

NCSX

COST and SCHEDULE

PERFORMANCE REPORTS

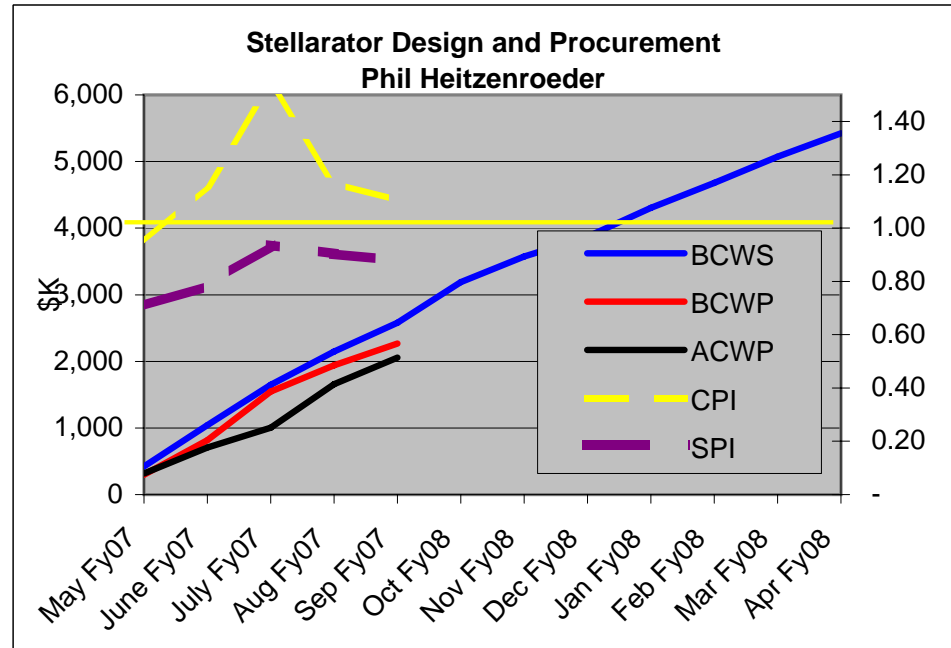
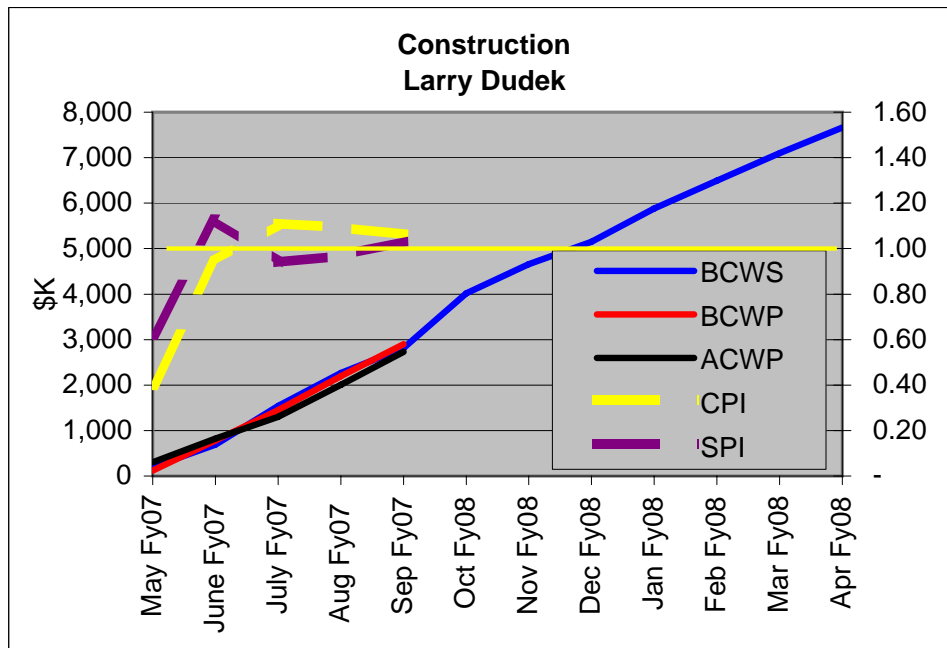
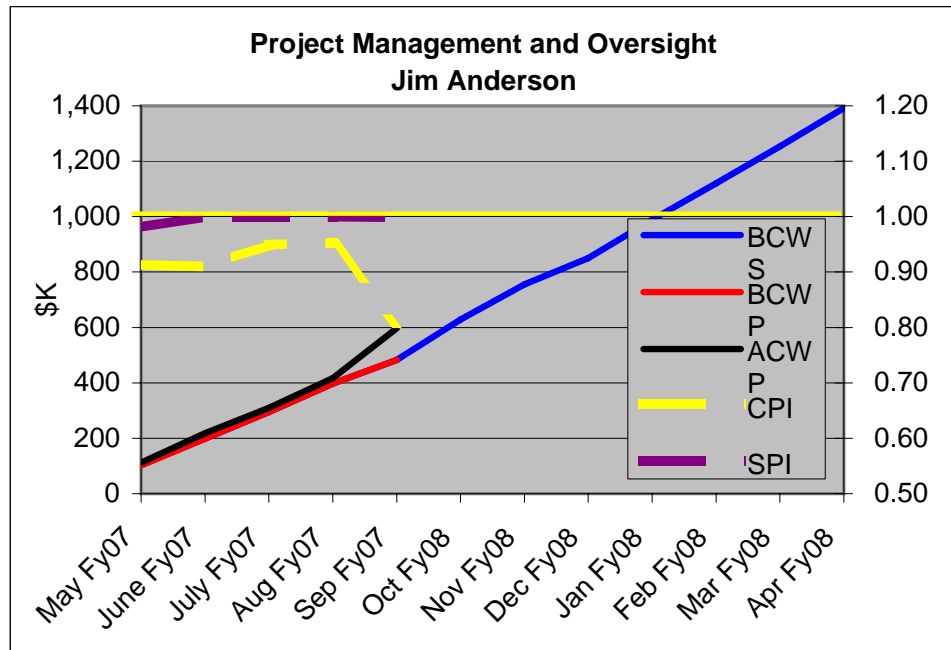
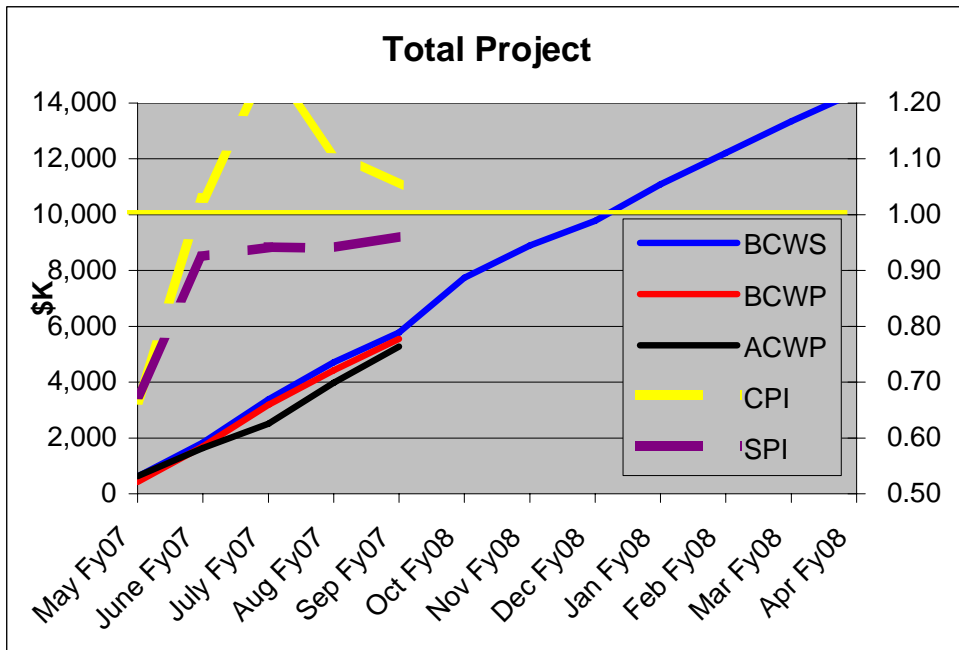
SEPTEMBER 2007

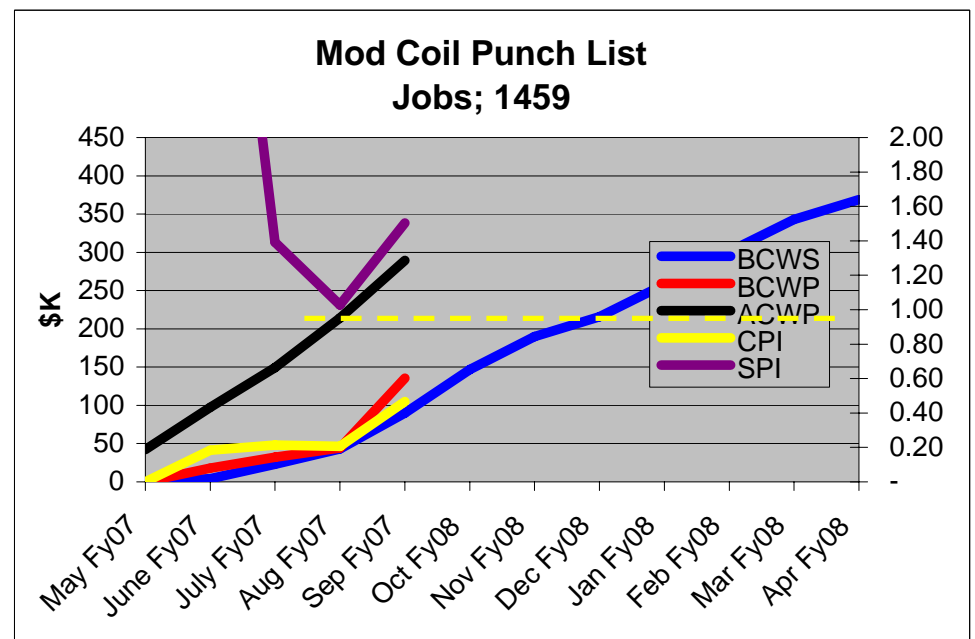
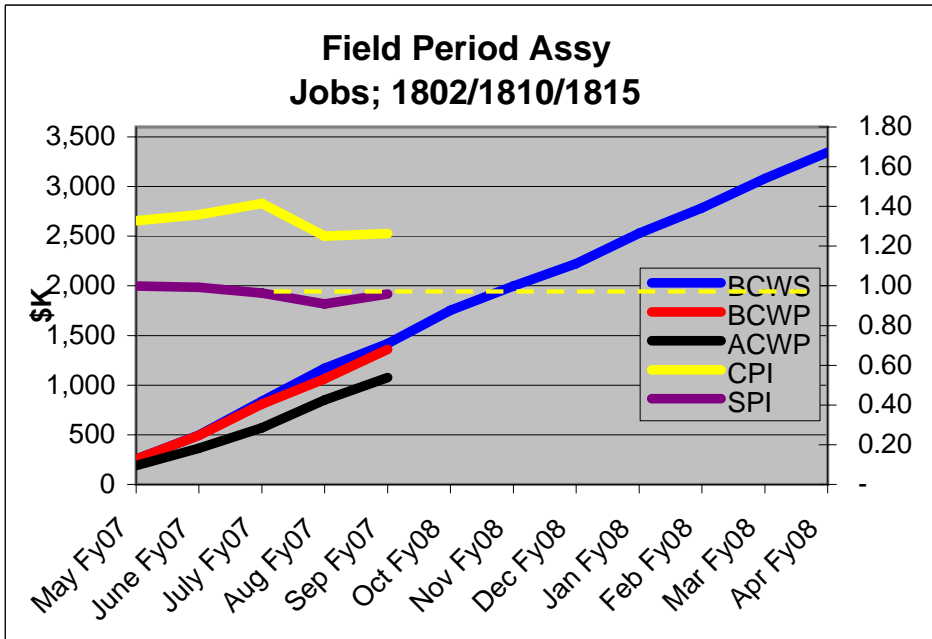
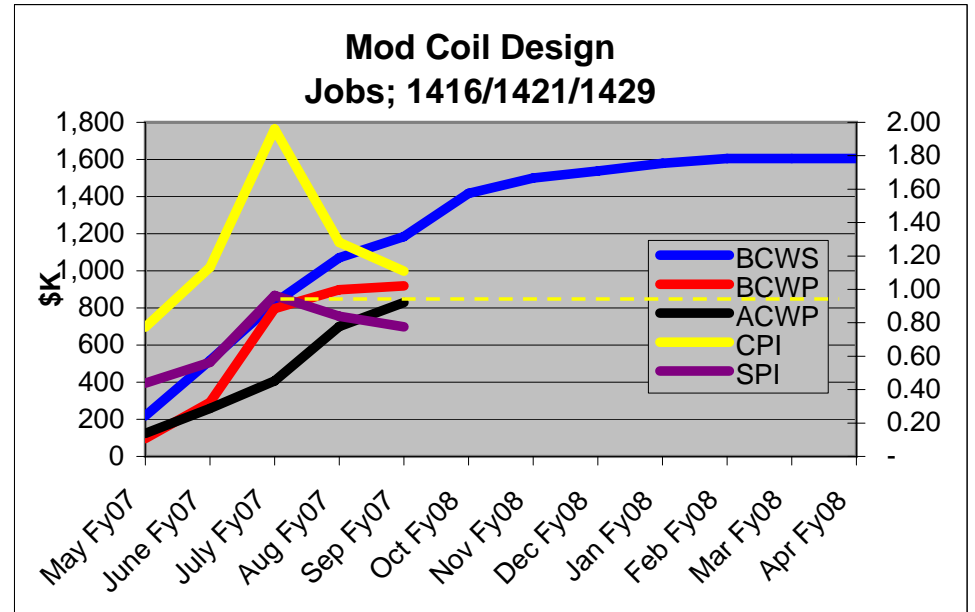
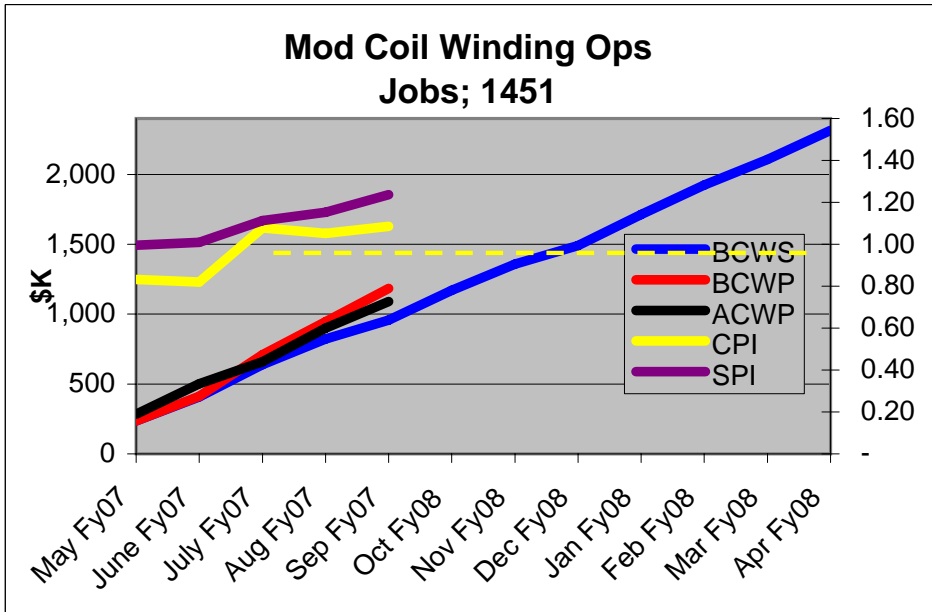
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Primary Critical Path (total float = -57 days)	10-13
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	V	W	X	
1	NCSX Cost Performance Report																					
2	Period May 1, 2007 through September 30, 2007																					
3	(Measured against unofficial proposed baseline)																					
4			CUMULATIVE								MONTHLY											
5	RLM	JOB	BCWS	BCWP	ACWP	SPI	CPI	schedule variance	cost variance	BCWS	BCWP	ACWP	SPI	CPI	sched variance	cost variance	BUDGET to COMPLETE (from May 1,2007)	EAC	C=calculated JM=Job Mgr estimate	overrun/ (under)		
6	A - Jim Anderson	Job: 8101 - Project Management &Control-ANDEF	277	278	292	1.00	0.95	1.10	-14	49	49	80	1.00	0.61	-0.02	(31)	3,843	4,039	C	196		
7		Job: 8102 - NCSX MIE Management ORNL-LYON	61	60	109	0.99	0.56	(1)	-48	11	11	17	0.98	0.62	(0)	(7)	499	899	C	400		
8		Job: 8998 - Allocations-STRYKOWSKY	145	144	196	0.99	0.73	(1)	-52	26	26	83	0.99	0.31	(0)	(57)	1,453	1,981	JM	528		
9		Total Jim Anderson	483	483	597	1.00	0.81	(0)	-115	86	86	181	1.00	0.47	(0)	(95)	5,795	6,919		1,124		
11																						
12	D - Larry Dudek	Job: 1204 - VV Sys Procurements (nonVVSA)-DU	46.0	83	140	1.81	0.59	37	-57	-	15	101	#DIV/0!	0.14	15	(86)	408	408	JM	-		
