NOV07	142			0.00	4,102.08
S3P3-107	Move left & right MC to final position & measure	03DEC07	2	04DEC07	142			0.00	4,102.08
S3P3-108	Install shims (as reqd); ream 24 holes	05DEC07	7	13DEC07	142			0.00	23,928.80
S3P3-109	Bolt together at flange interface.	14DEC07	2	17DEC07	142			0.00	4,102.08
S3P3-110	Perform final metrology position check	18DEC07	2	19DEC07	142			0.00	2,734.72
S3P3-110.1	Remove temp interference strips&sensors	20DEC07	1	20DEC07	142			0.00	683.68
S3P3-111	Secure VV to MC's using temporary supports.	21DEC07	2	02JAN08	142			0.00	4,102.08
S3P3-112	Prep& xfr completed assembly to Stage 4 area	03JAN08	1	03JAN08	142			0.00	2,051.04
Station 5 - TF HP Pre-Assy (bolt 3 TF together)									
184-100	Assemble 3 TF coils&structure -Left-Period #1	13APR07	15	03MAY07	161			0.00	37,110.40
184-105	Assemble 3 TF coils&structure -Right -Period #1	04MAY07	10	17MAY07	161			0.00	37,110.40
184-110	Assemble 3 TF coils&structure -Left-Period #2	31MAY07	10	13JUN07	217			0.00	37,110.40
184-115	Assemble 3 TF coils&structure -Right -Period #2	17JUL07	10	30JUL07	195			0.00	37,110.40



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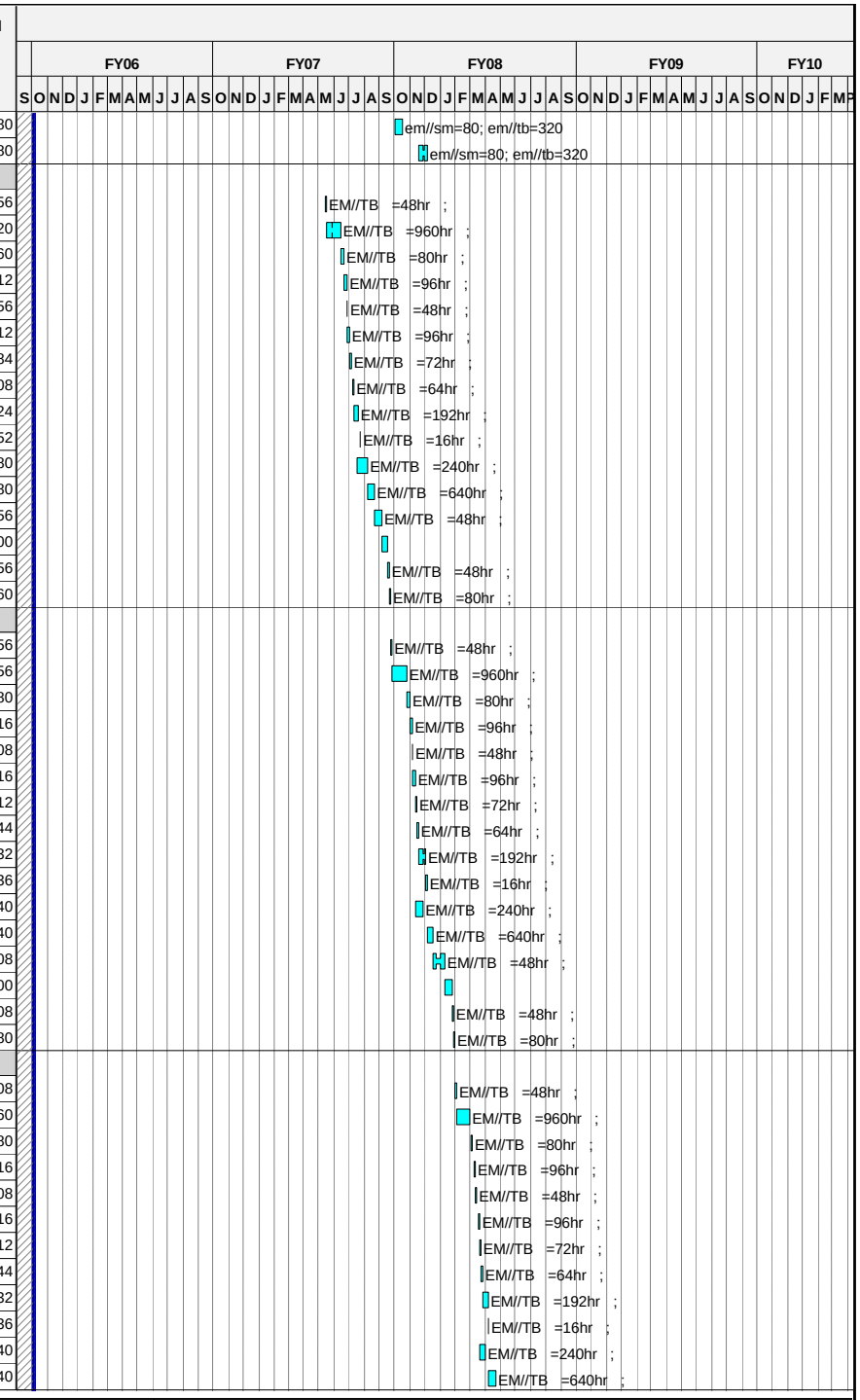
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
184-120	Assemble 3 TF coils&structure -Left -Period #3	04OCT07	10	17OCT07	209			0.00	38,108.80
184-125	Assemble 3 TF coils&structure -Right -Period #3	20NOV07	10	05DEC07	186			0.00	38,108.80
Stage 4 - Final FP Assy (Instl ports & TF's)FP#1									
S4P1-101	Mount MC/VV assembly to support frame a	15MAY07	2	16MAY07	133			0.00	3,994.56
S4P1-102	Position and weld all ports to VV	17MAY07	20	14JUN07	133			0.00	79,891.20
S4P1-103	Inspect Welds	15JUN07	5	21JUN07	133			0.00	6,657.60
S4P1-104	Assemble left TF Coil Assembly check position	22JUN07	3	26JUN07	133			0.00	7,989.12
S4P1-105	Change platforms	27JUN07	2	28JUN07	133			0.00	3,994.56
S4P1-106	Assemble right TF Coil Assembly chk position	29JUN07	3	03JUL07	133			0.00	7,989.12
S4P1-107	Attach TF coils to MC's	04JUL07	3	06JUL07	133			0.00	5,991.84
S4P1-108	Change platforms	09JUL07	2	10JUL07	134			0.00	5,326.08
S4P1-109	Position, weld two large horizontal diag ports	11JUL07	8	20JUL07	134			0.00	15,978.24
S4P1-110	Inspect Welds	23JUL07	1	23JUL07	134			0.00	1,331.52
S4P1-111	Assemble external trim coils to TF Coil	18JUL07	15	07AUG07	123			0.00	19,972.80
S4P1-112	Close up VV, leak check	08AUG07	10	21AUG07	123			0.00	53,260.80
S4P1-113	Adjust final support base interfaces	22AUG07	10	04SEP07	123			0.00	3,994.56
S4P1-113.5	Final metrology outside & inside	05SEP07	10	18SEP07	123			0.00	0.00
S4P1-114	Prepare Field Period for shipment	19SEP07	2	20SEP07	123			0.00	3,994.56
S4P1-115	Transfer completed assy to C-site test cell	21SEP07	2	24SEP07	123			0.00	6,657.60
Stage 4 - Final FP Assy (Instl ports & TF's)FP#2									
S4P2-101	Mount MC/VV assembly to support frame a	25SEP07	2	26SEP07	123			0.00	3,994.56
S4P2-102	Position and weld all ports to VV	27SEP07	20	24OCT07	123			0.00	81,826.56
S4P2-103	Inspect Welds	25OCT07	5	31OCT07	123			0.00	6,836.80
S4P2-104	Assemble left TF Coil Assembly check position	01NOV07	3	05NOV07	123			0.00	8,204.16
S4P2-105	Change platforms	06NOV07	2	07NOV07	123			0.00	4,102.08
S4P2-106	Assemble right TF Coil Assembly chk position	08NOV07	3	12NOV07	123			0.00	8,204.16
S4P2-107	Attach TF coils to MC's	13NOV07	3	15NOV07	123			0.00	6,153.12
S4P2-108	Change platforms	16NOV07	2	19NOV07	123			0.00	5,469.44
S4P2-109	Position, weld two large horizontal diag ports	20NOV07	8	03DEC07	123			0.00	16,408.32
S4P2-110	Inspect Welds	04DEC07	1	04DEC07	123			0.00	1,367.36
S4P2-111	Assemble external trim coils to TF Coil	13NOV07	10	26NOV07	127			0.00	20,510.40
S4P2-112	Close up VV, leak check	05DEC07	10	18DEC07	123			0.00	54,694.40
S4P2-113	Adjust final support base interfaces	19DEC07	10	10JAN08	123			0.00	4,102.08
S4P2-113.5	Final metrology outside & inside	11JAN08	10	24JAN08	123			0.00	0.00
S4P2-114	Prepare Field Period for shipment	25JAN08	2	28JAN08	123			0.00	4,102.08
S4P2-115	Transfer completed assy to C-site test cell	29JAN08	2	30JAN08	123			0.00	6,836.80
Stage 4 - Final FP Assy (Instl ports & TF's)FP#3									
S4P3-101	Mount MC/VV assembly to support frame a	31JAN08	2	01FEB08	123			0.00	4,102.08
S4P3-102	Position and weld all ports to VV*2 shift*	04FEB08	20	29FEB08	123			0.00	82,041.60
S4P3-103	Inspect Welds	03MAR08	5	07MAR08	123			0.00	6,836.80
S4P3-104	Assemble left TF Coil Assembly check position	10MAR08	3	12MAR08	123			0.00	8,204.16
S4P3-105	Change platforms	13MAR08	2	14MAR08	123			0.00	4,102.08
S4P3-106	Assemble right TF Coil Assembly chk position	17MAR08	3	19MAR08	123			0.00	8,204.16
S4P3-107	Attach TF coils to MC's	20MAR08	3	24MAR08	123			0.00	6,153.12
S4P3-108	Change platforms	25MAR08	2	26MAR08	123			0.00	5,469.44
S4P3-109	Position, weld two large horizontal diag ports	27MAR08	8	07APR08	123			0.00	16,408.32
S4P3-110	Inspect Welds	08APR08	1	08APR08	123			0.00	1,367.36
S4P3-111	Assemble external trim coils to TF Coil	20MAR08	10	02APR08	127			0.00	20,510.40
S4P3-112	Close up VV, leak check	09APR08	10	22APR08	123			0.00	54,694.40



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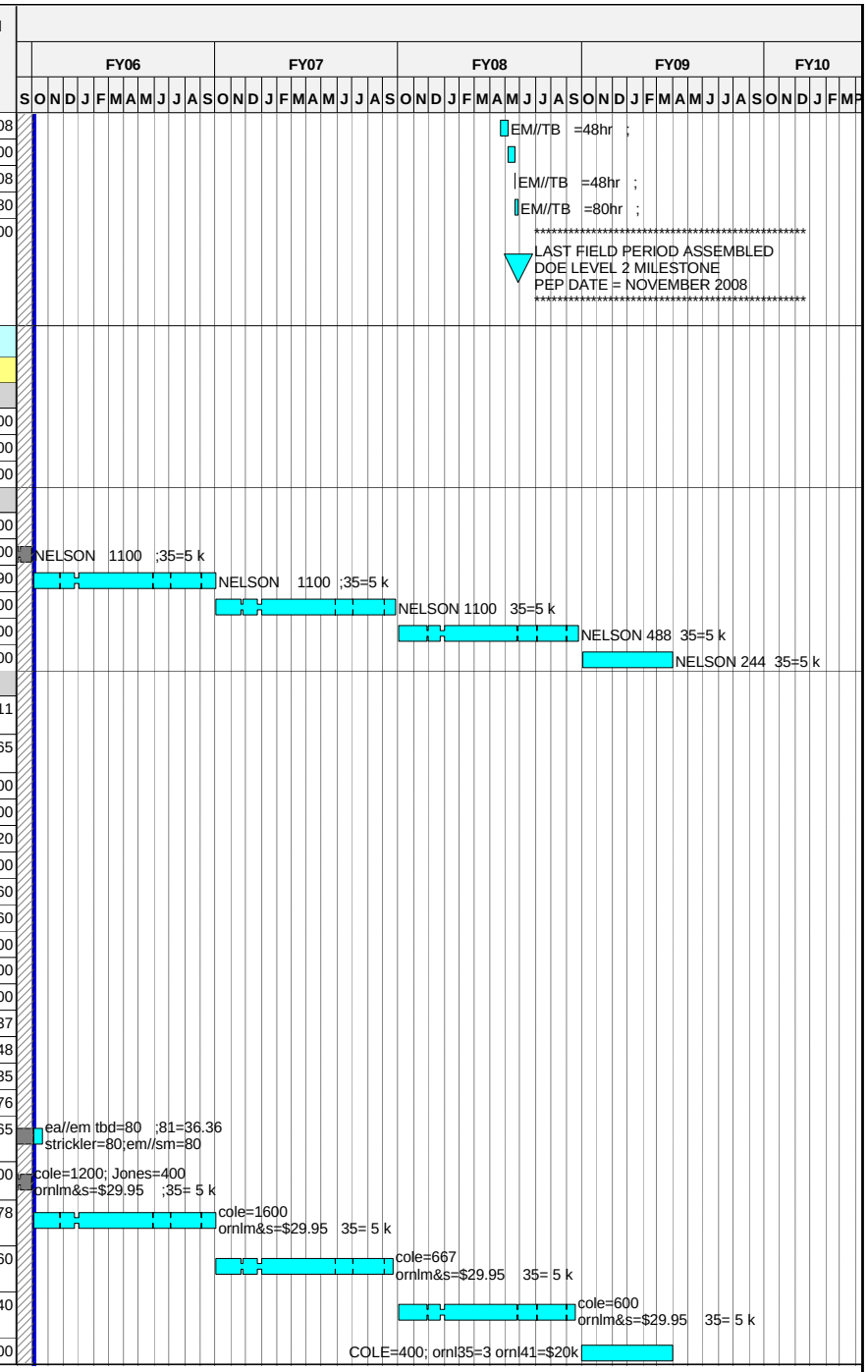
S4P3-113	Adjust final support base interfaces	23APR08	10	06MAY08	123			0.00	4,102.08
S4P3-113.5	Final metrology outside & inside	07MAY08	10	20MAY08	123			0.00	0.00
S4P3-114	Prepare Field Period for shipment	21MAY08	2	22MAY08	123			0.00	4,102.08
S4P3-115	Transfer completed assy to C-site test cell	23MAY08	2	26MAY08	123			0.00	6,836.80
S4P3-115X	Last field period assembled		0	26MAY08	123			0.00	0.00
19 - Stellarator Core Management and Integration									
Job: 1901 - Stellarator Core Mngtt&Integr-NELSON									
Prior Costs									
1901-002	Apr-Sept MIE Costs ORNL	01APR03A	248	30SEP03A			100	187,090.00	187,090.00
1901-003	Apr-Sept MIE Costs PPPL	01APR03A	248	30SEP03A			100	67,070.00	67,070.00
1901-ECP16	ecp16	01OCT03A	250*	30SEP04A			LOE	30,000.00	30,000.00
191 - Stellarator Core Management & Oversight									
191-4	LOE-FY04 WBS 191-4 Management Activities	01OCT03A	250*	30SEP04A			LOE	101,500.00	101,500.00
0191-5	LOE-FY05 WBS 191	01OCT04A	249*	30SEP05A			LOE	175,500.00	175,500.00
0191-6	LOE-FY06 WBS 191	03OCT05*	250*	02OCT06	513		LOE	0.00	197,788.90
0191-6X	LOE-FY07 WBS 191	03OCT06*	247	27SEP07	513		LOE	0.00	201,498.00
0191-7	LOE-FY08 WBS 191	03OCT07*	247	26SEP08	263		LOE	0.00	99,976.00
191-8	LOE-FY089 WBS 191	03OCT08*	130	02APR09	129		LOE	0.00	51,804.00
192 - Stellarator Core Integration & Analysis									
192-4	LOE-FY05 WBS 192-4 Design Integration	01OCT03A	250*	30SEP04A			LOE	234,660.11	234,660.11
192-5	LOE-FY05 WBS 192-5 VV & Coil Services Integr	01OCT03A	250*	30SEP04A			LOE	36,676.65	36,676.65
192-6	LOE-FY05 WBS 192-6 Integrated Analysis	01OCT03A	271	30SEP04A			LOE	42,333.00	42,333.00
192-6.07	Time constant calcs using SPARK	01APR04A	42*	28MAY04A			100	6,180.00	6,180.00
192-6.08	Indep check time constant calcs using	01MAY04A	138*	30SEP04A			100	10,295.20	10,295.20
192-6.09	Revised VV geometry	02FEB04A	6	27FEB04A			100	3,090.00	3,090.00
192-6.10	MC interf during assly, geometry, assly trajecto	02FEB04A	31	27FEB04A			100	32,957.60	32,957.60
192-6.11	Range of motion reqts for Assly MC fixture.	02FEB04A	20	27FEB04A			100	17,507.60	17,507.60
192-6.12	Final Check & Verification	01MAY04A	6	28MAY04A			100	3,708.00	3,708.00
192-6.2	Final Mod Coil Trajectories		0	27FEB04A				0.00	0.00
192-6.5	Structural Design criteria		0	28MAY04A			100	0.00	0.00
192-6.01	Document coil tolerance and trim coil	01MAR04A	357*	29JUL05A			100	19,284.37	19,284.37
192-6.02	Check critical coil tolerance calculations.	01APR04A	207*	31JAN05A			100	11,098.48	11,098.48
192-6.03	Method for determining current center	01FEB04A	234*	30DEC04A			100	86,626.35	86,626.35
192-6.06	Coil positions to minimize islands.	02FEB04A	270	28FEB05A			100	66,401.76	66,401.76
192-6.031	Demo Method for current center on TRC	18JUN05A	89*	21OCT05	1,000		90	63,897.89	70,997.65
0192-5	LOE-FY05 WBS 192	01OCT04A	249*	30SEP05A			LOE	280,350.00	280,350.00
0192-6	LOE-FY06 WBS 192	03OCT05*	250	02OCT06	518		LOE	0.00	312,504.78
0192-6X	LOE-FY07 WBS 192	03OCT06*	242	20SEP07	518		LOE	0.00	158,033.60
0192-7	LOE-FY08 WBS 192	03OCT07*	242	19SEP08	268		LOE	0.00	151,531.40
0192-99	LOE-FY09	01OCT08*	130	31MAR09	131		LOE	0.00	101,860.00



