

NCSX Project Meeting
August 13, 2008

Background: This is a report of the Project Meeting held Wednesday, August 13th.

The focus of this meeting was to review the proposed revised NCSX Project closeout activities and to discuss the overall closeout plans.

Meeting Minutes:

Safety Briefing – No Safety Briefing.

Project Status – Both Hutch and Don were on vacation. Ron reviewed the status with those in attendance. He noted that, based on the current spend rate, it is likely that we will not require a significant portion of the 20% contingency we set aside. PSO has requested that we identify potential additions to our scope. (**Action: Don Rej**)

Bob then discussed the status of receiving closeout notes and documentation – progress is being made, but several job managers have yet to identify/commit as to when they will provide the closeout information. Bob is contacting them individually to get commitments.

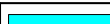



**NCSX Project Meeting
August 13, 2008**

Attachments

- **Meeting Minutes**
- **Three Week Look-Ahead Schedule – Ron Strykowski**
- **Cost Performance Report – Ron Strykowski**
- **Closeout Note Status – Bob Simmons**

Activity ID	Activity Description	Forecast Start	Forecast Finish	BASELINE FINISH	% cmplt	ETC from 8/1/08	FY08			FY09									
							AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR					
Brown																			
Job: 1803/1805- FPA Tooling/Constr-BROWN																			
Station 3-Modular Coil to VVSA Assembly																			
1803S3-4	Generate laser screen trace drawings (1/2 period	17JUL08A	08AUG08	05SEP08	55	2,460.48													
1803S3-9	Oversite, cost and schedules, reviews	31JAN08A	30SEP08	30SEP08	LOE	1,742.66													
1805S3-207	Misc assembly Cost	31JAN08A	30SEP08	30SEP08		2,471.58													
Job: 8203 - Design Integration-BROWN																			
8203FY08-4	General integration activities	01FEB08A	30SEP08	30SEP08	LOE	6,911.66													
Brooks																			
Job: 8204 - Systems Analysis-BROOKS																			
8204-FY08Z	Syst Analysis, studies & tech assurance FY08 etc	02JUN08A	30SEP08	30SEP08	LOE	20,747.27													
Chrzanowski																			
Job: 1408 - MC Winding Supplies-CHRZANOWSKI																			
1408-7	Misc tech shop support	23MAY07A	29AUG08	31JUL08	92	4,043.26													
Job: 1451 - Mod Coil Winding-CHRZANOWSKI																			
Station 1 Post VPI																			
P2-171C	Final Clamps & Warm Test (Station1) B6	02JUN08A	15AUG08	23JUL08	80	4,801.38													
P1-171C	Final Clamps & Warm Test (Station1) A6	18AUG08	12SEP08	20AUG08		24,006.88													
LOE Oversight & Supervision																			
145XSPRV-3	Winding Engineering oversight and supervision	01MAY07A	30SEP08	30SEP08	LOE	20,867.95													
145XSPRV-A	Winding Engineering oversight and supervision	01NOV07A	29AUG08	29AUG08	LOE	27,772.42													
Job: 1459 - Mod Coil Fabr.Punch List-CHRZANOWSKI																			
Punchlist Tech shop/RESA																			
PLTS-B5	Grinding -B5	01MAY08A	30SEP08	29AUG08	ETC	4,738.20													
PLTS-A6	Grinding -A6	01MAY08A	30SEP08	29AUG08	ETC	1,625.20													
PLTS-B6	Grinding -B6	01MAY08A	30SEP08	29AUG08	ETC	4,738.20													
PLTS-C6	Grinding & Drill Holes -C6	01MAY08A	30SEP08	29AUG08	ETC	7,960.18													
Punchlist- Coil Technicians																			
PLCT-A6	Insul,measure,TC,SG other punch list-A6	01OCT07A	29AUG08	29AUG08	36	10,411.40													
PLCT-B6	Insul,measure,TC,SG other punch list-B6	01OCT07A	29AUG08	29AUG08	36	10,411.40													
Cole																			
Job: 1416 - Mod Coil Type AB Fnl Dsn-COLE																			
Analysis and closeout documentation																			
1416-601	Prepare EM and structural analysis of leads	31JAN08A	18AUG08	30JUN08	80	6,644.00													
1416-650	Prepare cooling analysis of lead area	01JUL08A	29AUG08	30JUN08	20	2,416.00													
ECN Modifications																			
1416-810	Process completed ECN's Bladders	01AUG08*	29AUG08			1,510.00													
Job: 1421 - Mod Coil Interface Design-COLE																			
Inboard Interface-CC																			
1421-3155	Resolve C-C shim FDR comments	01AUG08*	18AUG08	30JUN08	80	2,355.60													