13		Job: 1250 - Vacuum Vessel Fabrication**CLOSED	(252.0)	(252)	(252)	1.00	1.00	0	0	-	0	3	#DIV/0!	0.00	0	(3)	(252)	(252)	JM	-		
14		Job: 1408 - MC Winding Supplies-CHRZANOWSKI	177.0	162	96	0.92	1.68	(15)	66	29	6	8	0.21	0.72	(23)	(2)	350	350	JM	-		
15		Job: 1431 - Mod. Coil Interface Hardware-DUDEK	363.0	310	288	0.85	1.08	(53)	22	27	53	96	1.95	0.55	26	(44)	1,039	1,039	JM	-		
16		Job: 1451 - Mod Coil Winding-CHRZANOWSKI	957.0	1,184	1,090	1.24	1.09	227	94	136	238	190	1.75	1.25	102	47	2,867	2,867	JM	-		
17		Job: 1459 - Mod Coil Fabr.Punch List-CHRZANOWSKI	90.0	135	289	1.50	0.47	45	-154	47	91	75	1.94	1.21	44	16	501	671	JM	170		
18		Job: 1802 - FP Assy Oversight&Support-VIOLA	253.0	253	341	1.00	0.74	(0)	-89	43	43	57	0.99	0.75	(0)	(14)	1,989	1,989	JM	-		
19		Job: 1803/1805- FPA Tooling/Constr-BROWN/DUDEK	130.0	68	141	0.53	0.48	(62)	-73	23	4	13	0.18	0.32	(19)	(9)	522	522	JM	-		
20		Job:1810-Field Period Assy -Station 1 2 3 VIOLA	1,164.1	1,107	734	0.95	1.51	(58)	373	204	252	167	1.24	1.51	48	85	5,745	5,745	JM	-		
21		Job: 1815 - Field Period Assy	-	-	-	-	-	-	0	-	-	-	-	-	-	-	1,334	1,334	C	-		
22		Job: 2101 - Fueling Systems-BLANCHARD	-	-	-	-	-	-	0	-	-	-	-	-	-	-	69	69	C	-		
23		Job: 2201 - Vacuum Pumping Systems-BLANCHARD	-	-	-	-	-	-	0	-	-	-	-	-	-	-	172	172	C	-		
24		Job: 3101 - Magnetic Diagnostics-STRATTON	182.0	144	121	0.79	1.19	(38)	23	37	5	9	0.15	0.58	(32)	(4)	291	291	JM	-		
25		Job: 3601 - Edge Divertor Diagnostics-STRATTON	-	-	-	-	-	-	0	-	-	-	-	-	-	-	31	31	C	-		
26		Job: 3801 - Electron Beam Mapping-STRATTON	-	-	-	-	-	-	0	-	-	-	-	-	-	-	263	263	C	-		
27		Job: 3901 - Diagnostics sys Integration-STRATTON	10.0	11	20	1.14	0.57	1	-9	2	2	2	1.02	0.85	0	(0)	132	233	C	101		