Run Date 25OCT05 11:35

ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
September Status 2005
Proposed PMB Baseline

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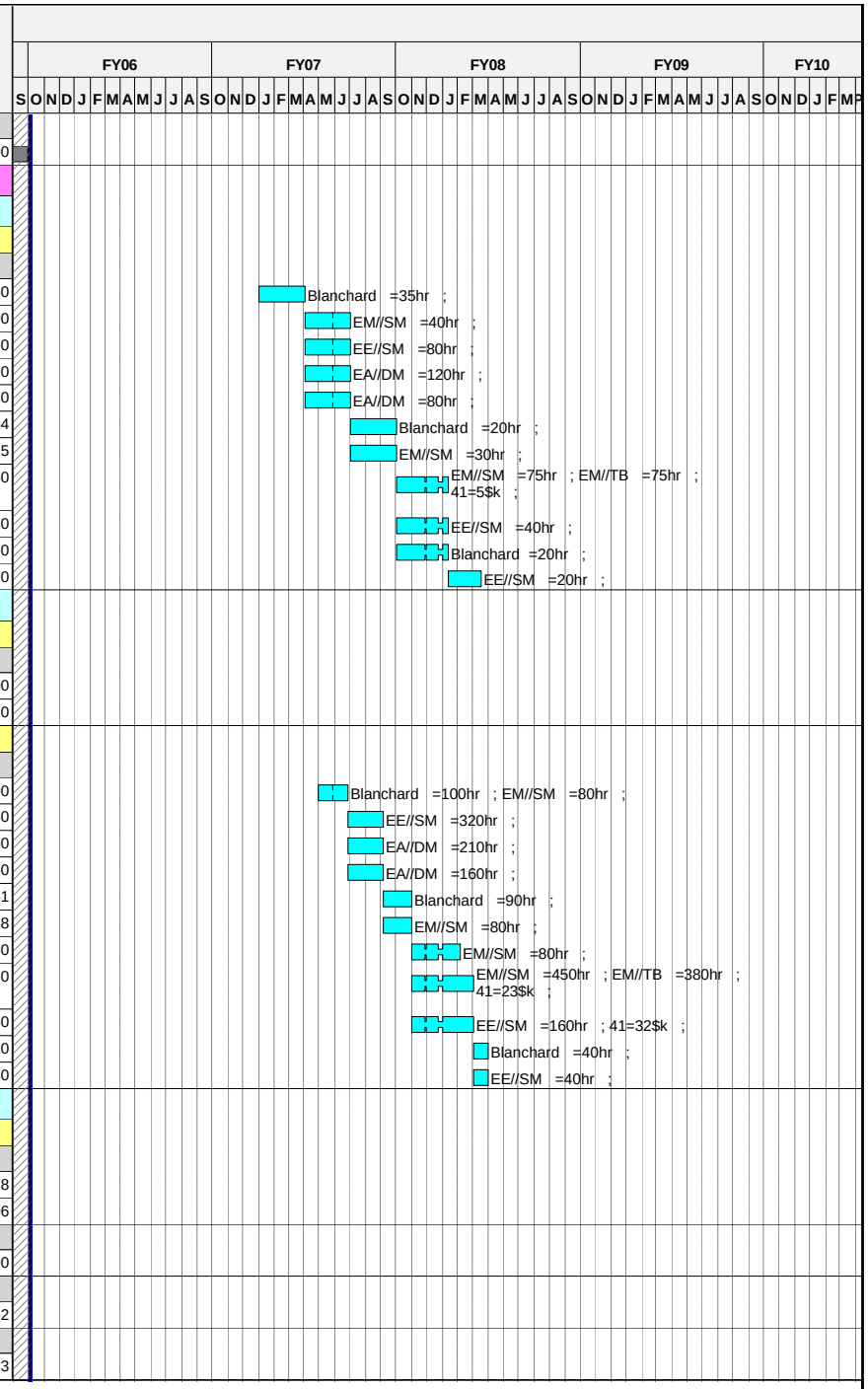
FY05CV-31	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				9,000.00	9,000.00
2 - Plasma Heating, Fueling & Vac Systems									
21 - Fueling Systems									
Job: 2101 - Fueling Systems									
ECP 16 October 2004									
21-10	Eng. Work Planning and Design	02JAN07*	65	02APR07	227			0.00	6,205.50
21-15	Design Gas Handling Hardware	03APR07	65	03JUL07	227			0.00	5,240.00
21-20	Design PLC Controls	03APR07	65	03JUL07	292			0.00	10,353.60
21-25	Electrical Drafting for pumping system	03APR07	65	03JUL07	292			0.00	14,203.20
21-30	Drafting	03APR07	65	03JUL07	292			0.00	9,468.80
21-35	Eng. Work Planning and Design during fab	04JUL07	65	02OCT07	292			0.00	3,548.94
21-40	Fabrication/Install Hardware	04JUL07	65	02OCT07	227			0.00	3,933.25
21-45	Fabrication/installation	03OCT07	65	14JAN08	227			0.00	23,523.50
21-55	Install PLC Controls	03OCT07	65	14JAN08	227			0.00	5,316.40
21-60	Integrated Systems Testing/Eng	03OCT07	65	14JAN08	227			0.00	3,641.60
21-65	Integrated Systems Testing/Tech Support	15JAN08	45	17MAR08	227			0.00	2,658.20
22 - Torus Vacuum Pumping Systems									
Job: 2001-VPS,Gas& Cond Sys Oversight-BLANCHARD									
Prior Costs									
2001-001	Apr-May MIE Cost	01APR03A	43*	30MAY03A			100	38,000.00	38,000.00
2001-100	PDR Support	01JUN03A	164*	30SEP03A			LOE	25,667.20	25,667.20
Job: 2201 - Vacuum Pumping Systems									
22-25	Eng. Work Planning and Design	01MAY07*	40	26JUN07	230			0.00	28,210.00
22-30	Design PLC based control system	27JUN07	50	04SEP07	270			0.00	41,414.40
22-35	Electrical Drafting for pumping system	27JUN07	50	04SEP07	290			0.00	24,855.60
22-40	Drafting	27JUN07	50	04SEP07	230			0.00	18,937.60
22-45	Eng. Work Planning and Design during fab	05SEP07	40	30OCT07	250			0.00	16,193.61
22-50	Perform maint. & repair of pmpg sys	05SEP07	40	30OCT07	230			0.00	10,634.88
22-55	Repair and Calibration of vac instrumentation	31OCT07	60	04FEB08	250			0.00	10,761.60
22-60	Fabrication/installation	31OCT07	80	03MAR08	230			0.00	125,323.80
22-65	Fab PLC conrols	31OCT07	80	03MAR08	230			0.00	66,225.60
22-70	Integrated Systems Testing/Eng	04MAR08	20	31MAR08	230			0.00	7,283.20
22-75	Integrated Systems Testing/Tech Support	04MAR08	20	31MAR08	230			0.00	5,316.40
25 - Neutral Beam Injection System									
Job: 2501 - Neutral Beam Refurbishment-STEVENSON									
FY04 Work Plan									
2501-014	FY04 work accomplished	03NOV03A	227	30JUN04A				81,334.78	81,334.78
2501-014.1	FY04 work closeout *TBD*	01JUL04A	64*	30SEP04A			LOE	48,614.06	48,614.06
Prior Costs									
2501-001	Apr-Sept MIE Cost	01APR03A	43*	30SEP03A			100	123,000.00	123,000.00
RefurbishmentCD-3 deleted scope**									
25-099	FY04 work accomplished	01MAR04A	846*	30JUN04A				21,384.62	21,384.62
Re-Install BeamlineCD-3 deleted scope**									
25-190.1	33) Fabr BL alignment measur fixture,	01JUN04A	699*	30JUN04A				2,060.33	2,060.33



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ECP-38 baseline
Progress Bar
Critical Activity

EC38

NCSX
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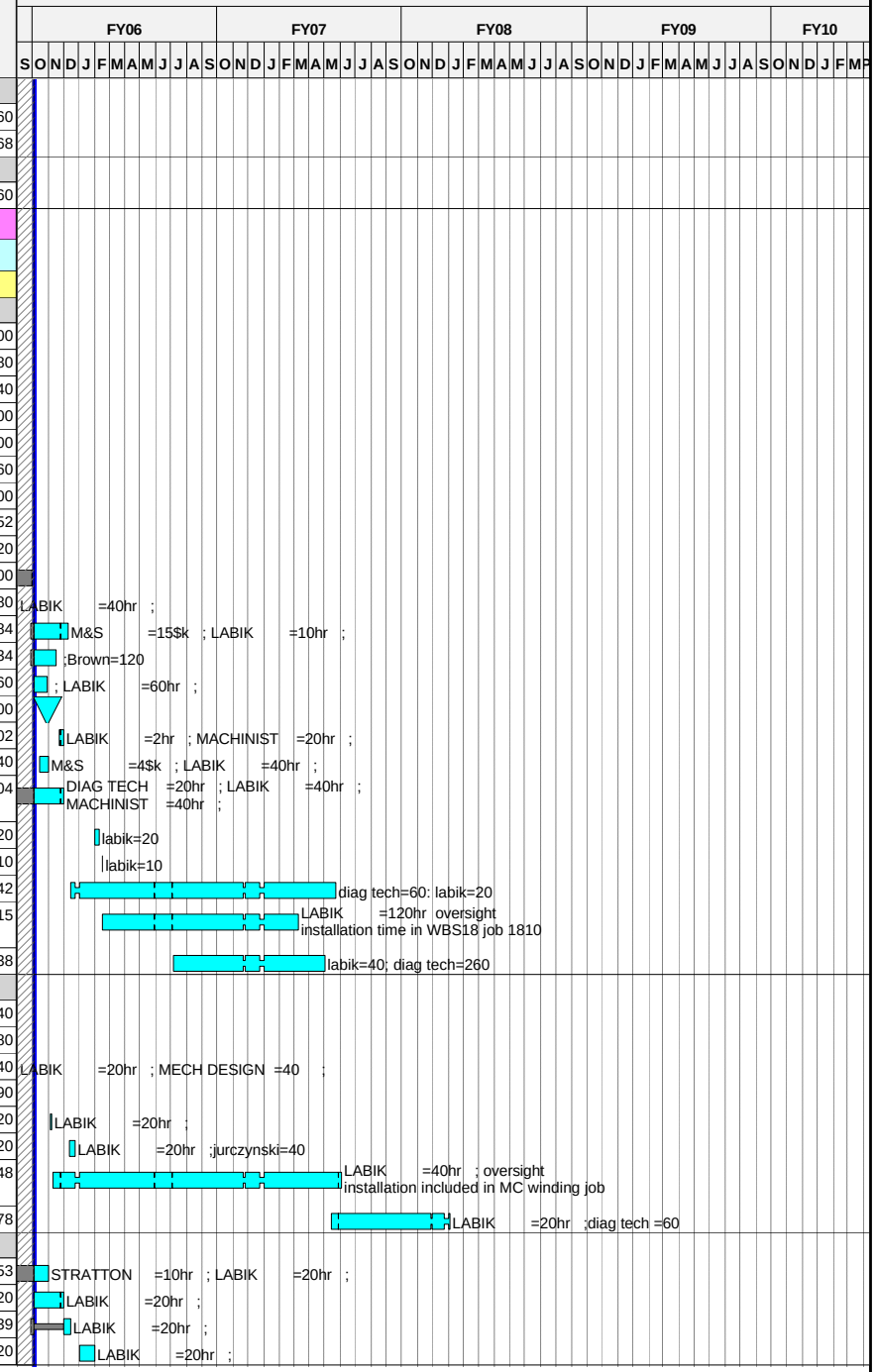
Re-Install CablesCD-3 deleted scope**									
25-225.1	Cabling-Design & WP Procedures	01APR04A	872*	30JUN04A				4,812.60	4,812.60
25-230.1	Cabling-Fabr and Install new Junction Box	02JUN04A	190	30JUN04A				727.68	727.68
Beamline ConnectionsCD-3 deleted scope**									
25-310.1	Drafting Labor Support	01JUN04A	298	30JUN04A				2,433.60	2,433.60
3 - Diagnostics									
31 - Magnetic Diagnostics									
Job: 3101 Magnetic Diagnostics									
Vacuum Vessel Saddle Loops									
3101-105	DEVELOP LOCATING, MOUNTING STRATEGY	01JAN05A	20	31JAN05A			100	1,000.00	1,000.00
3101-109	INTEGRATE LOOP AND LEAD DESIGN WITH	01JAN05A	40	28FEB05A			100	6,416.80	6,416.80
3101-113	INTEGRATE LAYOUT, MEAS NEEDS W/ VSL	01JAN05A	40	28FEB05A			100	3,208.40	3,208.40
3101-117	DEVELOP CONSTRAINTS FOR ARRAY	01JAN05A	20	31JAN05A			100	0.00	0.00
3101-121	LAYOUT CANDIDATE SENSOR ARRAY ON	01FEB05A	20	28FEB05A			100	0.00	0.00
3101-125	PDR PREP -VESSEL SADDLE LOOP	02MAY05A	5	31MAY05A			100	9,483.60	9,483.60
3101-126	PEER REVIEW -VESSEL SADDLE LOOP		0	31MAY05A			100	0.00	0.00
3101-129	DESIGN AND PROTOTYPE SADDLE LOOP	01MAR05A	107*	29JUL05A			100	7,643.52	7,643.52
3101-133	Prototype loops on vsl proto segment using ARI	01MAR05A	107*	29JUL05A			100	6,189.20	6,189.20
3101-137	FINAL OPTIMIZATION OF LOOP LOCATION,	01JAN05A	193*	30SEP05A			100	0.00	0.00
3101-149	PREPARE METROLOGY	01JUN05A	87*	31AUG05A			100	6,416.80	6,416.80
3101-145	Procure MI Cable	26SEP05A	53*	09DEC05	154		15	3,525.34	22,041.84
3101-139	Develop ProE model of loops, flat dev, fiducials	26SEP05A	37*	15NOV05	983		15	3,111.65	20,744.34
3101-141	FDR PREP- VESSEL SADDLE LOOPS	03OCT05*	20*	28OCT05	356			0.00	10,410.60
3101-142	FDR - VESSEL SADDLE LOOPS		0	28OCT05	356			0.00	0.00
3101-153	Fab Installation Templates	21NOV05*	6*	30NOV05	363			0.00	2,911.02
3101-146	Procure remaining materials	14OCT05*	13*	01NOV05	424			0.00	12,424.40
3101-157	Design & fab tooling and clamps	01JUN05A	128*	30NOV05	363		40	5,046.82	12,617.04
3101-167	Design voltage loop connections	02FEB06*	5	08FEB06	416			0.00	3,470.20
3101-169	Voltage loop connection peer review	15FEB06*	1	15FEB06	412			0.00	1,735.10
3101-165	Identify lead wires at multiple locations	15DEC05*	357*	21MAY07	607			0.00	8,437.42
3101-161	SUPT LOOP INSTL 200 LOOPS), TESTING	17FEB06	266*	09MAR07	278			0.00	21,004.15
3101-225	Terminate saddle loops	07JUL06	205*	01MAY07	278			0.00	28,546.38
Modular Coil C-wound Loops									
3101-205	MOUNTING/LOCATING STRATEGY MC	01JAN05A	20	31JAN05A			100	3,208.40	3,208.40
3101-209	PROTOTYPE ON TWISTED RACETRACK	01MAR05A	20	31MAR05A			100	4,741.80	4,741.80
3101-213	DESIGN TERMINATION	01MAR05A	130*	31AUG05A			100	7,302.40	7,302.40
3101-221	PROCURE MATERIALS	25JUL05A	0*	29JUL05A			100	6,410.90	6,410.90
3101-217	Peer review of lead routing	04NOV05*	2	07NOV05	176			0.00	3,470.20
3101-230	Install heat shrink tubing on MI cable	12DEC05*	10	23DEC05	154			0.00	8,598.20
3101-229	SUPPORT NSTALLATION, TERMINATION, TESTING	10NOV05	389*	04JUN07	147			0.00	7,005.48
3101-231	Terminate MC co-wound loops	14MAY07	159*	03JAN08	142			0.00	11,521.78
Rogowski Coils									
3101-301	LAYOUT LOCATION ROWGOSKI COIL &EST	01JUN05A	108*	31OCT05	447		80	3,853.23	4,816.53
3101-305	work on coil design with vendor	03OCT05*	41*	30NOV05	395			0.00	3,470.20
3101-309	DESIGN COIL MOUNTING TECHNIQUE	26SEP05A	57*	15DEC05	395		80	2,710.71	3,388.39
3101-313	DESIGN LEAD ROUTING AND TERMINATION	03JAN06*	21*	31JAN06	389			0.00	3,470.20