Run Date: 18AUG08 07:54

 FORECAST SCHEDULE
 x target
 Progress Bar
 Critical Activity

0808

NCSX
MIE CLOSEOUT PLAN
AUGUST 1ST STATUS

Sheet 1 of 6

Activity ID	Activity Description	Forecast Start	Forecast Finish	BASELINE FINISH	% cmplt	ETC from 8/1/08	FY08		FY09							
							AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR		
Job: 1901 - Stellarator Core Mngtt&Integr-COLE																
191 - Stellarator Core Management & Oversight																
1901-08	WBS 191 FY08	01OCT07A	29SEP08	29SEP08	LOE	10,713.45			COLE	etc =121hr	NELSON	etc =				
1901-9000	Update drawing tree	01OCT07A	29SEP08	29SEP08	LOE	12,080.00			lovett=	160						
192 - Stellarator Core Integr & Global Analysis																
1902-08	WBS 192 FY08	01OCT07A	29SEP08	29SEP08	LOE	47,900.30			COLE	etc =121 m&s =20 travel= 10	MCGINNIS	etc =182				
Dahlgren																
Job: 1501 - Coil Structures Design-DAHLGREN																
1501-533F	Integrated Stress Analysis	01OCT07A	06AUG08	30JUN08	95	16,434.88			DAHLGREN	etc =154hr	FAN=etc=40					
1501-537	FDR Prep	01AUG08	06AUG08	30JUN08		12,370.68			DAHLGREN	etc =38hr	RUSHINSKI	etc =49h				
1501-541	Coil Support Structures - FDR		06AUG08	30JUN08		0.00										
Ellis																
Job: 8205 - Dimensional Control Coordin-ELLIS																
Station 3-Modular Coil to VVSA Assembly																
METFY08R	Support FPA Station 2	01FEB08A	30SEP08	30SEP08	LOE	7,355.46			ELLIS	etc =45hr	SMITH	etc =45h				
STAT3 PREP	Station 3 preparations	30JUN08A	02SEP08	02SEP08	70	4,250.40			ELLIS	etc =80hr						
Harris																
Job: 8102 - NCSX MIE Management ORNL-HARRIS																
810.105XX	Project Management Office ORNL FY08 (LOE)	01FEB08A	29SEP08	29SEP08	LOE	73,517.11			ORNL35	etc =07\$	HILLIS	etc =70	HARRIS	etc =28		
810.105Z	Project Management Office ORNL FY09 (LOE)	01OCT08*	31MAR09	31MAR09	LOE	35,930.73			MMORRIS	etc =176						
Heitzenroeder																
Job: 8202 - Engr Mgmt & Sys Eng Sprt-HEITZENROED																
8205DC	document control & admin support	01FEB08A	31MAR09	31MAR09	LOE	18,854.12										
8205FY08.2	Engr mgt & systems engr FY08	01FEB08A	30SEP08	30SEP08	LOE	81,870.03			HEITZENROED	etc =445hr	SIMMONS					
8205FY09	Engr mgt & systems engr FY09	01OCT08*	31MAR09	31MAR09	LOE	134,313.25			REIERSEN	etc =89hr	DUDEK	etc =				
									VONHALLE	etc =89hr						
Job: 8221 -Documentation Closeout-HEITZENROEDER																
Closeout Documentation																
8221-100	Technical data collection	14JUL08A	14NOV08	31OCT08	ETC	484,517.45										
8221-251	Tech presentation/paper collection	01AUG08*	29OCT08	29SEP08		10,094.00			HAMPTON	etc =100hr	TYREL					
8221-301	Guidance to collect data	02JUN08A	29SEP08	29SEP08		25,927.44			SIMMONS	etc =300hr						
8221-305	Organizing and posting data	30SEP08	27MAR09	27MAR09		56,203.18										
8221-401	Finalizing and archiving key analyses/reports	01AUG08*	30SEP08	29SEP08		130,951.30			FREUDENBERG	etc =160hr	DAHLGRE					
8221-575	Archiving doc & files in ops center	01AUG08*	26MAR09	26MAR09		18,168.78			FAN	etc =160hr	AVASARALA	etc =				
8221-700	As-built Drawing Updates	01AUG08*	23DEC08	23DEC08		233,941.28			ZHANG	etc =160hr						

Activity ID	Activity Description	Forecast Start	Forecast Finish	BASELINE FINISH	% cmplt	ETC from 8/1/08	FY08		FY09									
							AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR				
Kalish																		
Job: 1361 - TF Fabrication-KALISH																		
TF Title III and Fabrication Oversight																		
131-033C	Title III engr,inspection, support	02JAN08A	18SEP08	18SEP08	LOE	27,850.15											KALISH etc =71hr ; 35etc =02\$K ; 41etc =00\$K ; EM/TB etc =00hr ; MEIGHAN etc =173hr ;	
TF Fabrication Contract																		
1361C-115	Fab, Test & Deliver Coil #15	01AUG08*	05AUG08	17JUL08	90	4,720.00											49etc =47 ;	
1361C-116	Fab, Test & Deliver Coil #16	27AUG08*	27AUG08	08AUG08		47,220.00											49etc =47 ;	
1361C-117	Fab, Test & Deliver Coil #17	18SEP08*	18SEP08	02SEP08		47,220.00											49etc =47 ;	
1361C-118	Fab, Test & Deliver Coil #18	03OCT08*	03OCT08	24SEP08		47,220.00											49etc =47 ;	
1351-195X	ALL TF COILS DELIVERED		03OCT08	24SEP08		0.00												
Job: 1354 - Trim Coil Design &Procurement-KALISH																		
Trim Coil **Updated estimate**																		
TRIM-170	Complete Trim Coil Detailed Drawings	25MAR08A	29AUG08	30JUN08	99	864.61											KALISH etc =14hr ; RUSHINSKI etc =10h CRUIKSHANK etc =80hr ;	
TRIM-200	Assy drawings & parts list	01APR08A	29AUG08	30JUN08	99	1,115.75											KALISH etc =04hr ; RUSHINSKI etc =10h CRUIKSHANK etc =80hr ;	
Neilson																		
Job: 8222 - Manuscripts and Papers - NEILSON																		
Prepare Closeout report																		
8222-900	Manuscripts, journal & papers (40 papers@40hrs)	02SEP08*	31MAR09	31MAR09		299,600.15												
Perry																		
Job: 8220 - Equip Save & Facility Restora-PERRY																		
Safe and store NCSX hardware assets																		
8220-201	Coordination and oversight	01JUL08A	23DEC08	23DEC08	LOE	49,799.71											PERRY etc =382h	
8220-205	NCTC floor penetrations & PLT water hdr removal	30JUN08A	12AUG08	12AUG08	30	39,373.98											41etc =21\$K ; EM/TB etc =382hr ;	
8220-209	Secure platform parts from CAS Bldg to NCTC	13AUG08	26AUG08	26AUG08		4,163.16											41etc =00\$K ; EM/TB etc =48hr ;	
8220-223	Items f/TFTR bsmnt (incl spare MC cond) to NCTCB	01AUG08*	14AUG08	14AUG08		13,831.24											41etc =00\$K ; EM/TB etc =172hr ;	
8220-227	Portable AC units to Dsite crib	27AUG08	03SEP08	03SEP08		631.76											EM/TB etc =08hr ;	
8220-231	Drawing closeouts and field follow-up	01OCT08*	23DEC08	23DEC08		27,614.00											EM/TB etc =08hr ;	
8220-235	Large and Small shield block to Dsite pad	02SEP08*	15SEP08	15SEP08		2,527.04											EM/TB etc =32hr ;	
8220-239	Machine mock-up to NCTC	13AUG08	19AUG08	19AUG08		631.76											EM/TB etc =08hr ;	
8220-243	Welding machines to RESA	01OCT08*	07OCT08	07OCT08		668.56											EM/TB etc =08hr ;	
8220-247	Tools to Csite crib	01OCT08*	14OCT08	14OCT08		2,674.24											EM/TB etc =32hr ;	
8220-251	Measuring Equipment to MU Shop	01OCT08*	07OCT08	07OCT08		1,337.12											EM/TB etc =16hr ;	
8220-255	Inventory parts,material, tools to new location	01OCT08*	28OCT08	28OCT08		6,685.60											EM/TB etc =80hr ;	
8220-409	Crates,cabinets,parts shelves f/TFTRTC to NCTCB	23JUL08A	14OCT08	14OCT08	5	9,406.87											EM/TB etc =124hr ;	
8220-415	Coil winding station to NCTC	13AUG08	26AUG08	26AUG08		5,054.08											EM/TB etc =64hr ;	
8220-419	MC bolts (incl crate) to NCTCB	23JUL08A	14OCT08	15SEP08	5	2,084.11											41etc =00\$K ; EM/TB etc =20hr ;	
8220-427	Assemble 4 remaining MC 3 packs	03SEP08	07OCT08	08SEP08		25,564.80											EM/TB etc =320hr ;	
8220-431	Transport MC 3 packs (6) to NCTC	08OCT08	21OCT08	22SEP08		5,609.68											EM/TB etc =64hr ; 41etc =00\$K	
8220-501	Autoclave- Safe all AC power	01AUG08*	07AUG08	05AUG08		3,762.80											LANGELLA etc =24hr ; EM/TB etc =08h	
8220-505	Autoclave-Removal and store Dsite pad & NCTCB	01OCT08*	23DEC08	23DEC08		154,843.44											LANGELLA etc =40	
8220-901	VV Diagnostic parts incl fab crates to NCTCB	09SEP08*	15SEP08	15SEP08		1,669.86											41etc =0.2\$K ; EM/TB etc =18hr ;	
8220-903	Move tool crib from C-site back to D-Site	09SEP08*	15SEP08	15SEP08		9,476.40											EM/TB etc =120hr ;	
8220-605	VV Spool piece crates to NCTCB	01AUG08*	04AUG08	02JUL08		473.82											EM/TB etc = 6	
8220-423	VVSA's (incl port extension crates) to NCTC	13AUG08	26AUG08	26AUG08		7,176.24											41etc =01\$K ; EM/TB etc =72hr ;	
8220-609	Yellow wedge stands to NCTC	01OCT08*	02OCT08	02OCT08		334.28											EM/TB etc = 4	
8220-613	Wedge cover plates to NCTC	01OCT08*	02OCT08	02OCT08		334.28											EM/TB etc = 4	
8220-617	5 ton lift beam to RESA	01OCT08*	02OCT08	02OCT08		334.28											EM/TB etc = 4	
8220-621	14 ton lift beam to RESA	01OCT08*	02OCT08	02OCT08		167.14											EM/TB etc = 2	
8220-625	Remove coil winding rooms & dispose	02JUN08A	02SEP08	01OCT08	60	27,686.40											EM/TB etc = 480 Langella etc = 241	
8220-633	Equipment in MU machine shop-Electrical to RESA	02SEP08*	29SEP08	29SEP08		11,536.00											EM/TB etc = 80Langella etc = 40	