28		Job: 6101 - Water Systems-DUDEK	-	-	-	-	-	-	0	-	-	-	-	-	-	-	46	46	C	-		
29		Job: 6201 - Cryogenic Syst-GETTELFINGER	-	-	-	-	-	-	0	-	-	-	-	-	-	-	655	655	C	-		
30		Job: 6301 - Utility Systems-DUDEK	-	-	-	-	-	-	0	-	-	-	-	-	-	-	105	105	C	-		
31		Job: 6401 - PFC/VV Htng/Cooling(bakeout)- KALINSKI	-	-	-	-	-	-	0	-	-	-	-	-	-	-	573	573	C	-		
32		Job: 7301 - Platform Design &	-	3	-	-	-	3	3	-	(0)	-	-	-	(0)	(0)	204	204	C	-		
33		Job: 7401 - TC Prep & Mach Assy Planning-PERRY	(308.0)	(308)	(282)	1.00	1.09	(0)	-26	-	-	0	-	0.00	-	(0)	1,417	1,297	C	(120)		
34		Job: 7501 - Construction Support Crew-PERRY	-	-	-	-	-	-	0	-	-	-	-	-	-	-	1,407	1,407	C	-		
35		Job: 7503 - Machine Assembly (station 6)-PERRY	-	-	-	-	-	-	0	-	-	-	-	-	-	-	4,511	4,511	C	-		
36		Job: 7601 - Tooling Design & Fabrication-PERRY	-	-	-	-	-	-	0	-	-	-	-	-	-	-	412	412	C	-		
37		Total Larry Dudek	2,812	2,900	2,728	1.03	1.06	88	172	548	708	723	1.29	0.98	161	(15)	24,791	24,942		151		

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1	NCSX Cost Performance Report																				
2	Period May 1, 2007 through September 30, 2007																				
3	(Measured against unofficial proposed baseline)																				
4			CUMULATIVE							MONTHLY											
5	RLM	JOB	BCWS	BCWP	ACWP	SPI	CPI	schedule variance	cost variance	BCWS	BCWP	ACWP	SPI	CPI	schedule variance	cost variance	BUDGET to COMPLETE (from May 1,2007)	EAC	C=calculated JM=Job Mgr estimate	overrun/ (under)	
39	H - Phil Heitzenroeder	Job: 1302 - PF Design -KALISH	44	60	44	1.37	1.36	16	16	30	13	31	0.43	0.43	(17)	(18)	257	257	JM	-	