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ECP-38 baseline
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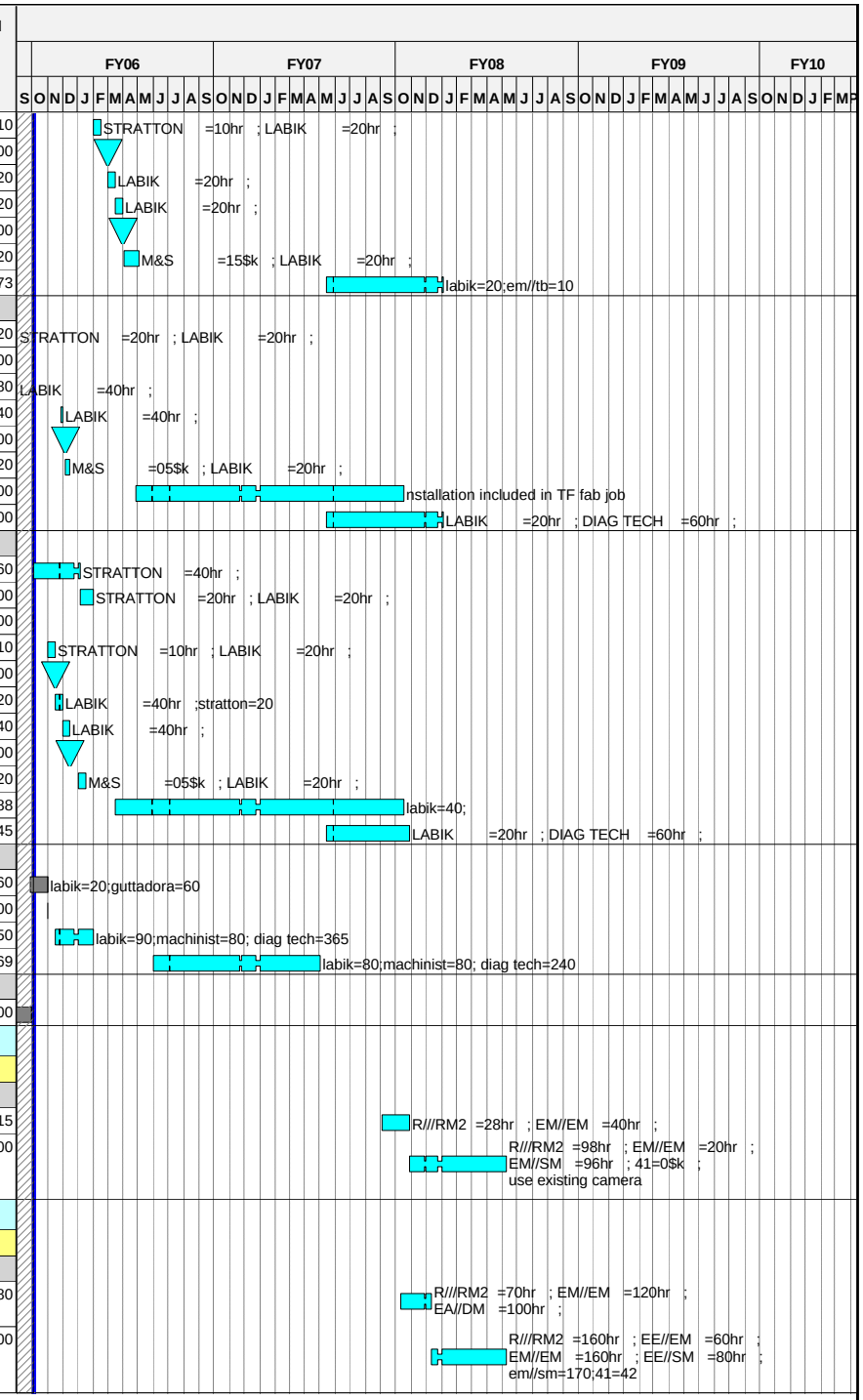
3101-317	PDR PREP- ROWGOWSKI COIL	01FEB06*	11*	15FEB06	389			0.00	5,126.10
3101-318	PDR - ROWGOWSKI COIL		0	28FEB06*	380			0.00	0.00
3101-321	Specify Rogowski Coils	01MAR06*	11*	15MAR06	380			0.00	3,470.20
3101-325	FDR PREP ROWGOSKI COIL	16MAR06*	12*	31MAR06	380			0.00	3,470.20
3101-326	FDR - ROWGOSKI COIL		0	31MAR06	380			0.00	0.00
3101-329	FAB ROWGOWSKI COILS (2)	03APR06	21*	01MAY06	380			0.00	24,035.20
3101-337	INSTALL COILS AND TERMINATIONS	14MAY07	159*	03JAN08	142			0.00	4,422.73
TF Co-wound Loops									
3101-401	MOUNTING/LOCATING TECHNIQUE TF	25JUL05A	28*	31AUG05A			100	6,275.20	6,275.20
3101-405	DESIGN TERMINATION N/R	03OCT05	1	03OCT05	400			0.00	0.00
3101-409	FINALIZE LOOP LOCATION/MOUNTING	01AUG05A	20	31AUG05A			100	6,416.80	6,416.80
3101-413	FDR PREP- TF CO-WOUND LOOPS	28NOV05*	3*	30NOV05	363			0.00	6,940.40
3101-414	FDR - TF CO-WOUND LOOPS		0	05DEC05*	360			0.00	0.00
3101-417	PROCURE MATERIALS	06DEC05	8*	15DEC05	360			0.00	10,325.20
3101-425	INSTALL TF CO-WOUND LOOPS	28APR06	371*	15OCT07	187			0.00	0.00
3101-429	INSTALL TERMINATIONS	14MAY07	159*	03JAN08	142			0.00	8,626.00
Modular Coil Shell Saddle Loops									
3101-501	DETERMINE NUMEBR AND LOCATION OF	03OCT05*	59*	03JAN06	286			0.00	6,623.60
3101-505	MOUNTING/LOCATING TECHN MC SHELL	04JAN06*	20*	31JAN06	286			0.00	6,782.00
3101-509	PROTOTYPE MC SHELL SADDLE LOOPS	03OCT05	1	03OCT05	323			0.00	0.00
3101-513	PDR PREP -MC SHELL SADDLE LOOPS	01NOV05*	12*	16NOV05	303			0.00	5,126.10
3101-514	PDR-MC SHELL SADDLE LOOPS		0	16NOV05	303			0.00	0.00
3101-521	FINALIZE LOOP LOCATION/MOUNTING	17NOV05*	8*	30NOV05	303			0.00	10,252.20
3101-525	FDR PREP - MC SHELL SADDLE LOOPS	01DEC05*	11*	15DEC05	303			0.00	6,940.40
3101-526	FDR - MC SHELL SADDLE LOOPS		0	15DEC05	303			0.00	0.00
3101-529	PROCURE MATERIALS	03JAN06*	10*	16JAN06	297			0.00	10,325.20
3101-533	INSTALL MC SHELL SADDLE LOOPS	17MAR06	403*	17OCT07	142			0.00	7,045.88
3101-537	INSTALL TERMINATIONS	14MAY07	120	29OCT07	181			0.00	8,579.45
Termination Boxes									
3101-333	Complete termination box design & prototyping	26SEP05A	27*				80	7,874.08	9,842.60
3101-421	FDR of terminations incl in saddle loop FDR	02NOV05*	1	02NOV05	424			0.00	0.00
3101-517	Fab termination boxes (24)	15NOV05*	49*	01FEB06	416			0.00	55,597.50
3101-517A	Install termination boxes	02JUN06	229*	01MAY07	278			0.00	33,885.69
FY05CV-32	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				30,000.00	30,000.00
36 - Edge and Divertor Diagnostics									
Job: 3601 - Edge and Divertor Diagnostics									
361-001	Design Visible Camera sys	04SEP07	40	29OCT07	186			0.00	11,997.15
361-015	Fab/Assy/Installation Visible Camera	30OCT07*	130	08MAY08	186			0.00	33,584.00
38 - Electron Beam (EB) Mapping									
Job: 3801 - Electron Beam Mapping									
380-010	Designe-Beam Probe,Fluor. Screen	12OCT07	40	10DEC07	186			0.00	46,167.80
380-015	Fab & Install Beam probe	11DEC07*	102	08MAY08	186			0.00	160,029.00



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ECP-38 baseline
Progress Bar
Critical Activity

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NCSX
September Status 2005
Proposed PMB Baseline

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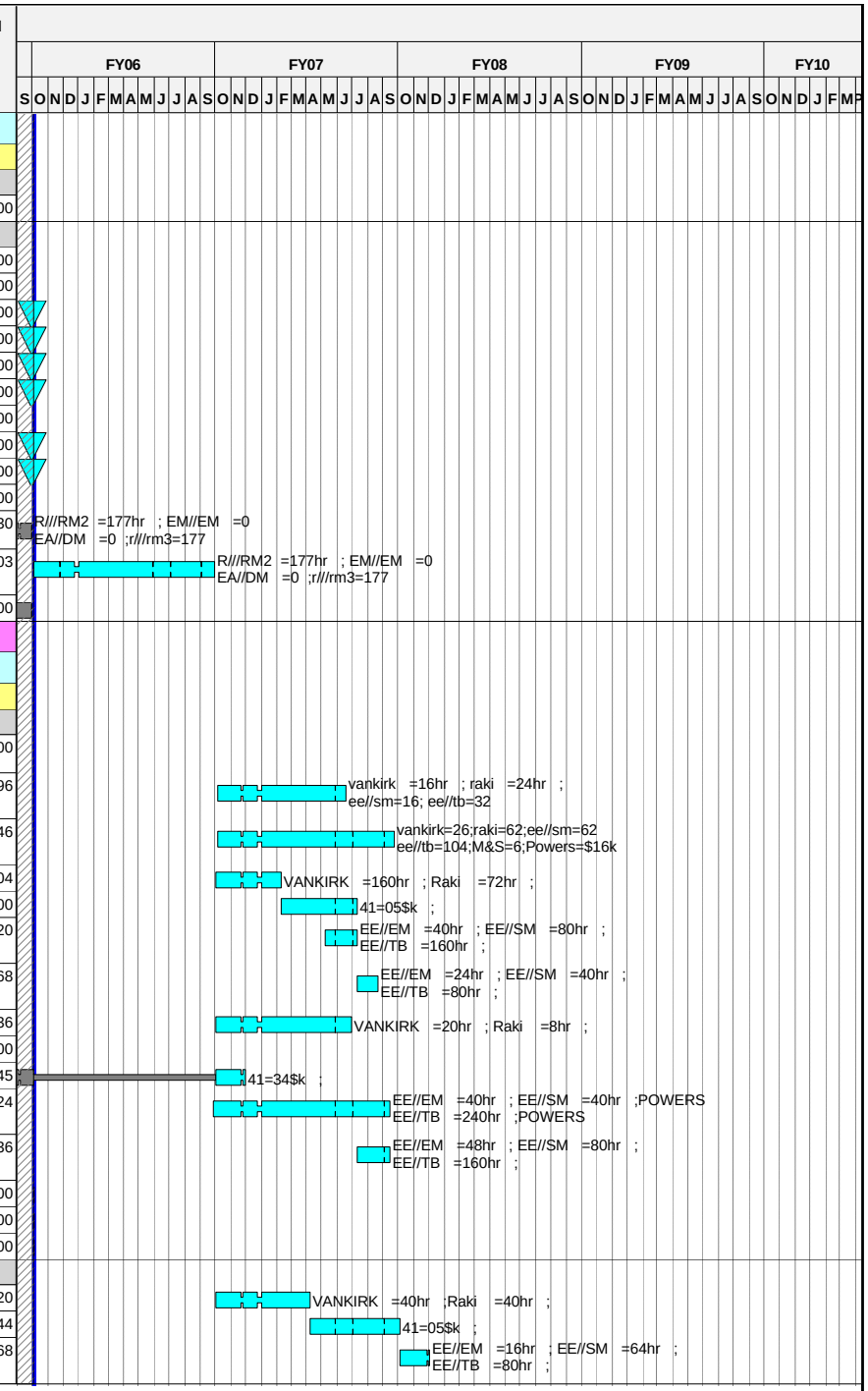
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
39 - Diagnostics Integration									
Job: 3901 - Diagnostics sys Integration-JOHNSON									
Prior Costs									
390-001	LOE Support FY03	01APR03A	151*	30SEP03A			100	155,450.00	155,450.00
390-100	Finalize VV ports (number,size,locations)		0	30JUN04A			100	0.00	0.00
390-110	Resolve port interferences.Final port config		0	30JUN04A			100	0.00	0.00
390-120	Update port map&revise diag port assignments		0	30SEP05*	1,010		90	0.00	0.00
390-130	Rvw status of existing ICD's w/VV & Mod Coils		0	30SEP05*	1,010		100	0.00	0.00
390-140	Write ICD's-Define external space for diagnostic		0	30SEP05*	1,010		50	0.00	0.00
390-150	Write ICD's-Define space f/racks in cntrl rm		0	30SEP05*	1,010		50	0.00	0.00
390-160	Start recruiting diag team at HTPD conference		0	30JUN04A			100	0.00	0.00
390-170	Develop space envelopes for SXR		0	30SEP05*	1,010		70	0.00	0.00
390-180	Hold CDR's co-wound mag sensors&ext saddle		0	30SEP05*	1,010			0.00	0.00
390-010	LOE Support FY04	01OCT03A	250*	30SEP04A			LOE	65,000.00	65,000.00
390-015	LOE Support FY05 **reduced scope	01OCT04A	249*	30SEP05A			LOE	66,357.30	66,357.30
390-020	LOE Support FY06	03OCT05*	249*	29SEP06	761			0.00	70,515.03
FY05CV-33	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				-12,000.00	-12,000.00
4 - Electrical Power Systems									
41 - AC Power									
Job: 4101 - AC Power-RAMAKRISHNAN									
411 - Auxiliary AC Power Systems									
4101-100	Prepare Preliminary One line diagram	01MAR04A	173*	30SEP04A			100	8,442.00	8,442.00
4101-100.1	Prepare Preliminary One line diagram	06OCT06*	173	18JUN07	584			0.00	1,076.96
411-1-100	Ex-Test cell AC pwr-Reactivate& new instl	06OCT06*	241	24SEP07	516			0.00	60,631.46
411-2-2	Grounding-Dsn	02OCT06*	86	08FEB07	364			0.00	31,305.04
411-2-4	Grounding-Procure	09FEB07*	107	11JUL07	364			0.00	6,855.00
411-2-6	Grounding-Install	10MAY07*	43	11JUL07	364			0.00	64,912.20
411-2-8	Grounding-Commission	12JUL07*	29	21AUG07	364			0.00	16,005.68
411-3-2	Test Cell AC Power Distr-Dsn	02OCT06*	186	29JUN07	400			0.00	3,741.36
411-3-2.04	Test Cell AC Power fy04	01APR04A	186*	30SEP04A			100	73,000.00	73,000.00
411-3-4	Test Cell AC Power Distr-Procure(pnls & xfrmrs)	01JUL05A	107*	30NOV06	544		20	8,953.29	44,766.45
411-3-6	Test Cell AC Power Distr-Install	28SEP06*	358	14SEP07	347		50	15,049.12	30,098.24
411-3-8	Test Cell AC Power Distr-Commission	13JUL07*	45	14SEP07	347			0.00	32,011.36
411-4-2	Standby Power for Cryo Sys -Dsn	03OCT05	0	30SEP05	1,010			0.00	0.00
411-4-4	Standby Power for Cryo Sys -Procure	03OCT05	0	30SEP05	1,010			0.00	0.00
411-4-6	Standby Power for Cryo Sys -Install	03OCT05	0	30SEP05	1,010			0.00	0.00
412 - Experimental AC Power Systems									
412-1-2	D-site Pulsed AC Power Distr-Dsn	02OCT06*	128	09APR07	236			0.00	11,605.20
412-1-4	D-site Pulsed AC Power Distr-Procure	10APR07	125	04OCT07	236			0.00	6,860.44
412-1-6	D-site Pulsed AC Power Distr-Install	05OCT07	40	03DEC07	236			0.00	18,215.68