Activity ID	Activity Description	Forecast Start	Forecast Finish	BASELINE FINISH	% cmplt	ETC from 8/1/08	FY08		FY09						
							AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	
8220-641	Equipment in MU machine shop-Mechanical to	02SEP08*	15SEP08	15SEP08		12,635.20			EM/TB		etc = 160				
8220-653	Cryo pump skid- Mechanical to NCTCB	01AUG08*	26AUG08	16JUL08		3,790.56			EM/TB		etc = 48				
8220-657	Cryostat-disposal	27AUG08	10SEP08	16JUL08		3,790.56			EM/TB		etc = 48				
8220-661	Interlocked cryo room-leave in place	01AUG08*	01AUG08	02JUN08		0.00									
8220-665	Spherical bearings (Dahlgren) to NCTCB	01AUG08*	04AUG08	03JUL08		78.97			EM/TB		etc = 1				
8220-669	Prototype castings to NCTC	13AUG08	14AUG08	14AUG08		631.76			EM/TB		etc = 8				
8220-673	Prototype VV cross sections-Scrap	22SEP08*	23SEP08	03JUL08		157.94			EM/TB		etc = 2				
8220-677	TF coil fabrication fixtures to NCTC-VPI fixture	13AUG08	14AUG08	14AUG08		315.88			EM/TB		etc = 4				
8220-681	TF coil fabrication fixtures to NCTC-Mandrel	13AUG08	14AUG08	14AUG08		315.88			EM/TB		etc = 4				
8220-685	TF coil fabrication fixtures to NCTC-Misc fixtur	13AUG08	14AUG08	14AUG08		315.88			EM/TB		etc = 4				

Rej

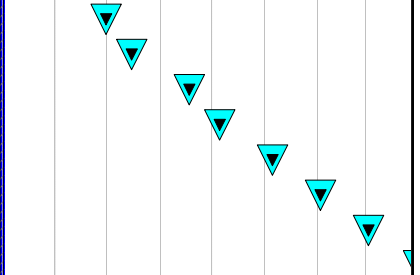
Job: 8101 - Project Management &Control-REJ

Activity ID	Activity Description	Forecast Start	Forecast Finish	BASELINE FINISH	LOE	ETC	FY08		FY09						
							AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	
810.900	Project Management Office PPPL FY08 (LOE)	01OCT07A	30SEP08	30SEP08	LOE	100,467.45									
810.9005A	Project Management Office PPPL fy08 etc	02JUN08A	30SEP08	30SEP08	LOE	62,050.00									
810.901	Project Management Office PPPL FY09 (SA LOE)	01OCT08*	31MAR09	31MAR09	LOE	290,785.02									

NEILSON etc=414hr ; STRYKOWSKY e
B///CB etc=680hr ; 35etc=12\$k ;
41etc=03\$k ; DEPUTYPC etc=95hr
DON REJ1 etc=126\$k ;

Job: 8221 -Documentation Closeout-HEITZENROEDER

Prepare Closeout report						
Activity ID	Activity Description	Forecast Start	Forecast Finish	BASELINE FINISH	ETC	Notes
8221-614	Chapter Draftes complete		30SEP08*		70	0.00
8221-616	Chapter Draft reviews complete		15OCT08*			0.00
8221-618	Chapters Complete		17NOV08*			0.00
8221-636	Executive summary complete		05DEC08*			0.00
8221-639	Draft Report complete		05JAN09*			0.00
8221-642	Report Reviews Complete		02FEB09*			0.00
8221-646	DOE Concurrence		02MAR09*			0.00
8221-649	Final Report Issued		31MAR09*			0.00
8221-655	Submit NEPA form		31JUL08*			0.00