40		Job: 1352 - PF Coil Procurement-KALISH	-	-	-	-	-	0	0	-	-	-	-	-	-	-	1,630	1,630	C	-	
41		Job: 1353 - CS Structure Procurement-DAHLGRE	-	-	-	-	-	0	0	-	-	-	-	-	-	-	337	337	C	-	
42		Job: 1354 - Trim Coil Design &Procurement-KALIS	-	-	-	-	-	0	0	-	-	-	-	-	-	-	162	162	C	-	
43		Job: 1355 - WBS 13 I&C Proc and Coil Assy-KALI	-	-	-	-	-	0	0	-	-	-	-	-	-	-	73	73	C	-	
44		Job: 1361 - TF Fabrication-KALISH	228	268	271	1.17	0.99	40	-4	60	68	86	1.14	0.79	8	(18)	1,003	1,003	JM	-	
45		Job: 1404 - MCWF R&D 1st Prod	(36)	(36)	(35)	1.00	1.03	0	-1	-	-	0	0.00	-	(0)	(0)	(36)	(36)	JM	-	
46		Job: 1411 - MCWF Fabr. S005242-HEITZENROE	(84)	(80)	(65)	0.96	1.23	4	-15	-	0	18	0.00	0	(18)	(18)	(80)	(80)	JM	-	
47		Job: 1416 - Mod Coil Type AB Fnl Dsn-WILLIAMS	70	103	68	1.47	1.52	33	35	12	0	(0)	0.00	-0.68	(12)	0	280	280	JM	-	
48		Job: 1421 - Mod Coil Interface Design-WILLIAM	996	741	675	0.74	1.10	(255)	67	102	30	123	0.30	0.25	(72)	(93)	1,207	1,207	JM	-	
49		Job: 1429 - MC Interface R&D-GETTELFINGER	118	74	86	0.63	0.86	(44)	-12	-	(9)	5	-1.79	(9)	(14)	(14)	118	118	JM	-	
50		Job: 1501 - Coil Structures Design-DAHLGREN	164	137	177	0.83	0.77	(27)	-40	36	55	2	1.52	24.21	19	52	186	186	JM	-	
51		Job: 1550 - Coil Struct. Procurement -DAHLGREN	-	-	-	-	-	0	0	-	-	-	-	-	-	-	1,076	1,076	C	-	
52		Job: 1601 - Coil Services Design-GORANSON	6	15	-	2.43	-	9	15	-	8	-	-	8	8	8	861	861	C	-	
53		Job: 1701 - Cryostat Design-GETTELFINGER	-	-	5	-	0.00	-	-5	-	-	1	0.00	-	(1)	(1)	207	207	JM	-	
54		Job: 1702 - Base Support Struct Design-DAHLGR	-	11	-	-	-	11	11	-	11	-	-	11	11	11	163	163	JM	-	
55		Job: 1751 - Cryostat Procurement-GETTELFINGE	-	-	-	-	-	0	0	-	-	-	-	-	-	-	325	325	C	-	