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ECP-38 baseline
Progress Bar
Critical Activity

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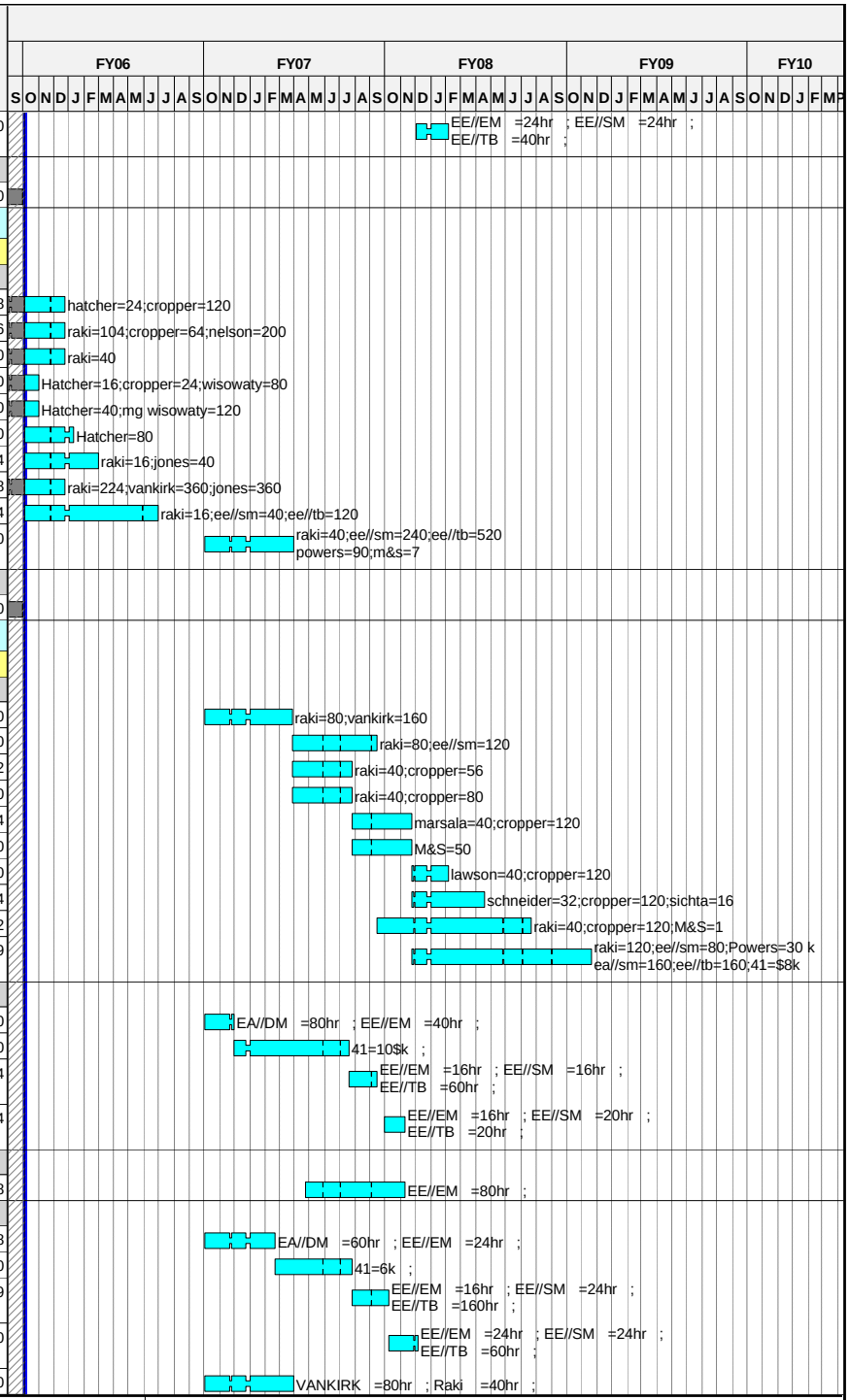
412-1-8	D-site Pulsed AC Power Distr-Commission	04DEC07	40	05FEB08	236			0.00	10,866.80
FY05CV-34	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				2,000.00	2,000.00
43 - DC Systems									
Job: 4301 - DC Systems-RAMAKRISHNAN									
431 - C-Site DC Systems									
431-200	Condition/spare parts inventory	01OCT04A	307*	23DEC05	952		95	16,156.54	17,006.88
431-210	Organize & verify documentation	01OCT04A	307*	23DEC05	952		95	41,559.24	43,746.56
431-215	Document status	01OCT04A	307*	23DEC05	952		90	5,607.72	6,230.80
431-225	Reactivate DF & PEI units	01JUL05A	85*	31OCT05	989		5	559.82	11,196.40
431-230	Load test	01JUL05A	85*	31OCT05	989		5	765.32	15,306.40
431-240	Simulate each of 6 pwr loops in PSCAD	03OCT05*	65	11JAN06	945			0.00	13,447.20
431-250	c-site dc sys DGS dsn documentation	03OCT05*	100	01MAR06	910			0.00	7,322.64
431-260	Power loop design	01NOV04A	286*	23DEC05	952		85	92,296.81	108,584.48
431-265	Fabricate bus components	03OCT05*	185	29JUN06	825			0.00	17,600.64
431-275	Power cabling & Installation	02OCT06*	121	29MAR07	492			0.00	214,510.20
FY05CV-35	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				69,000.00	69,000.00
44 - Control and protection Systems									
Job: 4401 - Control & Protection-RAMAKRISHNAN									
441 - Electrical Interlocks									
441-095	Design Interlock sys	03OCT06*	118	27MAR07	224			0.00	32,679.20
441-097	Install Interlock sys	28MAR07	119	13SEP07	309			0.00	29,272.00
441-100	PLC Specification	28MAR07	85	26JUL07	224			0.00	14,118.32
441-105	Prep Block diagrams	28MAR07	85	26JUL07	224			0.00	17,224.40
441-110	PLC CWD's & Cabling	27JUL07*	85	23NOV07	224			0.00	22,685.24
441-115	deliver PLC	27JUL07*	85	23NOV07	472			0.00	70,250.00
441-120	Program PLC Logic	26NOV07	45	06FEB08	427			0.00	23,004.80
441-125	Program Control pages	26NOV07	97	18APR08	375			0.00	24,097.84
441-130	Pre-commissioning tests	14SEP07	214	23JUL08	309			0.00	24,377.02
441-135	Install I/O Cabling	26NOV07	248	20NOV08	224			0.00	119,268.19
442 - Kirk Key Interlocks									
442-1-2	Kirk Keys-Dsn	02OCT06*	41	29NOV06	290			0.00	16,339.60
442-1-4	Kirk Keys-Procure	30NOV06	158	19JUL07	290			0.00	13,710.00
442-1-6	Kirk Keys-Install	20JUL07	40	14SEP07	290			0.00	44,123.84
442-1-8	Kirk Keys-Commission	01OCT07	30	09NOV07	290			0.00	7,202.24
443 - Real Time Control Systems									
443-1-2	Develop Control Algorithms-Dsn	23APR07*	142	09NOV07	274			0.00	13,819.68
444 - Instrument Systems									
444-2-2	DC Potential Transducers (DCPTs)-Dsn	02OCT06*	95	21FEB07	466			0.00	11,224.08
444-2-4	DC Potential Transducers (DCPTs)-Procure	22FEB07	109	26JUL07	466			0.00	8,226.00
444-2-6	DC Potential Transducers (DCPTs)-Install	27JUL07	51	08OCT07	466			0.00	19,328.29
444-2-8	DC Potential Transducers (DCPTs)-Commission	09OCT07	40	05DEC07	466			0.00	12,588.60
444-3-2	DC Shunts-Dsn	02OCT06*	122	30MAR07	463			0.00	16,339.60



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ECP-38 baseline
Progress Bar
Critical Activity

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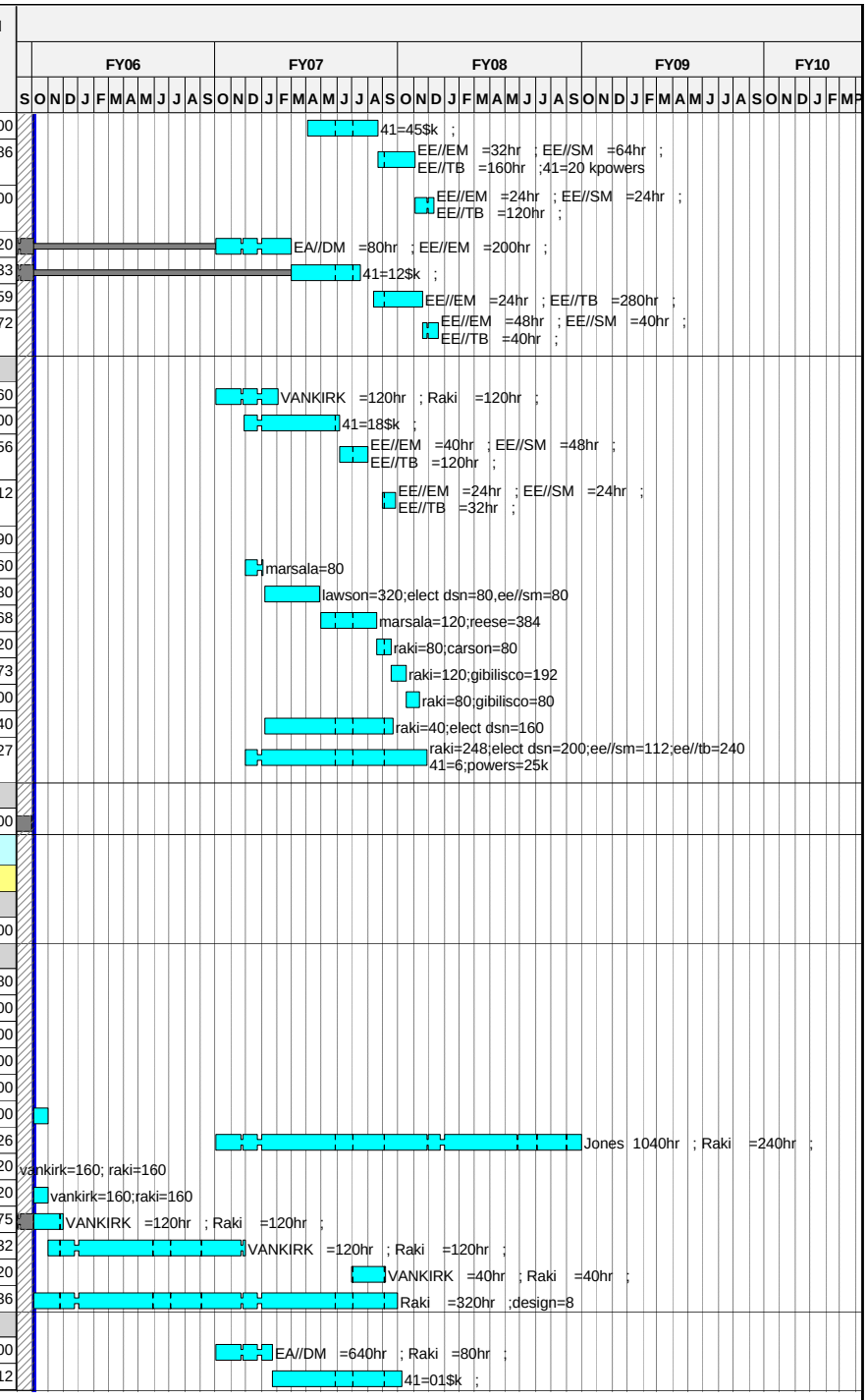
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
444-3-4	DC Shunts-Procure	02APR07	101	22AUG07	463			0.00	61,695.00
444-3-6	DC Shunts-Install	23AUG07	51	02NOV07	463			0.00	55,304.86
444-3-8	DC Shunts-Commission	05NOV07	24	10DEC07	463			0.00	17,754.00
444-4-2	Signal Conditioning & Cabling-Dsn	01JUL05A	165*	28FEB07	454		8	3,365.94	42,074.20
444-4-4	Signal Conditioning & Cabling-Procure	01JUL05A	511*	18JUL07	454		8	1,282.03	16,025.33
444-4-6	Signal Conditioning & Cabling-Install	15AUG07	68	19NOV07	454			0.00	27,988.59
444-4-8	Signal Conditioning & Cabling-Commission	20NOV07	22	21DEC07	454			0.00	17,226.72
445 - Coil Protection Systems									
445-1-2	Ground Fault Protection-Dsn	02OCT06*	82	02FEB07	407			0.00	34,815.60
445-1-4	Ground Fault Protection-Procure	27NOV06*	130	05JUN07	321			0.00	24,678.00
445-1-6	Ground Fault Protection-Install	06JUN07*	40	01AUG07	321			0.00	23,142.56
445-1-8	Ground Fault Protection-Commission	30AUG07	20	27SEP07	321			0.00	9,911.12
445-2-0	Overload Protection & Cabling-Prelim Dsn	01MAR04A	272	30SEP04A				1,054.90	1,054.90
445-2-105	Overload Protect-Write spec and approve	01DEC06*	20	05JAN07	470			0.00	13,741.60
445-2-110	Overload Protect-Design	08JAN07	80	27APR07	480			0.00	74,788.80
445-2-115	Overload Protect-Fabr 4 chassis 120 modls	30APR07*	79	20AUG07	480			0.00	70,309.68
445-2-120	Overload Protect-Test 4 units	21AUG07	20	18SEP07	480			0.00	24,095.20
445-2-125	Overload Protect-Install & Rack wiring	19SEP07	20	16OCT07	480			0.00	46,195.73
445-2-130	Overload Protect-Write & perform ISTP	17OCT07	20	13NOV07	480			0.00	24,744.00
445-2-135	Overload Protect-Documentation	08JAN07*	180	19SEP07	519			0.00	25,808.40
445-2-140	Overload Protection&cabling design,procure instl	01DEC06*	249	27NOV07	470			0.00	144,022.27
FY05CV-36	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				49,000.00	49,000.00
45 - Power System Design and Integration									
Job: 4501 - Power Sys Dsn & Integr-RAMAKRISHNAN									
Prior Costs									
4501-001	Apr-Sept MIE Cost	01APR03A	43*	30SEP03A			100	112,340.00	112,340.00
451 - System Design & Interfaces									
4501-100	Design Drawings	02FEB04A	193*	30SEP04A			100	19,807.80	19,807.80
4501-110	Calculations-FY04	01MAR04A	151*	30SEP04A			100	0.00	0.00
451-0-1	C-Site Decision	30APR04A	0	30APR04A			100	0.00	0.00
451-7-2	FDR DC transmission-Dsn	01MAY04A	0*	28MAY04A			100	10,084.00	10,084.00
451-7-20	FDR DC transmission		0	28MAY04A			100	0.00	0.00
451-0-2	Develop SRD	03OCT05	21	31OCT05	989			0.00	0.00
451-3-2	Dwgs,asbuilts -Elect Dsn	02OCT06*	500*	30SEP08	261			0.00	166,541.26
451-2-1	CDR Power system -Dsn	01DEC04A	208*	31AUG05A			100	41,299.20	41,299.20
451-2-2	PDR Power system -Dsn	03OCT05	21*	31OCT05	719			0.00	45,427.20
451-6-2	FDR C-Site -Cabling	01SEP05A	62*	30NOV05	969		20	6,604.35	33,021.75
451-2-2.1	FDR C-Site	01NOV05	270*	30NOV06	719			0.00	34,186.32
451-4-2	FDR AC auxiliaries & grounding-Dsn	02JUL07*	45	04SEP07	530			0.00	11,605.20
451-1-2	Calculations-Dsn	03OCT05*	498*	28SEP07	512			0.00	55,314.36
452 - Electrical Systems Support									
452-1-2	Diagnostics AC Power Distr-Dsn	03OCT06*	72	22JAN07	186			0.00	89,492.00
452-1-4	Diagnostics AC Power Distr-Procure	23JAN07	182	08OCT07	186			0.00	1,372.12