Strykowski

Job: 8998 - Allocations-STRYKOWSKY

99.08	PPPL Allocations FY08	LOE	01OCT07A	29SEP08	29SEP08	LOE	69,686.76								
99.09C	PPPL Allocations FY09	LOE	01OCT08*	31MAR09	31MAR09	LOE	59,465.00								

54etc=88 ;
54 etc=35

Viola

Job: 1802 - FP Assy Oversight&Support-VIOLA

Oversight and Supervision						
Activity ID	Activity Description	Forecast Start	Forecast Finish	BASELINE FINISH	ETC	Notes
1802ORN02	ORNL Title III field period assy station 2/3	02JUN08A	30SEP08	30SEP08	LOE	6,846.84
R1802-003	Metrology Engr Super FY08	01OCT07A	30SEP08	30SEP08	LOE	22,295.02
R1802-007	FPA Management FY08	01OCT07A	30SEP08	30SEP08	LOE	42,369.47
R1802-010	Drexel co-op student support	02JUN08A	30SEP08	30JUN08	ETC	4,729.20
R1802-015	HP Coverage in the TFTR TC LOE FY08	01OCT07A	30SEP08	30SEP08	LOE	26,266.02
R1802-016	HP Coverage in the TFTR TC LOE FY09	01OCT08*	23DEC08	23DEC08	LOE	36,276.45
1802MISC	Misc materials,tools, GSA vehicle,rigging	01FEB08A	30SEP08	30SEP08	LOE	27,758.70

mcginnis=140
PRINISKI etc=293hr ;
VIOLA etc=558hr ;
DREXEL etc=168 revised EAC = 56
SH//TB etc=440hr ;
SH//TB etc=629hr
41etc=45\$k ;

Station 3 procedures,JHA,ACC,Training,Prep

R1802-320	Update FPA cost estimate for FPA station 2&3	15SEP08	19SEP08	20OCT08		0.00
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Job: 1810 - Field Period AssyStation 1,2,3 VIOLA

General Assy Support						
Activity ID	Activity Description	Forecast Start	Forecast Finish	BASELINE FINISH	ETC	Notes
R1810-003	LOE Crane support, fixture setupfor FY08	01OCT07A	30SEP08	30SEP08	LOE	27,476.03

EM//TB etc=704hr ;