56		Job: 1752 - Base Support Proc-DAHLGREN	-	-	-	-	-	0	0	-	-	-	-	-	-	-	89	89	C	-	
57		Job: 1806 - FP Assembly specs	92	36	2	0.39	18.01	(56)	34	25	8	-	0.34	-	(17)	8	514	514	JM	-	
58		Job: 1901 - Stellarator Core Mngt&Integr-COLE	162	162	110	1.00	1.47	(0)	52	29	29	13	1.00	2.21	(0)	16	1,620	1,100	C	(520)	
59		Job: 8202 - Engr Mgmt & Sys Eng Support-REIER	343	342	318	1.00	1.08	(1)	24	53	53	54	1.00	0.98	0	(1)	2,649	2,463	C	(186)	
60		Job: 8203 - Design Integration-BROWN	161	160	37	1.00	4.39	(1)	124	29	30	15	1.02	2.04	1	15	1,408	1,408	JM	-	
61		Job: 8204 - Systems Analysis-BROOKS	180	181	225	1.01	0.80	1	-44	32	33	32	1.03	1.03	1	1	1,154	1,438	C	284	
62		Job: 8205 - Dimensional Control Coordin-ELLIS	102	76	92	0.75	0.83	(26)	-16	18	1	11	0.04	0.07	(17)	(10)	598	725	C	127	
63		Job: 8210 - FY07 Rebaseling tasks	19	19	45	0.99	0.42	(0)	-26	-	(0)	6	0.00	(0)	(6)	(6)	19	46	C	27	
64		Job: 8215 Plant Design	15	-	-	0.00	-	(15)	0	7	-	-	0.00	-	(7)	-	121	121	C	-	
65		Total Phil Heitzenroeder	2,580	2,269	2,056	0.88	1.10	(311)	213	433	330	397	0.76	0.83	(103)	(67)	15,941	15,672		(269)	
68	V - Al vonHalle	Job: 4101 - AC Power-RAMAKRISHNAN	(104)	(104)	(104)	1.00	1.00	(0)	0	-	-	-	-	-	-	-	55	55		0	
69		Job: 4301 - DC Systems-RAMAKRISHNAN	-	-	-	-	-	0	0	-	-	-	-	-	-	-	603	603		-	
70		Job: 4401 - Control & Protection-RAMAKRISHNA	-	-	-	-	-	0	0	-	-	-	-	-	-	-	1084	1,084		-	
71		Job: 4501 - Power Sys Dsn & Integr-RAMAKRISH	-	-	(1)	-	0.00	-	1	-	-	-	-	-	-	-	683	683		-	
72		Job: 5101 - Network and Fiber	-	-	-	-	-	0	0	-	-	-	-	-	-	-	150	150		-	
73		Job: 5201 - I&C Systems-SICHTA	-	-	-	-	-	0	0	-	-	-	-	-	-	-	196	196		-	
74		Job: 5301 - Data Acquisition-SICHTA	-	-	-	-	-	0	0	-	-	-	-	-	-	-	165	165		-	