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ECP-38 baseline
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Critical Activity

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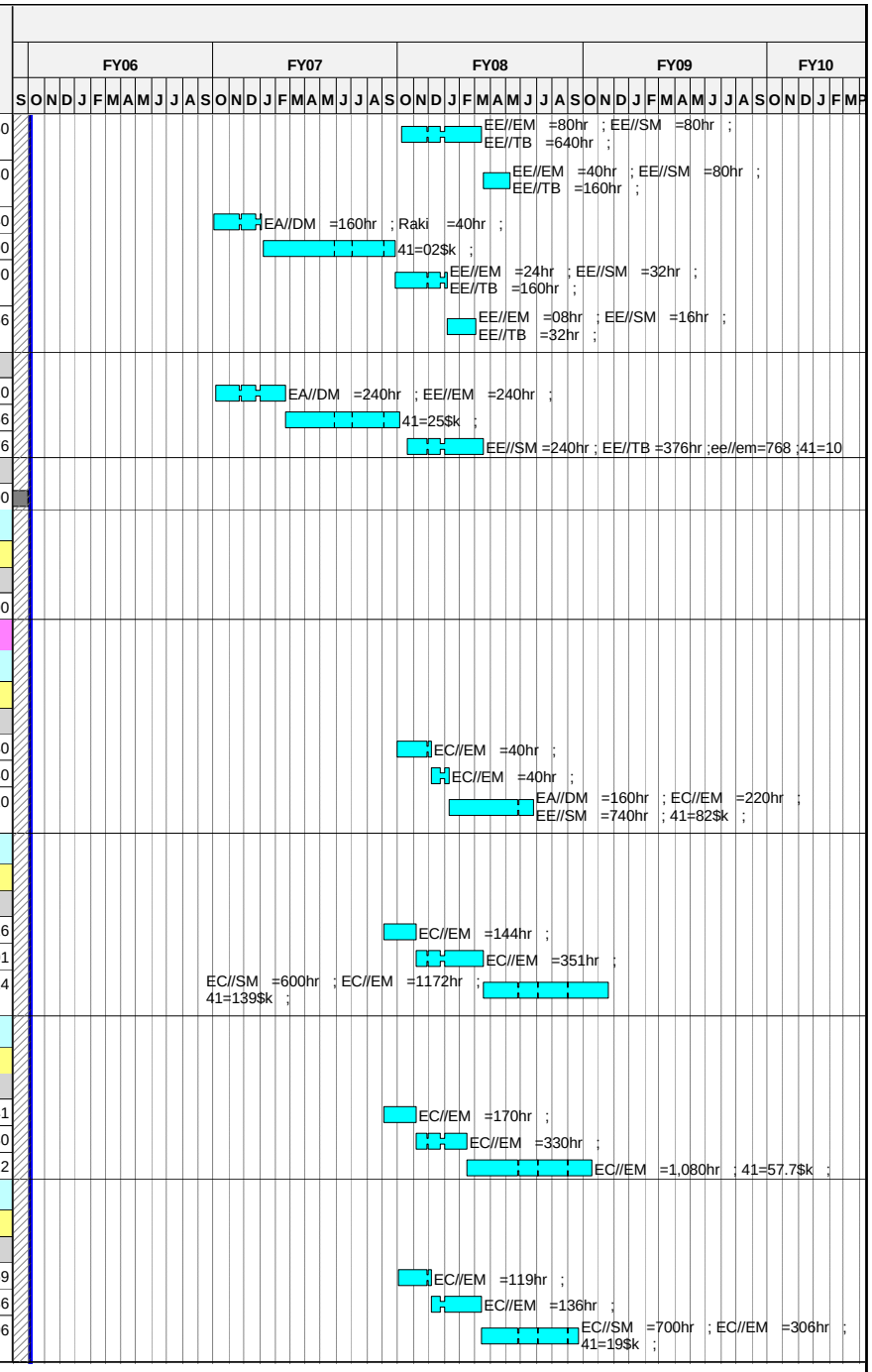
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
452-1-6	Diagnostics AC Power Distr-Install	09OCT07	105	13MAR08	186			0.00	79,841.60
452-1-8	Diagnostics AC Power Distr-Commission	19MAR08	37	08MAY08	186			0.00	31,462.80
452-2-2	Diagnostics sensor cabling-Dsn	03OCT06*	61	05JAN07	234			0.00	25,808.40
452-2-4	Diagnostics sensor cabling-Procure	08JAN07	185	26SEP07	234			0.00	2,742.00
452-2-6	Diagnostics sensor cabling-Install	27SEP07	65	07JAN08	234			0.00	22,242.90
452-2-8	Diagnostics sensor cabling-Commission	08JAN08	40	03MAR08	234			0.00	6,292.56
453 - System Testing (PTP's)									
453-1-2	New Procedures	06OCT06*	90	20FEB07	345			0.00	69,631.20
453-1-4	Preop Testing-Procure test equipt	21FEB07*	160	05OCT07	345			0.00	34,301.56
453-1-8	Testing PTPs, ISTPs	19OCT07*	100	18MAR08	236			0.00	213,785.76
FY05CV-37	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				-52,000.00	-52,000.00
46 - FCPC Building Modifications									
Job: 4601 - FCPC Bldg Mods-RAMAKRISHNAN									
Prior Costs									
4601-001	Apr-Sept MIE Cost	01APR03A	43*	30SEP03A			100	1,300.00	1,300.00
5 - Central I&C Systems									
51 - TCP/IP Infrastructure Systems									
Job: 5101 - TCP/IP Infrastructure Systems									
51-10	Preliminary Design (Title I)	01OCT07*	45	04DEC07	239			0.00	6,260.40
51-20	Final Network Design (Title II)	05DEC07	20	09JAN08	239			0.00	6,260.40
51-30	Installation, Testing, Documentation (Title III)	10JAN08	120	26JUN08	239			0.00	267,865.10
52 - Central Instrumentation & Control									
5201 - I&C Systems									
52-10	Preliminary Design (Title I)	04SEP07*	45	05NOV07	138			0.00	22,288.16
52-20	Final Design (Title II)	06NOV07	87	17MAR08	138			0.00	54,935.01
52-30	Installation, Testing, Documentation (Title III)	18MAR08	173	18NOV08	138			0.00	452,889.24
53 - Data Acquisition & Facility Computing									
5301 - Data Acquisition									
53-10	Preliminary Design (Title I)	04SEP07*	45	05NOV07	160			0.00	26,312.41
53-20	Final Design (Title II)	06NOV07	65	14FEB08	160			0.00	51,648.30
53-30	Coding, Configuration, Testing (Title III)	15FEB08	173	17OCT08	160			0.00	251,112.12
54 - Facility Timing & Synchronization									
Job: 5401 - Facility Timing & Synchronization									
54-10	Preliminary Design (Title I)	02OCT07*	45	05DEC07	178			0.00	18,624.69
54-20	Final Design (Title II)	06DEC07	65	13MAR08	178			0.00	21,285.36
54-30	Installation, Testing, Documentation (Title III)	14MAR08	135	23SEP08	178			0.00	155,913.06



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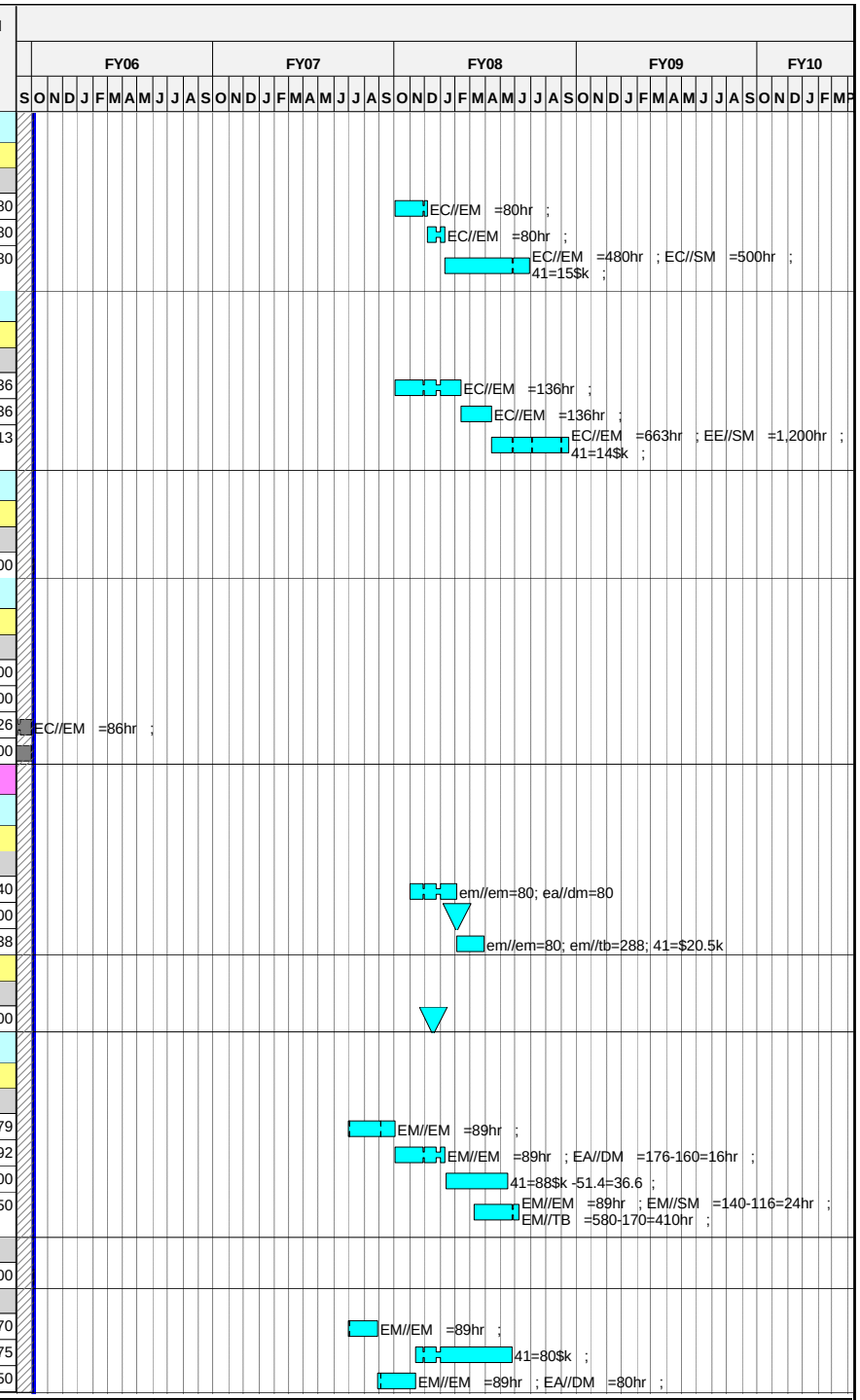
55 - Real Time Plasma & Power Supply Control Sys									
5501 - Real Time Control System									
55-10	Preliminary Design (Title I)	02OCT07*	45	05DEC07	238			0.00	12,520.80
55-20	Final Design (Title II)	06DEC07	20	10JAN08	238			0.00	12,520.80
55-30	Installation, Testing, Documentation (Title III)	11JAN08	120	27JUN08	238			0.00	154,289.80
56 - Central Safety Interlock Systems									
Job: 5601 - Central Safety Interlock Systems									
56-10	Preliminary Design (Title I)	02OCT07*	87	11FEB08	183			0.00	21,285.36
56-20	Final Design (Title II)	12FEB08	45	14APR08	183			0.00	21,285.36
56-30	Installation, Testing, Documentation (Title III)	15APR08	108	16SEP08	183			0.00	282,928.13
57 - Control Room Facility									
Job: 5701 - Control Room Facility									
57-10		03OCT05	0	30SEP05	1,010			0.00	0.00
58 - Central I&C management and Integration									
Job: 5801 -Central I&C Integr & Oversight-SICHTA									
51-00	FY03	01APR03A	250*	30SEP03A			LOE	11,900.00	11,900.00
51-01	FY04 LOE support	01OCT03A	250*	30SEP04A			LOE	16,000.00	16,000.00
51-02	FY05 LOE support	01OCT04A	249*	30SEP05A			LOE	12,462.26	12,462.26
FY05CV-38	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				-7,000.00	-7,000.00
6 - Facility Systems									
61 - Water Systems									
Job:6101 - Water Systems									
613 - Vacuum Pumping System									
623.011	Design WBS 612	01NOV07*	59	01FEB08	210			0.00	24,290.40
623.013	FDR WBS 612		0	01FEB08	210			0.00	0.00
632.021	WBS 612 Assembly/Fabrication/Installation	04FEB08	40	28MAR08	210			0.00	67,981.38
613 - Vacuum Pumping System									
623.012	PDR WBS 612	17DEC07	0		239			0.00	0.00
62 - Cryogenic Systems									
Job: 6201 - Cryogenic Systems									
621 - LN2-LHe Supply System									
631-001	Preliminary Design	02JUL07*	65	02OCT07	252			0.00	15,792.79
631-010	Final Design**reduced scope	03OCT07	65	11JAN08	252			0.00	18,149.92
631-020	Procurement **reduced scope	14JAN08	88	14MAY08	252			0.00	123,078.00
631-015	Fab/Assy/Installation**reduced scope	10MAR08	65	09JUN08	252			0.00	71,991.50
622 - LN2 Coil Cooling Supply									
632-001	**deleted scope	03OCT05	0	30SEP05	1,010			0.00	0.00
623 - GN2 Cryostat Cooling System									
633-001	Preliminary Design	02JUL07*	40	27AUG07	262			0.00	15,779.70
633-020	Procurement	14NOV07	130	23MAY08	262			0.00	112,329.75
633-010	Final Design	28AUG07	55	13NOV07	262			0.00	25,644.50



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ECP-38 baseline
Progress Bar
Critical Activity