Activity ID	Activity Description	Forecast Start	Forecast Finish	BASELINE FINISH	% cmplt	ETC from 8/1/08	FY08						FY09				
							AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR			
R1810-025	Crane & Rigging inspections	01FEB08A	30SEP08	30SEP08	LOE	1,950.56											
R1810-007	LOE Field Supervision for FY08	01OCT07A	30SEP08	30SEP08	LOE	39,053.16			EDWARDS	etc =50hr ;							
R1810-2001	Misc Hardware and hardware rework (1/2 fte loe)	01FEB08A	30SEP08	30SEP08	LOE	11,703.35			EM/TB	etc =300hr ;							
S21-4.02	Perform routine metrology set-up and checks (loe)	01FEB08A	30SEP08	30SEP08	LOE	30,180.56			ZMET	etc =525 ;							
Setup																	
R1810-2034	Misc Tool and Hardware	02JUN08A	30SEP08	30SEP08	LOE	9,203.22				41etc =15\$k ;							
Pre-Measuring and fitup checks																	
Pre measurement of MCHP A2,B2,C2 flanges																	
2-2-2.99	Drill Stycast fill holes C2	01AUG08*	05AUG08	03JUL08		9,476.40			EM/TB	etc =120hr ;							
Station 2 MC subassy A1B1C1																	
Stycast shim bags & final measurements																	
2-1-8.01	Fill all wing bladders & cure	16JUL08A	08AUG08	01AUG08	70	1,137.17			EM/TB	etc =48hr ;							
2-1-11.05	Perform Electrical Megger test on each coil	11AUG08*	12AUG08	15AUG08		3,790.56			EM/TB	etc =48hr ;							
2-1-11.08	Remove from stand & measure weight of	23JUL08A	13AUG08	20AUG08	80	758.11			EM/TB	etc =48hr ;							
S21-11.07M	Complete 1st MCHP Assy (Sta 2)		13AUG08	22AUG08		0.00			EM/TB	etc =00hr ;							
Station 2 MC subassy A2B2C2																	
AB-C MC Assembly																	
2-2-7.13	Measure position of all monuments	11AUG08*	11AUG08	10JUL08		2,792.88			EM/TB	etc =00hr ; ZMET	etc =24						
2-2-7.14	Measure shim puck height	12AUG08	12AUG08	11JUL08		1,579.40			EM/TB	etc =20hr ;							
2-2-7.15	remove puck locating rings & install all nose s	13AUG08	13AUG08	14JUL08		4,738.20			EM/TB	etc =60hr ;							
2-2-7.16	"Lightly" tack weld nose flex shims	14AUG08	14AUG08	15JUL08		789.70			EM/TB	etc =10hr ;							
2-2-7.17	remove "C" coil & place it on a separate fixtur	15AUG08	15AUG08	16JUL08		3,158.80			EM/TB	etc =40hr ;							
2-2-7.18	Recheck part alignment & weld all Type-B flex s	18AUG08	18AUG08	17JUL08		5,585.76			EM/TB	etc =00hr ; ZMET	etc =48						
2-2-7.19	After welding "B" coil nose shims recheck align	19AUG08	19AUG08	18JUL08		1,861.92			EM/TB	etc =00hr ; ZMET	etc =16						
2-2-7.20	Back office assessment of part after weld	20AUG08	20AUG08	21JUL08		3,723.84			EM/TB	etc =00hr ; ZMET	etc =32						
2-2-7.21	Measure "C" fiducials	20AUG08	20AUG08	21JUL08		1,861.92			EM/TB	etc =00hr ; ZMET	etc =16						
2-2-7.22	Weld all Type-C (A-flange) flex shims plasma sid	21AUG08	21AUG08	22JUL08		3,158.80			EM/TB	etc =40hr ;							
2-2-7.23	After welding determine metrology acceptance	22AUG08	22AUG08	23JUL08		1,861.92			EM/TB	etc =00hr ; ZMET	etc =16						
2-2-7.24	Back office assessment	25AUG08	25AUG08	24JUL08		3,723.84			EM/TB	etc =00hr ; ZMET	etc =32						
2-2-7.25	Remove shims for alignment mating coil	26AUG08	25AUG08	24JUL08		0.00			EM/TB	etc =00hr ;							
2-2-7.07	Place unfilled shim bags in wing areas	26AUG08	26AUG08	25JUL08		1,579.40			EM/TB	etc =20hr ;							
2-2-7.26	Lower mating "C" coil into position.	27AUG08	27AUG08	28JUL08		3,158.80			EM/TB	etc =40hr ;							
2-2-7.261	alignment "C" coil tooling balls	28AUG08	28AUG08	29JUL08		1,861.92			EM/TB	etc =00hr ; ZMET	etc =16						
2-2-7.27	position coil accurately in x, y, & z directio	29AUG08	29AUG08	30JUL08		1,579.40			EM/TB	etc =20hr ;							
2-2-7.28	Install shims;studs,, & "wobble"	02SEP08	02SEP08	31JUL08		2,369.10			EM/TB	etc =30hr ;							
2-2-7.29	Torque50% of final value.	03SEP08	03SEP08	01AUG08		789.70			EM/TB	etc =10hr ;							
2-2-7.30	Measure position of all monuments	04SEP08	04SEP08	04AUG08		2,792.88			ZMET	etc =24 ;							
2-2-7.31	Adjust shims locally. Re-torque all studs50%.	05SEP08	05SEP08	05AUG08		3,158.80			EM/TB	etc =40hr ;							
2-2-7.32	Install bushing. Replace nut & tighten back50%	08SEP08	08SEP08	06AUG08		4,738.20			EM/TB	etc =60hr ;							
2-2-7.33	After super bolt tightening, measure position	09SEP08	09SEP08	07AUG08		2,792.88			EM/TB	etc =00hr ; ZMET	etc =24						
2-2-7.34	Tighten all bolts to final torque.	10SEP08	10SEP08	08AUG08		1,579.40			EM/TB	etc =20hr ;							
2-2-7.35	After tightening hardware, meas position of monu	11SEP08	11SEP08	11AUG08		2,792.88			ZMET	etc =24 ; EM/TB	etc =00h						
2-2-7.36	Weld B / C nose region solenoid side	12SEP08	12SEP08	12AUG08		4,738.20			EM/TB	etc =60hr ;							
2-2-7.37	Measure positions of all monuments	15SEP08	15SEP08	13AUG08		1,861.92			EM/TB	etc =00hr ; ZMET	etc =16						
2-2-7.38	Back office of above results & INSTALL wing supp	16SEP08	16SEP08	14AUG08		3,723.84			EM/TB	etc =00hr ; ZMET	etc =32						
2-2-7.39	Fill all lose bushings with Stycast 2850FT	17SEP08	17SEP08	15AUG08		3,158.80			EM/TB	etc =40hr ;							
Stycast shim bags & final measurements																	
2-2-8.01	Fill all wing bladders & cure	18SEP08	19SEP08	19AUG08		3,158.80			EM/TB	etc =40hr ;							
2-2-8.02	Inject stycast in all shim spaces	22SEP08	23SEP08	21AUG08		3,158.80			EM/TB	etc =40hr ;							
2-2-10.0	Complete local service & interface details	24SEP08	23SEP08	21AUG08		0.00			EM/TB	etc =00hr ;							
2-2-11.01	Measure tooling balls on all coils.	24SEP08	25SEP08	25AUG08		3,723.84			EM/TB	etc =00hr ; ZMET	etc =32						
2-2-11.02	Install or identify three primary fiducials	26SEP08	29SEP08	27AUG08		3,723.84			EM/TB	etc =00hr ; ZMET	etc =32						
2-2-11.03	Scan "B" flange Type-C coil & interfacing base	30SEP08	02OCT08	02SEP08		5,804.32			EM/TB	etc =00hr ; ZMET	etc =4						
2-2-11.04	Measure bolt length on all tension fasteners	03OCT08	03OCT08	03SEP08		1,671.40			EM/TB	etc =20hr ;							
2-2-11.05	Perform Electrical Megger test on each coil	06OCT08	07OCT08	05SEP08		3,342.80			EM/TB	etc =40hr ;							

Activity ID	Activity Description	Forecast Start	Forecast Finish	BASELINE FINISH	% cmplt	ETC from 8/1/08	FY08		FY09						
							AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	
2-2-11.06	Mark part for identification	08OCT08	07OCT08	05SEP08		0.00			EM//TB	etc =00hr ;					
2-2-11.07	Install lift support beams	08OCT08	09OCT08	09SEP08		6,685.60			EM//TB	etc =80hr ;					
2-2-11.08	Remove from stand & measure weight of	10OCT08	10OCT08	10SEP08		3,342.80			EM//TB	etc =40hr ;					
2-2-11.09	Move to holding area.	13OCT08	14OCT08	12SEP08		6,685.60			EM//TB	etc =80hr ;					
Station 3-Assemble Mod Coils and VVSA-FP#1															
Set-up and Prep															
3-1-1.01	transfer CAD models	01AUG08*	11AUG08	10JUN08		13,033.44		ZMET	etc =112 ;						
Install Laser Screen															
3-1-6.03	Turn each lasers on & measure each laser source	12AUG08*	12AUG08	10SEP08		4,129.58		EM//TB	etc =24hr ; ZMET	etc =19					
3-1-6.04	Print path on milar paper	13AUG08	12AUG08	10SEP08		0.00		EM//TB	etc =00hr ;						
3-1-6NEW	Dry-run MCHP thru laser screen path without VVSA	14AUG08	19AUG08	16SEP08		10,108.16		EM//TB	etc =128hr ;						
Install Vacuum Vessel															
3-1-7.03	Install VVSA to base support and make connection	20AUG08	20AUG08	19SEP08		1,895.28		EM//TB	etc =24hr ;						
3-1-7.04	take tooling ball readings and secure VVSA	21AUG08	22AUG08	23SEP08		3,790.56		EM//TB	etc =48hr ;						
3-1-7.05	Scan VV surface and compare data	25AUG08	27AUG08	26SEP08		6,702.91		ZMET	etc =58 ; EM//TB	etc =00h					
Trial fit MCHP over VV															
3-1-8.01	Install any bumper protection components on the	28AUG08	28AUG08	29SEP08		947.64		EM//TB	etc =12hr ;						
3-1-8.03	Install MCHP lift fixture, disengage leveler	29AUG08	02SEP08	01OCT08		3,790.56		EM//TB	etc =48hr ;						
3-1-8.05	Move right MCHP over the VV	03SEP08	05SEP08	06OCT08		18,074.59		EM//TB	etc =144hr ; ZMET	etc =58					
3-1-8.05M	MCHP test fit over VVSA Complete		05SEP08	06OCT08		0.00									
3-1-6.05	Disengage the right MCHP & position on floor	08SEP08	08SEP08	07OCT08		1,895.28		EM//TB	etc =24hr ;						
Contingency-Project															
CC	Closeout contingency @ 20%	01AUG08*	31MAR09	31MAR09		1,172,000.00									