75		Job: 5401 - Facility Timing &	-	-	-	-	-	0	0	-	-	-	-	-	-	-	205	205		-	
76		Job: 5501 - Real Time Control	-	-	-	-	-	0	0	-	-	-	-	-	-	-	129	129		-	
77		Job: 5601 - Central Safety &Interlock Sys-SICHTA	-	-	-	-	-	0	0	-	-	-	-	-	-	-	222	222		-	
78		Job: 5801 - Central I&C Integr& Oversight-SICHTA	6	7	-	1.16	-	1	7	1	1	-	1.26	0	1	1	69	69		-	
79		Job: 8501 - Integrated Systems Testing-GENTILE	-	-	-	-	-	0	0	-	-	-	-	-	-	-	765	765		-	
80		Total Al vonHalle	(98)	(97)	(105)	0.99	0.93	1	8	1	1	-	1.26	#DIV/0!	0	1	4,326	4,326		0	
82		Total project	5,777	5,554	5,277	0.96	1.05	(223)	278	1,068	1,125	1,300	1.05	0.87	58	(175)	50,853	51,859		1,006	





Activity ID	Activity Description	Job Number	Job Mgr	BASELINE FINISH	FORECAST	DOE LEVEL II DATE	Milestone Level	Total Float	FY07					FY08					FY09					FY10					FY11																
									M	J	J	A	S	S	O	N	D	J	F	M	A	M	J	J	A	S	S	O	N	D	J	F	M	A	M	J	J	A	S	S	O	N	D	J	J
Phil Heitzenroeder																																													
INTRF-045	FDR prep outboard shims	1421	DW	18JUL07	29JUN07A		3																																						
1501-525P	Coils Support Structure - PDR	1501	FD	20JUL07	20JUL07A		3																																						
1361C-104M	** DELIVER TF COILS FOR FPA #1 ASSY **	1361	MK	28SEP07	05OCT07	DEC 2007	2	355																																					
METFY07R1	Dimensional control plans for station 2	8205	BE	31AUG07	08OCT07		3	-19																																					
1416-506	Check and promote top-level models/drawings	1416	DW	21NOV07	30OCT07		3	95																																					
1803-201	Station 2 Assembly Specification	1806	MC	11SEP07	30OCT07		3	-35																																					