EC38

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Proposed PMB Baseline

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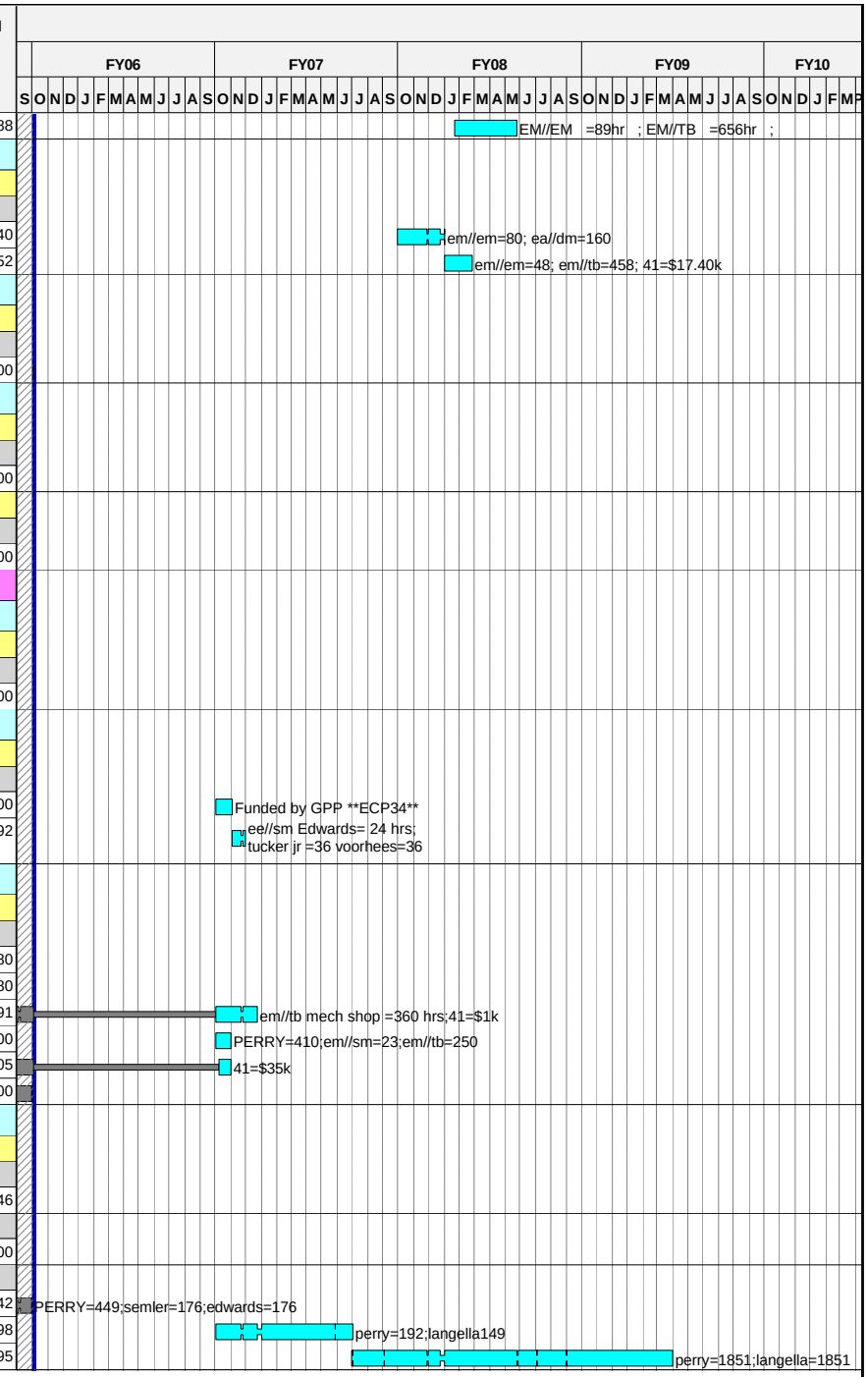
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
633-015	Fab/Assy/Installation	23JAN08	88	23MAY08	262			0.00	72,266.88
63 - Utility Systems									
Job: 6301 - Utility Systems									
640.011	Design GN2, Air & Vent Systems	01OCT07*	59	01JAN08	251			0.00	34,014.40
640.021	Assembly/Fabrication	02JAN08	40	26FEB08	251			0.00	72,889.52
64 - PFC/VV Heating & Cooling*ELIMINATED*									
Job: 6401 - PFC/VV Heating & Cooling									
650.001	Eliminated scope	03OCT05	0	30SEP05	1,010			0.00	0.00
65 - Facility Systems Integration									
Job: 6163 - Facility Systems Support FY04									
65-03	LOE WBS 6	01OCT03A	250*	30SEP04A			LOE	15,000.00	15,000.00
Job: 6501 - Facility Systems Integration-DUDEK									
Prior Costs									
6501-001	Apr-Sept MIE Cost PPPL	01APR03A	0	30SEP03A			100	9,380.00	9,380.00
7 - Test Cell Preparation and Machine Assy									
71 - Shield Wall Seismic Modifications									
Job: 7101 - Shield Wall Modif Design-PERRY									
Prior Costs									
7101-000	Apr-Sept MIE Cost PPPL	01APR03A	66	30SEP03A			100	32,150.00	32,150.00
72 - Control Room Refurbishment									
Job: 7201 - Control Room Walls&Floors-PERRY									
710.001	Install Wall east side control room	02OCT06*	24	02NOV06	719			0.00	0.00
711B.050	Complete Control Room Flooring	03NOV06*	18	30NOV06	719			0.00	9,097.92
73 - Platform Design & Fabrication									
Job: 7301 - Platform Design & Fab-PERRY									
712.008	Update Platform Specification	01JUN05A	0*	30JUN05A			100	6,416.80	6,416.80
712.010	Final Design	02MAY05A	43*	30JUN05A			100	53,163.80	53,163.80
711A.040	Platform nut plates	01APR05A	187*	22DEC06	703		90	26,201.62	29,112.91
712.020	Platform Parts	02OCT06*	22	31OCT06	743			0.00	25,591.00
712.030	Miscs Hardware/Material	01JUL05A	83*	31OCT06	393		80	36,390.44	45,488.05
FY05CV-39	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				-50,000.00	-50,000.00
74 - Machine Assembly Planning and Oversight									
Job: 7401 - TC Prep & Mach Assy Planning-PERRY									
Oversight and Supervision									
711A.020	LOE FY04	01OCT03A	256*	30SEP04A			LOE	148,582.46	148,582.46
Prior Costs									
7401-001	Apr-Sept MIE Cost PPPL	01APR03A	66	30SEP03A			100	164,000.00	164,000.00
Project Scope									
714.010	LOE FY05	01OCT04A	249*	30SEP05A			LOE	109,972.42	109,972.42
714.020	LOE FY06 prior to assy starting	02OCT06*	187*	02JUL07	574			0.00	53,510.98
714.030	LOE FY07 thru first plasma	02JUL07*	444*	31MAR09	131			0.00	877,620.95



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ECP-38 baseline
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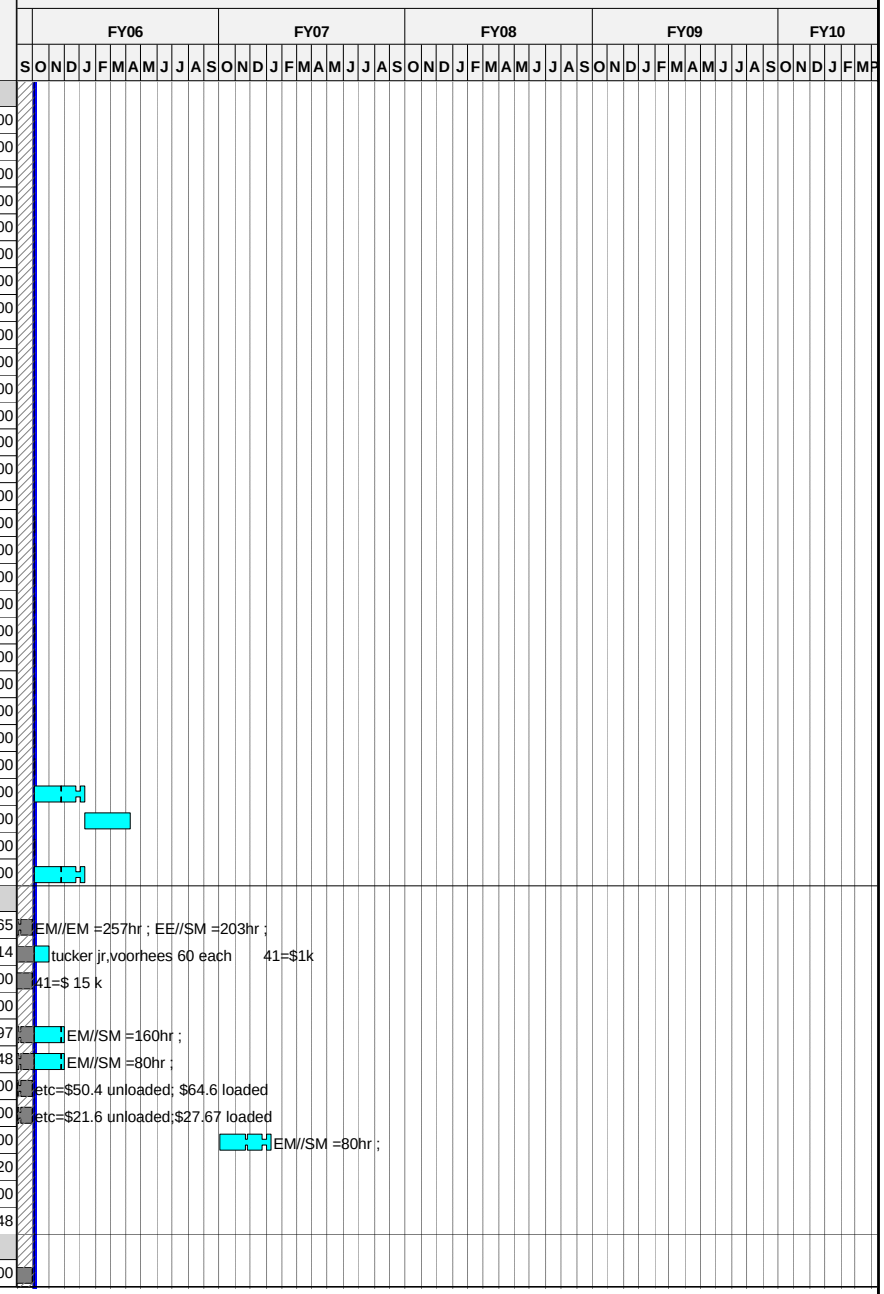
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
FED/Infrastructure Support (non Project cost)									
613.010	Remove Shield Walls ** GPP **	01APR04A	64*	22JUN04A			100	0.00	0.00
613.015	Fabricate New Bottom Course of Blocks **GPP**	01APR04A	207*	31JAN05A			100	0.00	0.00
613.017	Install New Bottom Course **GPP**	01AUG05A	0*	31AUG05A			100	0.00	0.00
613.020	Remove south PLT shielding (cc 7230)	01JUN04A	0*	22JUN04A			100	0.00	0.00
613.025	Dispose of old south PLT shielding **GPP**	01AUG04A	0*	31AUG04A			100	0.00	0.00
EXFAC003	Clear PBX control room & Safe PBX (cc7230)	27JAN03A	110*	30JUN03A			100	0.00	0.00
EXFAC004	Remove Fire protection PLT wall (cc7230)	01MAY03A	21	09MAY03A			100	0.00	0.00
EXFAC005	Remove Fire Protection under platform (cc7230)	01APR03A	21	30APR03A			100	0.00	0.00
EXFAC006	Remove Fire Protection Control rm walls(cc7230)	01MAY03A	21	09MAY03A			100	0.00	0.00
EXFAC007	Remove PBX Base Plates cc7230)	25FEB04A	48*	12MAR04A			100	0.00	0.00
GPP001	GPP-Upgarde C-Site central chilled wtr	01OCT02A	1	01OCT02A			100	0.00	0.00
GPP004	GPP-Roofing Design	01APR04A	291	31MAY05A			100	0.00	0.00
GPP004.1	GPP-Roofing Install	01MAY05A	0	31MAY05A			100	0.00	0.00
GPP005	GPP-Test Cell lighting Design	01APR04A	206*	31JAN05A			100	0.00	0.00
GPP005.1	GPP-Test Cell lighting Install ***TBD***	02MAY05A	0	31MAY05A			100	0.00	0.00
GPP006	GPP-Test Cell HVAC/dew point control	03OCT05	0	30SEP05	1,010			0.00	0.00
GPP006.1	GPP-Test Cell HVAC/dew point control	03OCT05*	0	30SEP05	1,010			0.00	0.00
GPP007	GPP-C-Site elevators Design	03OCT05*	0	30SEP05	1,010			0.00	0.00
GPP007.1	GPP-C-Site elevators Install	03OCT05	0	30SEP05	1,010			0.00	0.00
GPP008	GPP-Fire suppression high bay design*TBD*	03OCT05	0	30SEP05	1,010			0.00	0.00
GPP008.1	GPP-Fire suppression high bay install*TBD*	03OCT05	0	30SEP05	1,010			0.00	0.00
GPP009	Control Room Lights & Outlets design*TBD*	03OCT05	0	30SEP05	946			0.00	0.00
GPP009.1	Control Room Lights & Outlets install*TBD*	03OCT05	0	30SEP05	946			0.00	0.00
GPP010	Control Room HVAC Design **TBD**	03OCT05	0	30SEP05	946			0.00	0.00
GPP010.1	Control Room HVAC Install **TBD**	03OCT05	0	30SEP05	946			0.00	0.00
GPP011	Control Room Ceiling Design	03OCT05*	64	10JAN06	882			0.00	0.00
GPP011.1	Control Room Ceiling Install	11JAN06	64	10APR06	882			0.00	0.00
GPP012	Control Rm Fire Detection & Suppression	03OCT05*	0	30SEP05	882			0.00	0.00
GPP012.1	Control RmFire Detection & Suppression Install	03OCT05	64	10JAN06	882			0.00	0.00
Test Cell Modifications & Upgrades									
714.020X	TC power instl	01AUG05A	436*	30SEP05A				63,673.65	63,673.65
613.030	Test Cell copper ground plane cuts	01JUL05A	87*	01NOV05	993		80	8,364.91	10,456.14
713.010	General procurements	02APR05A	128*	30SEP05A			LOE	19,215.00	19,215.00
7502-000	Outlet Design	02FEB04A	107*	30JUN04A			100	25,272.00	25,272.00
7502-001	Test Cell 110v outlets	01APR05A	169*	30NOV05	969		50	8,851.49	17,702.97
7502-002	Test Cell 208v outlets	01APR05A	169*	30NOV05	969		50	4,425.74	8,851.48
7502-003	Install 480v power in test cell	01SEP05A	0*	30SEP05A			100	0.00	0.00
7502-004	Install 120v panels in test cell	01SEP05A	0*	30SEP05A			100	0.00	0.00
7502-010	Ready Rooms (under control room) 110v outlets	02OCT06*	65	10JAN07	570			0.00	10,480.00
7502-011	Cable Removal in test cell (S04335-32)	01OCT03A	0*	31OCT03A			100	9,937.20	9,937.20
7502-025	TC Floor penetration covers	03NOV03A	42	26NOV03A			100	16,848.00	16,848.00
EXFAC001.2	Complete Crane Modifications (S04354)	02FEB04A	0*	30JAN04A			100	37,608.48	37,608.48
FY05CV-40	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				178,000.00	178,000.00



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ECP-38 baseline
Progress Bar
Critical Activity