	A	B	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	NCSX Closeout Scope																
2	Cost Performance Through July 2008																
3	WBS	Job	Job Title	Job Manager	BCWS	BCWP	ACWP	SPI	CPI	BUDGET (ETC (\$K) from 6/1/08)	ETC (or BCWR)	EAC (=ACWP +(ETC or BCWR)	over / (under)	June Costs (\$K)	July Costs (\$K)	Remaining Budget (\$K)	
4	Variance Analysis																
5	12 - Vac Vsl Sys	1204	VV System	Viola	-	-	4	-	-	0	-	4	4.2	4	-	(4)	
6	13 - Conventional Coils	1352	PF Coil Procurements	Chrzanowski	93	93	98	1.00	0.95	93	-	98	4.6	0	98	(5)	
7		1354	Trim Coil Design & Procurement	Kalish	24	22	22	0.92	0.99	24	2	24	0.2	22	1	2	
8		1361	TF Coil Fabrication	Kalish/Meigha	87	71	86	0.82	0.83	245	174	260	15.0	41	45	159	
9	14 - Modular Coils	1408	Modular Coil Winding Supplies	Chrzanowski	21	11	7	0.52	1.45	21	10	18	(3.3)	1	7	13	
10		1416	Modular Coil Type A&B Design	Cole	37	27	6	0.72	4.46	37	11	17	(20.8)	6	0.4	31	
11		1421	Modular Coil Interface Design	Cole	50	47	36	0.95	1.34	50	2	38	(11.9)	(7)	43	14	
12		1429	Mod Coil Interface R&D	Gettelfinger?	-	0	1	0.00	0.00	0	-	1	1.2	1	-	(1)	
13		1431	Modular Coil Interface Hardware	Dudek	97	97	92	1.00	1.05	97	-	92	(4.9)	92	-	5	
14		1451	Modular Coil Winding Operations	Chrzanowski	210	185	178	0.88	1.04	280	95	274	(6.3)	100	79	102	
15		1459	Modular Coil Fabrication Punch List Items	Chrzanowski	45	28	30	0.61	0.91	68	40	70	2.6	17	14	37	
16	15 - Coil Support Structures	1501	Coil Structures Design	Dahlgren	74	45	152	0.61	0.30	74	29	181	107.3	68	84	(78)	Re-iterated design based on Trim Coil design & Cryostat Concep. Fault modes & structural models developed which were not planned.
17	16 - Coil Services	1601	LN2 Distribution System	Goranson	30	30	61	1.00	0.50	30	-	61	30.6	24	36	(31)	
18		1701	Cryostat	Raftopoulos	-	0	16	-	0.00	0	-	16	16.2	16	-	(16)	
19	17 - Cryost&Base Sprt Struct	1702	Base Support Structure Design	Dahlgren	12	12	19	1.00	0.63	12	-	19	7.0	38	(19)	(7)	
20	18 - Field Period Assembly	1802	FPA Oversight & Support	Viola	163	189	113	1.16	1.68	355	167	279	(76.2)	68	45	243	
21		1803/05	FPA Tooling Design & Constructability and Procurements	Brown	99	107	144	1.08	0.75	114	7	151	36.5	111	33	(30)	
22		1806	FPA Specifications & Drawings	Cole	6	6	15	1.00	0.41	6	-	15	8.5	8	6	(9)	
23		1810	FPA Operations - Stations 1, 2 & 3	Viola	473	493	580	1.04	0.85	812	319	899	86.5	353	227	232	
24	19 - Stell Core Mgmt&Integr	1901	Stellarator Core Mgmt & Integr	Cole	67	57	58	0.85	0.99	127	71	128	0.8	6	52	70	
25	3 - Diagnostic Systems	3101	Magnetic Diagnostic Systems	Stratton	28	28	41	0.99	0.68	28	-	41	13.1	32	9	(13)	
26		3901	Diagnostics System Integration	Stratton	-	0	8	0.00	0.00	0	-	8	7.7	2	6	(8)	
27	4- Power Sys	4301	DC Systems	Raki	-	0	7	0.00	0.00	0	-	7	7.0	0	7	(7)	
28		4401	Control & Protection	Raki	-	0	4	0.00	0.00	0	-	4	4.1	0	4	(4)	
29	5- I&C	5801	Central I&C Integration	Reiersen	-	0	2	0.00	0.00	0	-	2	2.2	2	-	(2)	
30	6 - Facility Systems	6201	Cryogenic systems	Raftopoulos	-	0	44	0.00	0.00	0	-	44	43.7	32	12	(44)	
31	7 - Test Cell Preparation and Machine Assy	7401	TC Prep 7 Mach Assy Planning	Perry	-	0	3	0.00	0.00	0	-	3	2.7	3	0	(3)	
32	81 - Project Mgmt & Integr	8101	Project Management @ PPPL	Rej	173	179	171	1.04	1.05	633	454	624	(8.9)	93	77	463	
33		8102	Project Management @ ORNL	Harris	52	27	21	0.53	1.30	137	109	130	(6.2)	9	12	116	
34		8998	PPPL Direct Allocations	Strykowski	73	73	55	1.00	1.31	202	129	185	(17.3)	26	29	146	
35	82 - Project Engineering	8202	Engineering Management & Systems Engineering	Heitzenroeder	97	128	70	1.32	1.82	363	235	306	(57.4)	41	30	293	
36		8203	Design Integration	Brown	7	7	26	1.00	0.27	14	7	33	18.8	19	7	(12)	
37		8204	Systems Analysis & Techn Assurance	Brooks	21	21	38	1.00	0.56	42	21	59	16.5	29	9	4	ACWP adjusted for charging error
38		8205	Dimensional Control Coordination	Ellis	19	22	15	1.15	1.46	34	12	27	(7.0)	9	6	19	
39		8210	Proj Rebaseline Estimate	Reiersen	-	0	8	0.00	0.00	0	-	8	7.7	1	7	(8)	
40		8220	Equipment Disposition & Facility Restoration	Perry	89	93	28	1.04	3.36	530	438	465	(65.0)	4	24	503	
41		8221	Documentation for Closeout	Heitzenroeder	307	174	85	0.57	2.04	1,134	960	1,045	(88.4)	36	49	1,048	
42		8222	Prepare manuscripts for peer-reviewed archi	Neilson	-	0	2	0.27	0.27	300	300	301	1.1	2	2	299	
43		8501	Integrated Test Documentnation	Gentile	-	0	1	0.00	0.00	0	-	1	0.7	1	0	(1)	
45			Subtotal =		2,453	2,272	2,345	0.93	0.97	5,861	3,589	5,934	72.8	1,306	1,039	3,517	
46			Contingency =							1,172							
47			Total =							7,033							