1803-205	Station 2 Assembly Drawings	1806	MC	11SEP07	30OCT07		3	-21																																					
1416-601	Prepare EM and structural analysis of leads	1416	DW	06NOV07	06NOV07		3	65																																					
METDCP-3	Dimensional control plans for station 3	8205	BE	15OCT07	19NOV07		3	31																																					
INTRF-055	AB/BC/AA inboard interface - FDR	1421	DW	04SEP07	22NOV07*	NOV 2007	2	-57																																					
1361C-106	Fab, Test & Deliver Coil #6	1361	MK	23NOV07	23NOV07		3	402																																					
1501-541	Coil Support Structures - FDR	1501	FD	21SEP07	10DEC07		3	110																																					
1302-270	PF Coils - FDR	1302	MK	24MAR08	03JAN08		3	72																																					
1416-605	Prepare Type-ABC closeout FDR	1416	DW	14JAN08	21FEB08		3	37																																					
1421-3144	Mod Coil C-C Joint - FDR	1421	DW	07JAN08	05MAR08		3	407																																					
141-036	PF Coils Awarded	1352	MK	27MAY08	06MAR08	SEP 2008	2	72																																					
1702-515	Base support - PDR	1702	FD	26NOV07	06MAR08		3	0																																					
METDCP-5	Dimensional control plans for station 5	8205	BE	15FEB08	21MAR08		3	86																																					
191-002	LN2 manifolds&pipng- PDR	1601	PG	02APR08	02APR08		3	99																																					
162-036.9	Award Coil Support Structure	1550	FD	16JUN08*	28APR08*	OCT 2008	2	62																																					
1702-525M	Base Support Structure FDR	1702	FD	04FEB08	28APR08	MAY 2008	2	0																																					