EC38

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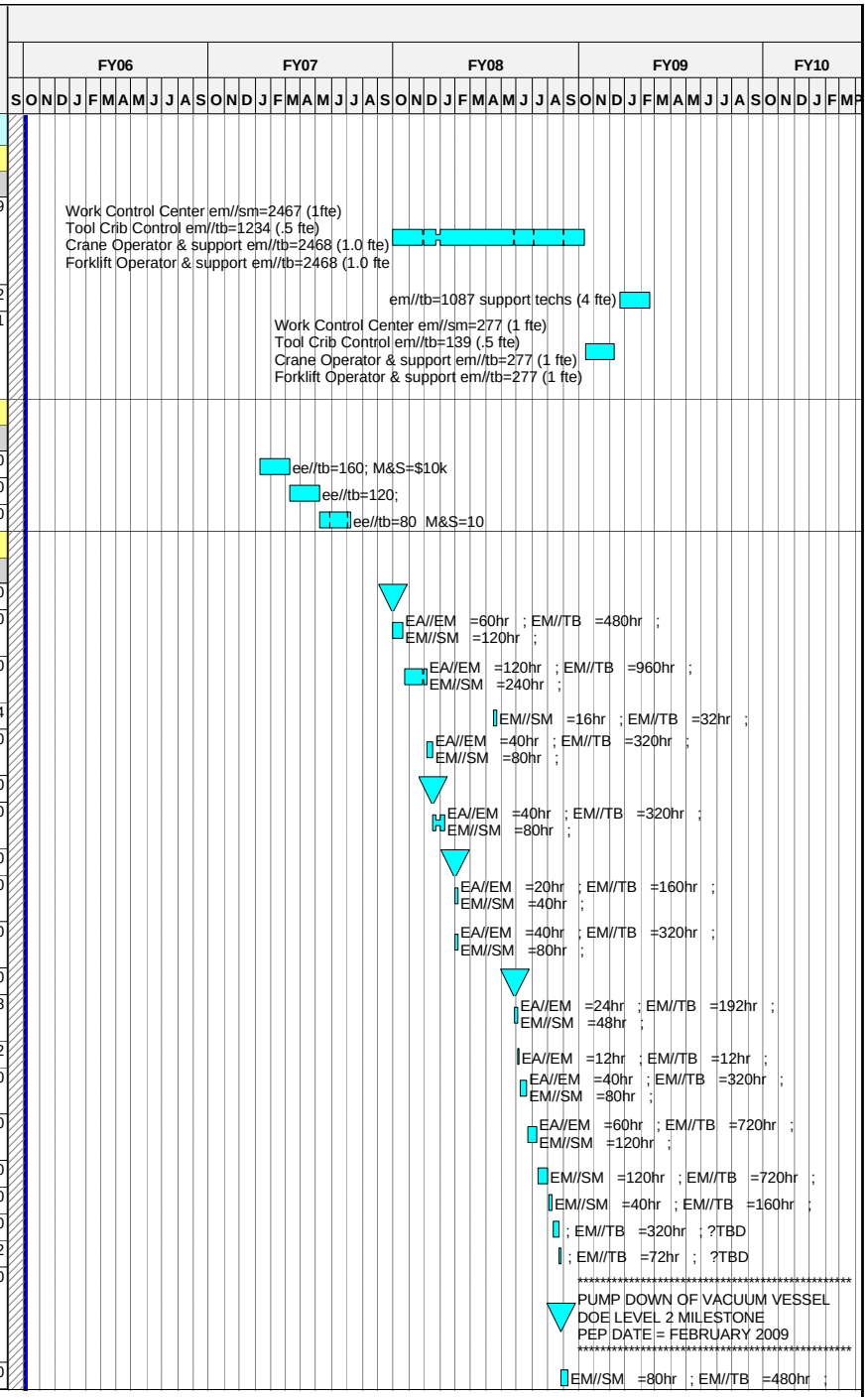
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
75 - Test Cell and Basement Assembly Operations									
7501 - Construction Support Crew									
7501-05	Construction Support Crew during machine assy	01OCT07*	260	13OCT08	164			0.00	861,133.69
7501-06	Construction Support Crew during e-beam	24DEC08*	41	18FEB09	160			0.00	99,199.62
7501-07	Construction Support Crew during cryostat instl	15OCT08*	40	09DEC08	211			0.00	103,081.21
7502 - Test Cell Facility Preparations									
7502-020	Resurface TC floor	11JAN07*	42	09MAR07	570			0.00	34,670.00
7502-030	TC Floor firesealing	12MAR07	42	08MAY07	570			0.00	15,720.00
7502-035	Control room firesealing	09MAY07	42	09JUL07	570			0.00	24,190.00
7503 - Machine Assembly									
Revised Assembly Logic (ecp18)									
7503-010	Begin Assembly Activities	01OCT07*	0		164			0.00	0.00
7503-020	Install & Level Support Base Plates	01OCT07	15	19OCT07	225			0.00	68,122.20
7503-030	Install/Level FPA's and Spool Piece supports	22OCT07	30	04DEC07	225			0.00	136,244.40
7503-060	Install Lower PF 4,5&6 into prelim position	18APR08	2	21APR08	148			0.00	4,887.04
7503-070	Install 3 Spool Pieces on fixt & test movement	05DEC07	10	18DEC07	225			0.00	45,414.80
7503-080	FPA-1 Installed on support platform		0	18DEC07	225			0.00	0.00
7503-090	Install local Platforms around FPA-1	19DEC07	10	10JAN08	226			0.00	45,414.80
7503-110	FPA-2 Installed on support platform		0	30JAN08	201			0.00	0.00
7503-120	Test movement of FPA-1& -2 & position checks.	31JAN08	5	06FEB08	201			0.00	22,707.40
7503-130	Install local Platforms around FPA-2	31JAN08	3	04FEB08	209			0.00	45,414.80
7503-150	FPA-3 Installed on support platform		0	26MAY08	123			0.00	0.00
7503-160	Position all FPA's / Spool Pieces @ MC Interface	27MAY08	6	03JUN08	123			0.00	27,248.88
7503-170	FPA Metrology Checks to Assure Alignment	04JUN08	3	06JUN08	123			0.00	3,217.32
7503-190	Install local Platforms around FPA-3	09JUN08	10	20JUN08	123			0.00	45,414.80
7503-180	MC Interfaces: shim, ream holes ,bolt together	23JUN08	15	11JUL08	123			0.00	88,632.60
7503-200	Mate-up and weld all VV-to-Spool interfaces	14JUL08	15	01AUG08	123			0.00	77,673.60
7503-240	Bolt on preassembled pump duct	04AUG08	5	08AUG08	123			0.00	19,054.40
7503-240.1	Install insulation boots	11AUG08	10	22AUG08	123			0.00	27,347.20
7503-240.2	Install insulation	25AUG08	3	27AUG08	123			0.00	6,153.12
7503-250	Begin Vac Vsl Pumpdown	28AUG08	0		123			0.00	0.00
7503-260	PTP Pumpdown & leak check VV	28AUG08	10	10SEP08	123			0.00	51,782.40



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ECP-38 baseline
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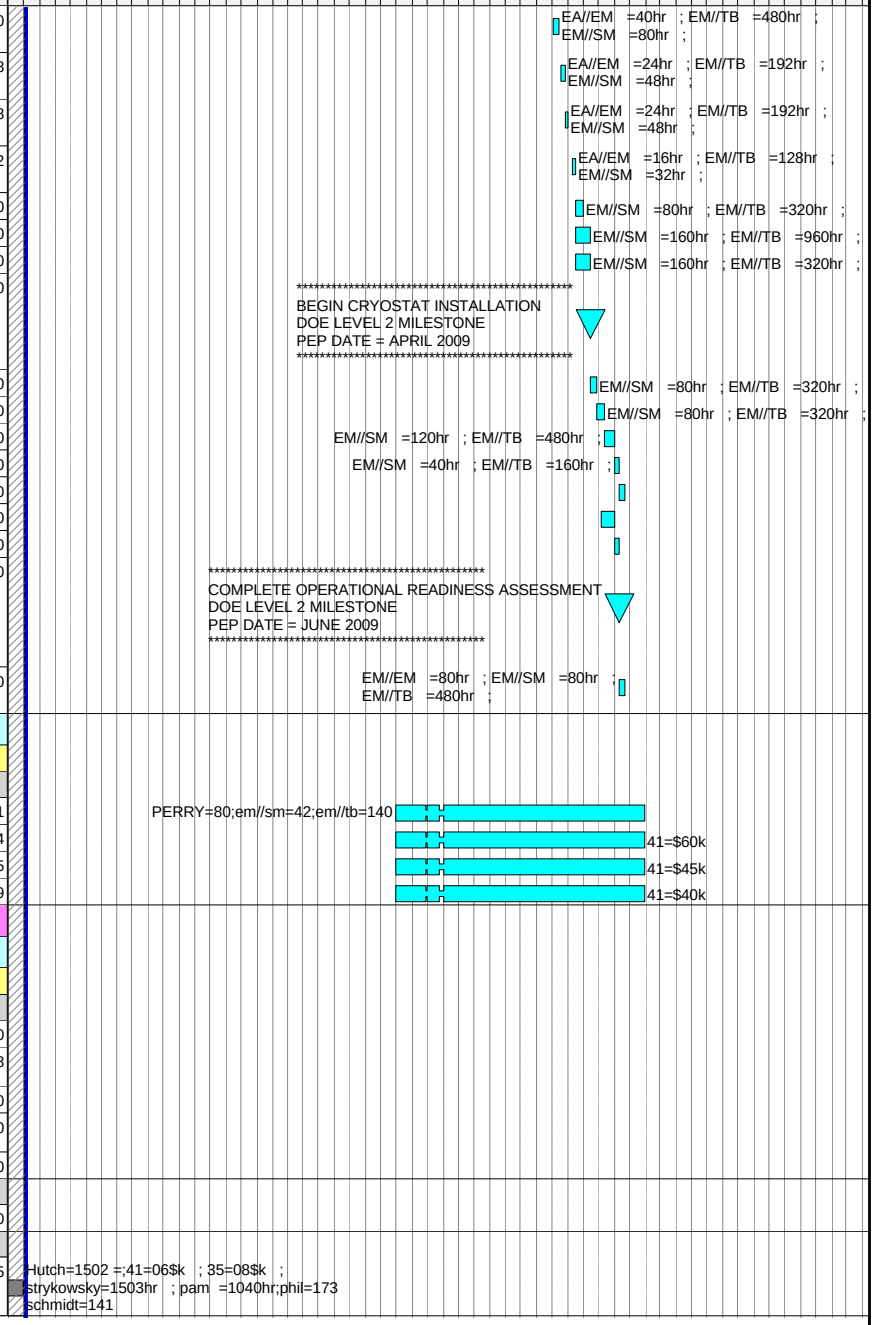
7503-210	Fit-up all TF coils	04AUG08	10	15AUG08	129			0.00	59,088.40
7503-270	Raise lower PF 4,5&6 coils into final position	18AUG08	6	25AUG08	129			0.00	27,248.88
7503-280	Install Upper PF 4,5 & 6 coils	26AUG08	6	02SEP08	129			0.00	27,248.88
7503-290	Install PF Solenoid into position (U/L PF1,2,3)	11SEP08	4	16SEP08	123			0.00	18,165.92
7503-310	Complete LN2 connections	17SEP08	10	30SEP08	133			0.00	38,108.80
7503-320	Complete Elect Pwr connections	17SEP08	20	14OCT08	123			0.00	107,079.20
7503-321	Complete mag diag & machine I&C	17SEP08	20	14OCT08	123			0.00	50,528.80
7503-330	Begin Cryostat Installation	15OCT08	0		123			0.00	0.00
7503-340	Install Cryostat Base, vapor barrie& port boots	15OCT08	10	28OCT08	123			0.00	40,695.20
7503-350	Install Cryostat upper section,VB and port boots	29OCT08	10	11NOV08	123			0.00	40,695.20
7503-360	Install Midplane Cryostat sections and port boot	12NOV08	15	02DEC08	123			0.00	61,042.80
7503-370	Install Cryostat Circulation Duct	03DEC08	5	09DEC08	123			0.00	20,347.60
730.8200Z	PTP and Cooldown (dup of 730.8200)	10DEC08	10	23DEC08	201			0.00	0.00
730.1248	ACC Review	05NOV08	20	02DEC08	123			0.00	0.00
730.1249	PSO Operational Readiness Assessment	03DEC08	5	09DEC08	123			0.00	0.00
730.1250	PSO Operational Readiness Assessment		0	09DEC08	123			0.00	0.00
730.8200	PTP and Cooldown	10DEC08	10	23DEC08	123			0.00	70,850.40
76 - Tooling Design & Fabrication									
Job: 7601 - Tooling Design & Fabrication									
713.020	Lab Fab/Assy/Installation	01OCT07*	341*	30JAN09	173			0.00	32,743.91
713.030	Tooling,assy fixtures,misc equipt	01OCT07*	341*	30JAN09	173			0.00	84,841.94
713.040	General procurements	01OCT07*	341*	30JAN09	173			0.00	63,631.45
713.050	Welding tools, materials & equipt	01OCT07*	341*	30JAN09	173			0.00	56,561.29
8 - Project Oversight and Support									
81 - Project Management and Control									
Job: 8101 - Project Management & Control-NEILSON									
FY04 Actual Cost									
M-0110	CD-2		0	03FEB04A				0.00	0.00
810.009	PDR Support	01OCT03A	3*	31OCT03A			100	41,163.08	41,163.08
M-0115	CD-3		0	16SEP04A				0.00	0.00
810.002	Project Management Office PPPL FY04	01OCT03A	256*	30SEP04A			LOE	685,961.70	685,961.70
810.002E	Project Management Office PPPL FY04 ECP24	01OCT03A	256*	30SEP04A			LOE	146,000.00	146,000.00
Prior Costs									
810.001	Apr-Sept MIE Cost PPPL	01APR03A	128*	30SEP03A			100	387,340.00	387,340.00
810.003	Project Management Office PPPL FY05	01OCT04A	251*	30SEP05A			LOE	696,116.95	696,116.95



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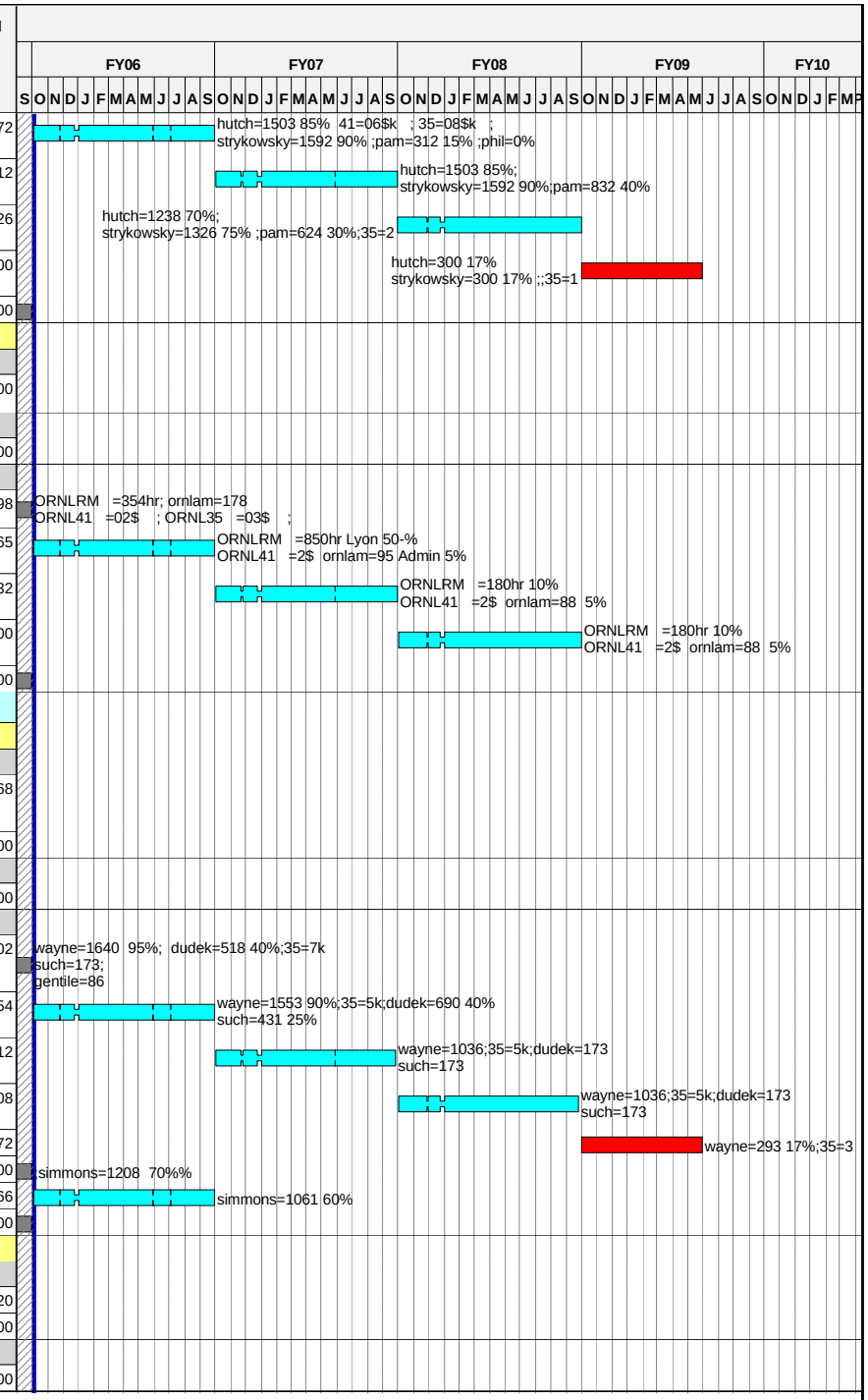
810.004	Project Management Office PPPL FY06	03OCT05*	250*	29SEP06	765			0.00	634,642.72
810.005	Project Management OfficePPPL FY07	02OCT06*	251*	28SEP07	514			0.00	662,100.12
810.900	Project Management Office PPPL FY08	01OCT07*	253*	30SEP08	261			0.00	554,496.26
810.909	Project Management Office PPPL FY09	01OCT08*	173*	29MAY09	88			0.00	132,273.00
FY05CV-41	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				-3,000.00	-3,000.00
Job: 8102 - NCSX MIE Management ORNL-LYON									
FY04 Actual Cost									
810.102	Project Management Office ORNL FY04	01OCT03A	256*	30SEP04A			LOE	88,000.00	88,000.00
Prior Costs									
810.101	Apr-Sept MIE Cost ORNL	01APR03A	129*	30SEP03A			100	58,600.00	58,600.00
810.103	Project Management Office ORNL FY05	01OCT04A	251*	30SEP05A			LOE	95,368.98	95,368.98
810.104	Project Management Office ORNL FY06	03OCT05*	250*	29SEP06	514			0.00	173,610.65
810.104X	Project Management Office ORNL FY07	02OCT06	251*	28SEP07	514			0.00	50,514.32
810.105X	Project Management Office ORNL FY08	02OCT07*	251*	29SEP08	262			0.00	36,664.00
FY05CV-42	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				13,000.00	13,000.00
82 - Project Engineering									
Job: 8202 - Engr Mgmt & Sys Eng Support-REIERSEN									
FY04 Actual Cost									
820.002	LOE FY04	01OCT03A	256*	30SEP04A			LOE	601,555.68	601,555.68
8202-ECP16	ecp16	01OCT03A	256*	30SEP04A			LOE	68,000.00	68,000.00
Prior Costs									
820.110	Apr-Sept MIE Cost PPPL	01APR03A	128*	30SEP03A			100	295,530.00	295,530.00
820.003	Proj engr FY05	01OCT04A	251*	30SEP05A			LOE	469,631.02	469,631.02
820.004	Proj engr FY06	03OCT05*	250*	29SEP06	765			0.00	440,965.54
820.04X	Proj engr FY07	02OCT06*	248*	25SEP07	517			0.00	239,641.12
820.004Z	Proj engr FY08	02OCT07*	249*	25SEP08	264			0.00	245,966.08
820.005	Proj engr FY09	01OCT08*	173*	29MAY09	88			0.00	62,798.72
8205FY05	System Engr Support FY05	01OCT04A	251*	30SEP05A			LOE	199,622.00	199,622.00
8205FY06	Systems Engineering Support FY06	03OCT05*	250*	29SEP06	765			0.00	184,677.66
FY05CV-44	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				-19,000.00	-19,000.00
Job: 8203 - Design Integration-BROWN									
FY04 Actual Cost									
820.200	LOE FY04	01OCT03A	256*	30SEP04A			LOE	247,570.20	247,570.20
8203-ECP16	ecp16	01OCT03A	256*	30SEP04A			LOE	125,000.00	125,000.00
Prior Costs									
820.150	Apr-Sept MIE Cost PPPL	01APR03A	128*	30SEP03A			100	178,750.00	178,750.00