Closeout Note Status

WBS/Job/Title/Closeout Note Link			Job Manager	Status at Closeout	Status of Closeout Notes	Date Promised
WBS 12 - Vacuum Vessel						
	1201 - Vacuum Vessel Preliminary Design	Goranson	Completed (Oct 2003)			
	1202 - Vacuum Vessel R&D	Goranson	Completed (Sept 2005)			
	1203 - Vacuum Vessel Final Design	Goranson	Completed (Aug 2006)			
	1204 - Vacuum Vessel System Procurements (Non-VVSA)	Dudek	In Process at Time of Cancellation			9/30
	1206 - Vacuum Vessel Field Weld Joint	Goranson	Completed (Sept 2005)			
	1250 - Vacuum Vessel Fabrication	Viola	Completed (Sept 2006)			
	1260 - Neutral Beam Transition Duct	Cole	In Process at Time of Cancellation			
	1270 - Heater Control System	Goranson	In Process at Time of Cancellation		Done	
WBS 13 - Conventional Coils						
	TF Coils					
	1301 - TF Coil Design	Kalish	Completed (April 2006)			
	1350 - TF Coil Fabrication Preparations	Chrzanowski	Cancelled when Decision Made for Industry to Fabricate (Mar 2006)			
	1351 - TF Coil Fabrication Supplies	Kalish	Completed (Oct 2006)			
	1361 - TF Coil Fabrication	Kalish/Meighan	Will Complete as Part of Closeout			10/15
	PF Coils					
	1302 - PF Coil Design	Kalish	Completed (May 2007)			
	1352 - PF Coil Fabrication	Chrzanowski	In Process at Time of Cancellation			9/24
	Coil Support Structures					
	1353 - CS Structures Design	Dahlgren	Procurement cancelled when Decision Made to Use NSTX PF1a (Aug 2006)			8/29
	Trim Coils					
	1354 - Trim Coil Design & Procurement	Kalish	In Process at Time of Cancellation			9/15
	Conventional Coil I&C					
	1355 - Conventional I&C Design & Procurement	Cole	In Process at Time of Cancellation			
WBS 14 - Modular Coils						
	1401 - Modular Coil Preliminary Design	Williamson	Completed (Sept 2005)			
	1402 - Modular Coil Analyses	Williamson	Completed (Sept 2005)			
	1403 - Modular Coil Final Design	Williamson	Completed (April 2006)			
	1404 - MCWF R&D & First Production Casting	Chrzanowski	Completed (Sept 2005)			
	1405 - Modular Coil Winding R&D Preparations	Chrzanowski	Completed (Sept 2005)			
	1406 - Modular Coil Winding R&D	Chrzanowski	Completed (Mar 2006)			
	1407 - Modular Coil Winding Facility	Chrzanowski	Completed (Mar 2006)			

Closeout Note Status

WBS/Job/Title/Closeout Note Link	Job Manager	Status at Closeout	Status of Closeout Notes	Date Promised
1408/1451/1459 - Modular Coil Manufacturing Job 1408 - Modular Coil Winding Facility Job 1451 - Modular Coil Winding Operations Job 1459 - Modular Coil Fab Punch List Items	Chrzanowski	Will Complete as Part of Closeout	Done	
1409 - Coil Test Stand	Gettelfinger	Completed (July 2006)		
1410 - Modular Coil Twisted Racetrack Fabrication	Chrzanowski	Completed (Mar 2006)		
1411 - MCWF Fabrication	Heitzenroeder	Completed (June 2007)		
1412 - Complete Winding Facilities	Chrzanowski	Completed (Mar 2006)		
1413 - MCWF Fracture Analyses	Williamson	Completed (Mar 2006)		
1414 - Coil Testing	Gettelfinger	Completed (July 2006)		
1416 - Modular Coil Type A/B Design	Cole	In Process at Time of Cancellation		
1419 - Winding Facilities Modifications	Chrzanowski	Completed (Jan 2007)		
1421 - Modular Coil Interface Design @ ORNL 1421 - Modular Coil Interface Design @ ORNL 1421 - Modular Coil Analysis Files 1421 - Modular Coil Analysis Files 1421 - Modular Coil Testing	Cole Freudenberg Williamson Fogarty	In Process at Time of Cancellation		
1429 - Modular Coil Interface R&D @ PPPL	Dudek	In Process at Time of Cancellation		9/30
1431 - Modular Coil Interface Hardware	Dudek	In Process at Time of Cancellation		9/30
1460 - Modular Coil Third Winding Fixture	Chrzanowski	Cancelled when Project cancelled		
WBS 15 Coil Support Structures				
1501 - Coil Support Structures	Dahlgren	Will Complete as Part of Closeout		8/29
1550 - Coil Support Structures Procurements	Chrzanowski	Cancelled when Project cancelled		
WBS 16 - Coil Services				
1601-161 - LN2 Distribution Systems	Goranson	In Process at Time of Cancellation	Done	
1601-162 - Coil Electrical Leads	Goranson	In Process at Time of Cancellation	Done	
1601-163 - Coil Protection System Interfaces	Harris	In Process at Time of Cancellation		8/20
WBS 17 - Cryostat & Base Support Structure				
Cryostat				
1701 - Cryostat Design	Raftopoulos	In Process at Time of Cancellation		
1751 - Cryostat Procurements	Raftopoulos	Cancelled when Project cancelled		
Base Support Structure				
1702 - Base Support Structure Design	Dahlgren	In Process at Time of Cancellation		8/29
1752 - Base Support Structure Procurements	Dahlgren	Cancelled when Project cancelled		