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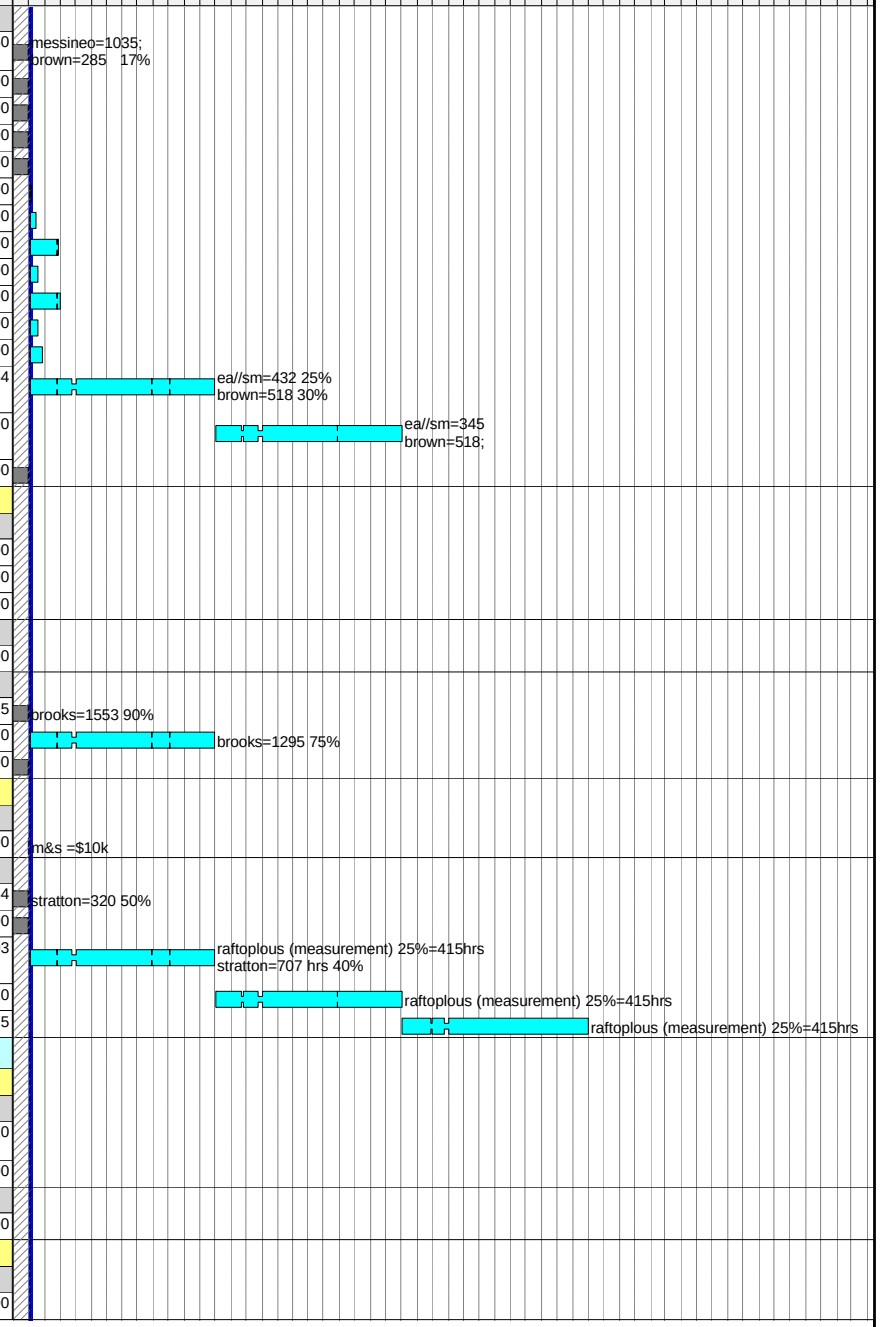
Activity ID	Activity Description	Baseline Start	Duration (work days	Baseline Finish	Total Float in days (21 days= 1 mo.)	Shifts	Pct Complete as of 10/1/05	Earned value (BCWP)	Proposed PMB Budget
8203FY05	Design Integration FY05 LOE	01OCT04A	251*	30SEP05A				171,028.50	171,028.50
8203-01	General Design Integration	01OCT04A	251*	30SEP05A			LOE	0.00	0.00
8203-02	Suprt interface aux sys dev&coolant/lead routing	01OCT04A	251*	30SEP05A			LOE	0.00	0.00
8203-03	Develop /maintain Pro/E model of NCSX facility	01OCT04A	251*	30SEP05A			LOE	0.00	0.00
8203-04	Support metrology efforts	01OCT04A	251*	30SEP05A			LOE	0.00	0.00
8203-06	Complt rvw of machine assembly approach	03OCT05*	4	06OCT05	1,011			0.00	0.00
8203-07	Rvw cryostat & conventional magnet sys design	03OCT05*	9	13OCT05	1,006			0.00	0.00
8203-08	tollerance reqmnts for MCsuprt install fixt dwgs	03OCT05*	39	28NOV05	976			0.00	0.00
8203-09	Machine suprt dsn f/compatibility with assy reqt	03OCT05*	12	18OCT05	1,003			0.00	0.00
8203-10	Dynamic simul MC half period install fixt w/ Pro	03OCT05*	42	01DEC05	973			0.00	0.00
8203-11	Document NCSX Interlink& dwg control process	03OCT05*	11	17OCT05	1,004			0.00	0.00
8203-12	Update definition VV spool piece assy simul	03OCT05*	19	27OCT05	996			0.00	0.00
8203FY06	Design Integration FY06	03OCT05*	250*	29SEP06	765			0.00	140,201.64
8203FY07	Design Integration FY07	02OCT06*	252*	01OCT07	513			0.00	132,979.90
FY05CV-45	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				-36,000.00	-36,000.00
Job: 8204 - Systems Analysis-BROOKS									
FY04 Actual Cost									
820.174	LOE FY04	01OCT03A	172*	30SEP04A			LOE	133,179.00	133,179.00
8204.01	Assess magnetic material in test cell	02FEB04A	85*	28MAY04A			100	37,080.00	37,080.00
8204.02	Model effects local high MU regions on MCWF	01MAY04A	29	28MAY04A			100	18,540.00	18,540.00
Prior Costs									
820.173	Apr-Sept MIE Cost PPPL	01APR03A	128*	30SEP03A			100	44,620.00	44,620.00
8204FY05	Systems Analysis FY05	01OCT04A	251*	30SEP05A			LOE	256,633.25	256,633.25
8204FY06	Systems Analysis FY06	03OCT05*	250*	29SEP06	765			0.00	225,407.70
FY05CV-46	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				9,000.00	9,000.00
Job: 8205 - Dimensional Control Coordination									
Metrology									
740.135	Gary Puhl subcontract for metrology support	30SEP05A	77	30SEP05A				12,810.00	12,810.00
METFY05	Dimensional control FY05 ECP24	01FEB05A	172*	30SEP05A			LOE	96,648.84	96,648.84
FY05CV-47	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				-20,000.00	-20,000.00
METFY06R	Metrology for FP & machine assy FY06	03OCT05*	250*	29SEP06	765			0.00	189,307.03
METFY07R	Metrology for FP & machine assy FY07	03OCT06*	251*	01OCT07	513			0.00	74,115.10
METFY08R	Metrology for FP & machine assy FY08	03OCT07*	250*	29SEP08	262			0.00	75,799.75
84 - Project Physics									
Job: 8401 - Project Physcis-ZARNSTORFF									
FY04 Actual Cost									
840.202	Project Physics/Engr Analysis FY04	01OCT03A	256*	30SEP04A			LOE	99,806.20	99,806.20
840.203	Closeout cost FY04 ECP-21	01OCT03A	256*	30SEP04A			LOE	14,000.00	14,000.00
Prior Costs									
840.201	Apr-Sept MIE Cost PPPL	01APR03A	128*	30SEP03A			100	210,270.00	210,270.00
Job: 8402 - Project Physics MIE ORNL-LYON									
FY04 Actual Cost									
840.302	Project Physics/Engr Analysis FY04	01OCT03A	256*	30SEP04A			LOE	60,876.00	60,876.00



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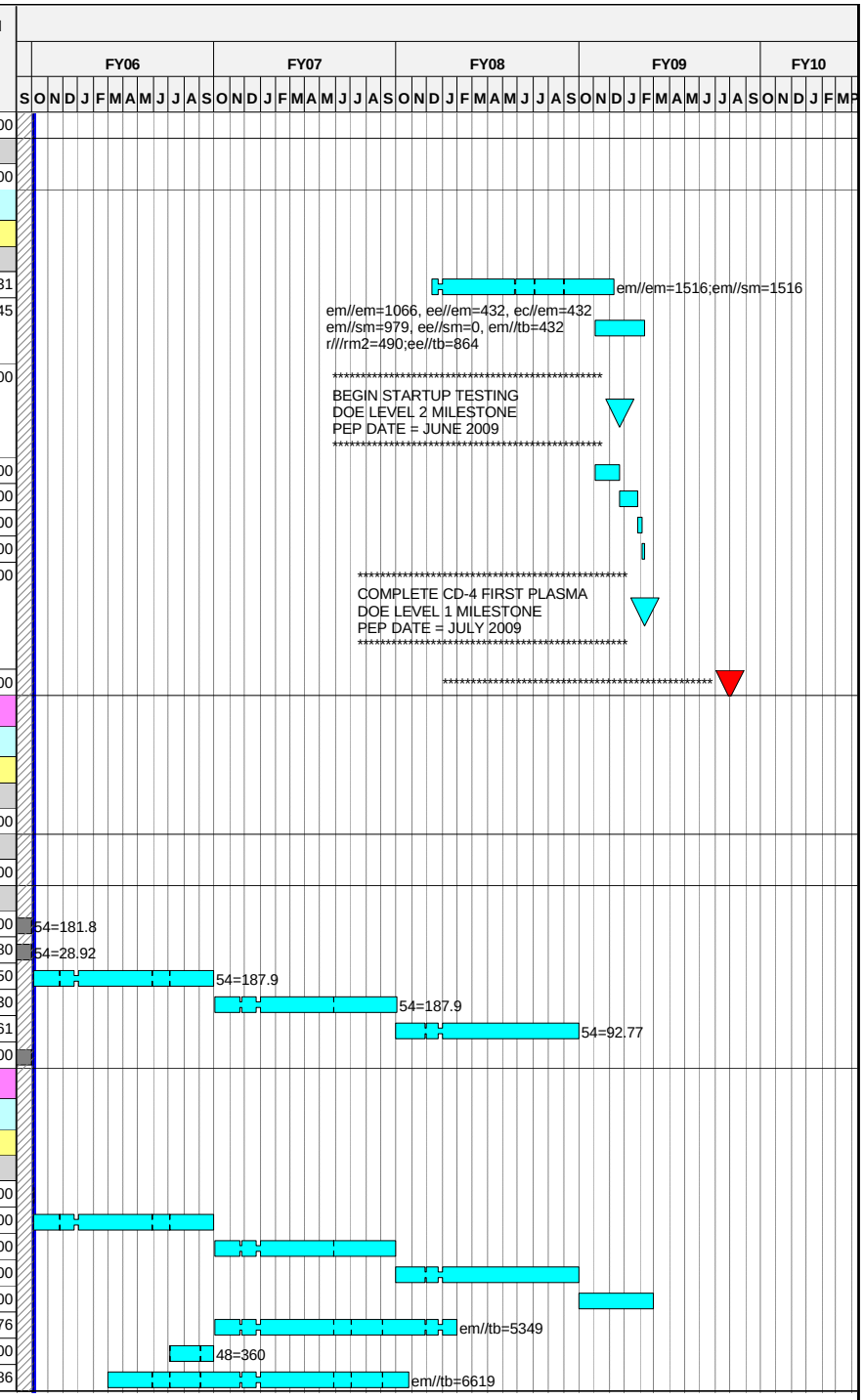
840.303	Closeout cost FY04 ECP-21	01OCT03A	256*	30SEP04A			LOE	44,000.00	44,000.00
Prior Costs									
840.301	Apr-Sept MIE Cost ORNL	01APR03A	152*	30SEP03A			100	40,980.00	40,980.00
85 - Integrated Systems Testing									
Job: 8501 - Integrated Systems Testing									
920.001	Procedure and Document Preparation	13DEC07*	250	09DEC08	123			0.00	486,475.31
920.000	Startup Personnel	03NOV08	72	10FEB09	123			0.00	711,219.45
920.004	Begin Start-up Testing	24DEC08	0		123			0.00	0.00
920.005	Punch list,Cmplt PTP's,Reconfig, Rm temp	03NOV08	37	23DEC08	123			0.00	0.00
920.010	Field Coil Testsing,FCPC test & E-Beam	24DEC08	25	27JAN09	123			0.00	0.00
920.020	Final ISTP	28JAN09	7	05FEB09	123			0.00	0.00
920.021	Operations Approval	06FEB09	3	10FEB09	123			0.00	0.00
730.9000	First Plasma		0	10FEB09	123			0.00	0.00
M-0120	CD-4 First Plasma		0	31JUL09*	0			0.00	0.00
Allocations									
PPPL Allocations									
Job: 8998 - Allocations									
FY04 Actual Cost									
99.04	PPPL Allocations FY04	01OCT03A	256*	30SEP04A			LOE	260,691.00	260,691.00
Prior Costs									
99.03	Apr-Sept MIE Cost PPPL	01APR03A	128*	30SEP03A			100	112,000.00	112,000.00
99.05	PPPL Allocations FY05	20OCT04A	251*	30SEP05A			LOE	302,697.00	302,697.00
99.05P	PPPL Allocations FY05 rebaeline re-estimate	01OCT04A	251*	30SEP05A			LOE	48,151.80	48,151.80
99.06	PPPL Allocations FY06	03OCT05*	250*	29SEP06	765			0.00	329,764.50
99.07	PPPL Allocations FY07	02OCT06*	252*	01OCT07	513			0.00	332,787.30
99.08	PPPL Allocations FY08	01OCT07*	252*	29SEP08	262			0.00	166,336.61
FY05CV-43	FY05 unrecoverable cost variance	01OCT04A	251	30SEP05A				56,000.00	56,000.00
Contingency									
Contingency									
Contingency-Project									
99.105	Contingency FY05	03OCT05*	0*	30SEP05	1,015			0.00	0.00
99.106	Contingency FY06 TBD	03OCT05*	250*	29SEP06	765			0.00	669,820.00
99.107	Contingency FY07 TBD	02OCT06*	251*	28SEP07	514			0.00	1,804,000.00
99.108	Contingency FY08	01OCT07*	253*	30SEP08	261			0.00	4,618,000.00
99.109	Contingency FY09	01OCT08*	108*	27FEB09	153			0.00	1,051,000.00
1361RISK	JOB 1361 RISK	02OCT06*	330*	31JAN08	431			0.00	448,084.76
1411RISK	JOB 1411 RISK	03JUL06*	63*	29SEP06	761			0.00	360,000.00
1451RISK	JOB 1451 RISK	03MAR06*	416*	25OCT07	493			0.00	661,098.86



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DCMA									
DCMA									
DCMAFY04	DCMA	**01OCT03A**	*256**	**30SEP04A**				***75,000.00***	75,000.00

FY06 FY07 FY08 FY09 FY10

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 N D J F M A M J J 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 N D J F M

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