Closeout Note Status

WBS/Job/Title/Closeout Note Link	Job Manager	Status at Closeout	Status of Closeout Notes	Date Promised
WBS 18 - Field Period Assembly				
1801 - FPA (ORNL)	Cole	Closed (Sept 2006)		
1802 - FP Assembly Oversight & Support	Viola	In Process at Time of Cancellation		9/30
1803 - FP Assembly Tooling/Constructibility	Brown	In Process at Time of Cancellation		10/15
1804 - Metrology Hardware	Raftopoulos	In Process at Time of Cancellation		
1805 - FP Assembly Hardware & Fixture Procurements	Dudek	In Process at Time of Cancellation		9/30
1806 - FP Assembly Specs & Drawings	Cole	In Process at Time of Cancellation		
1810 - FPA Operations - Stations 1, 2, 3	Viola	In Process at Time of Cancellation		9/30
1815 - PPA Operations - Station 5	Viola	In Process at Time of Cancellation		9/30
WBS 19 - Stellarator Core Management & Integration				
1901 - 191 - Stellarator Core Management & Oversight	Cole	In Process at Time of Cancellation		
1901 - 192 - Stellarator Core Integration & Analysis	Cole	In Process at Time of Cancellation		
1901- 193 - Risk Mitigation Activities	Cole	In Process at Time of Cancellation		
WBS 2 - Auxiliary/Ancillary Systems				
2101 - Fueling Systems	Blanchard	In Process at Time of Cancellation	Done	
2201 - Torus Vacuum pumping Systems	Blanchard	In Process at Time of Cancellation	Done	
WBS 3 - Diagnostic Systems				
3101 - Magnetic Diagnostic Systems		In Process at Time of Cancellation		
3101 - Design	Stratton			
3101 Vacuum Vessel Instrumentation Installation	Tchilinguirian		Done	
3601 - Edge & Divertor Diagnostics Systems	Stratton	In Process at Time of Cancellation		
3801 - Electron Beam Mapping Systems	Stratton/Harris	In Process at Time of Cancellation		
3901 - Diagnostic Systems Integration	Stratton	In Process at Time of Cancellation		
WBS 4 - Electrical Power Systems				
4101 - AC Power Systems	Ramakrishnan	In Process at Time of Cancellation		
4301 - DC Power Systems	Ramakrishnan	In Process at Time of Cancellation		
4401 - Control & Protection Systems	Ramakrishnan	In Process at Time of Cancellation		
4501 - Power Systems Design & Integration	Ramakrishnan	In Process at Time of Cancellation		
WBS 5 - Central Controls & Computing				
5101 - Network & Fiber Optic Infrastructure Systems	Sichta	In Process at Time of Cancellation	Done	
5201 - Central Instrumentation & Control	Sichta	In Process at Time of Cancellation	Done	
5301 - Data Acquisition & Facility Computing Systems	Sichta	In Process at Time of Cancellation	Done	
5401 - Facility Timing & Synchronization Systems	Sichta	In Process at Time of Cancellation	Done	
5501 - Real Time Plasma Control Systems	Sichta	In Process at Time of Cancellation	Done	
5601 - Central Safety Interlock Systems	Sichta	In Process at Time of Cancellation	Done	
5801 - Central I&C Management & Integration	Sichta	In Process at Time of Cancellation	Done	
WBS 6 - Facility Systems				
6101 - Cooling Water Systems	Dudek	In Process at Time of Cancellation		9/15
6201 - Cryogenic Systems	Raftopoulos	In Process at Time of Cancellation		
6301 - Utility Systems	Dudek	In Process at Time of Cancellation		9/15
6401 - Bakeout Systems	Kalish/Goranson	In Process at Time of Cancellation		

Closeout Note Status

WBS/Job/Title/Closeout Note Link	Job Manager	Status at Closeout	Status of Closeout Notes	Date Promised
WBS 7 - Test Cell Prep & Machine Assembly				
7101 - Shield Wall Modifications	Perry	Cancelled - Done as GPP Project		
7301 - Platform Design & Fabrication	Perry	In Process at Time of Cancellation		9/24
7401/7451 - Machine Assembly Planning & Oversight	Perry	In Process at Time of Cancellation		9/24
7501 - Construction Support	Perry	In Process at Time of Cancellation		9/24
7503 - Machine Assembly Operations	Perry	In Process at Time of Cancellation		9/24
7601 - Machine Assembly Tooling Design/Fab	Perry	In Process at Time of Cancellation		9/24
WBS 81 - Project Management & Integration				
8101 - Project Management @ PPPL	Rej	In Process at Time of Cancellation		
8102 - Project Management @ ORNL	Harris	In Process at Time of Cancellation		
8998 - PPPL Direct Allocations	Strykowski	In Process at Time of Cancellation		
DCMA	Strykowski	Closed (Sept 2004)		
WBS 82 - Project Engineering				
8202 - Engineering Mgmt & Systems Engineering	Heitzenroeder	In Process at Time of Cancellation		
8203 - Design Integration	Brown	In Process at Time of Cancellation		10/15
8204 - Systems Analysis & Technical Assurance		In Process at Time of Cancellation		
8204 - Systems Analysis & Technical Assurance	Brooks			9/30
8204 - System Global Models	Fan			9/19
8205 - Dimensional Control Coordination	Ellis	In Process at Time of Cancellation		9/30
8210 - Rebaselining Exercise	Strykowski	In Process at Time of Cancellation	No Closeout Note, but Data	9/30
8215 - Plant Design	Perry	In Process at Time of Cancellation		9/24
8220 - Equipment Disposition/Facility Restorations	Perry	Will Complete as Part of Closeout		12/31
8221 - Documentation for Closeout	Heitzenroeder	Will Complete as Part of Closeout		12/31
8222 - Prepare Manuscripts for Peer Reviewed Papers	Neilson	Will Complete as Part of Closeout		12/31
WBS 84 - Project Physics				
8401 - Project Physics @ PPPL	Zarnstorf	Closed (Sept 2006)		
8402 - Project Physics @ ORNL	Lyon/Harris	Closed (Sept 2006)		
WBS 85 - Integrated System Testing				
8501 - Integrated Systems Testing	Gentile	In Process at Time of Cancellation		8/25