141-038	PF Conductor Awarded	1352	MK	27MAY08*	01MAY08*		3	102																																					
161-036.8	Bid and award base support materials	1752	FD	19JUN08	09JUL08		3	0																																					
METDCP-6	Dimensional control plans for station 6	8205	BE	09JUN08	15JUL08		3	86																																					
1351-195X	ALL TF COILS DELIVERED	1361	MK	18SEP08	18SEP08		3	332																																					
1803-605M	Station 6 Specification & Assy Drawings	1806	MC	02OCT08	02OCT08	MAR 2009	2	30																																					
161-036.9	Deliver base support materials	1752	FD	22SEP08	09OCT08		3	0																																					
1803-609	Detail dwgs-spool piece	1806	MC	31OCT08	31OCT08		3	288																																					
162-037M	Fabricate TF/MCWF mounting Components	1550	FD	01JUL09	13MAY09	DEC 2009	2	62																																					
Larry Dudek																																													
1803-3.4	Stage 3 support FDR	1803	TB	13JUL07	17JUL07A		3																																						
3101-326	ROWGOSKI COIL - FDR	3101	BS	06SEP07	09AUG07A		3																																						
1803-5.6	Station 5 FDR	1803	TB	21NOV07	29OCT07		3	144																																					
S21-5.04X	Shims required for 1st 3 pack MC assy	1431	LD	20SEP07	16NOV07	DEC 2007	2	-24																																					
R1810-1329	Final Scan of VVSA #3 Station 1 complete	1810	MV	06FEB08	07JAN08		3	321																																					
P3-171VM	COMPLETE VPI OF 18th MOD COIL	1451	JC	15JUL08	15MAY08	NOV 2008	2	89																																					

Run Date 09OCT07 07:46

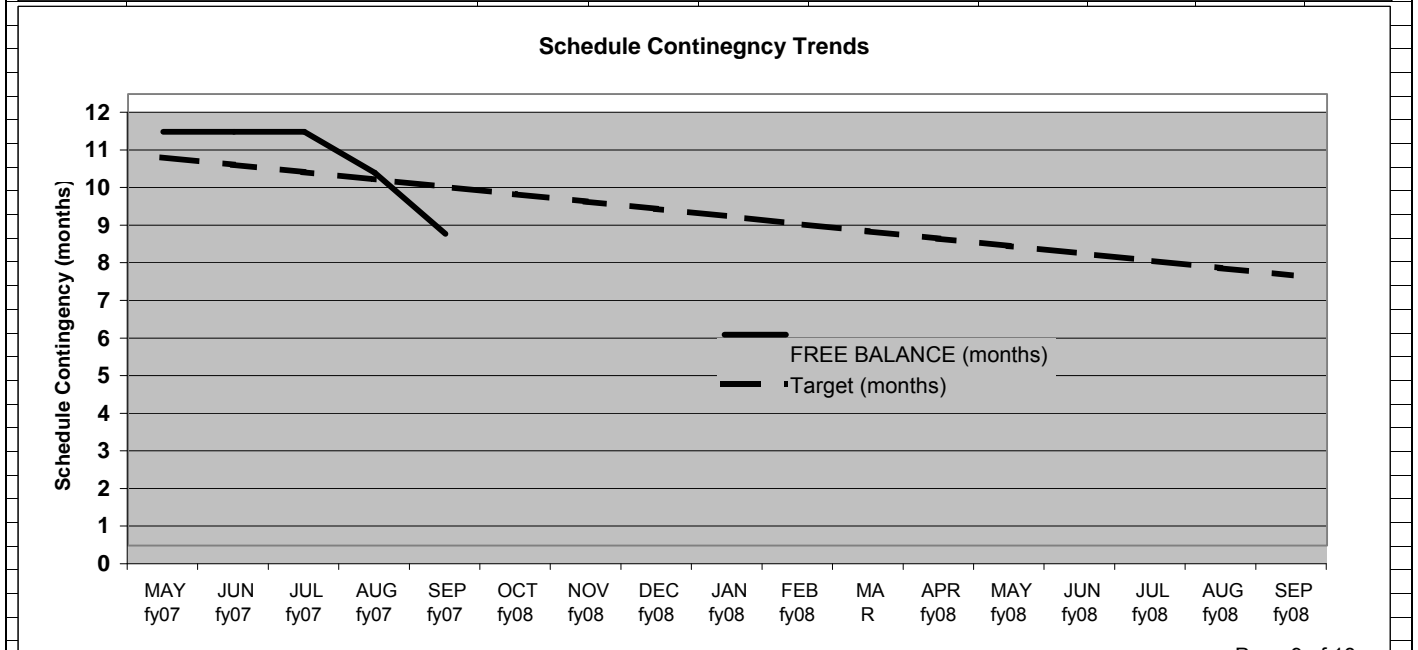
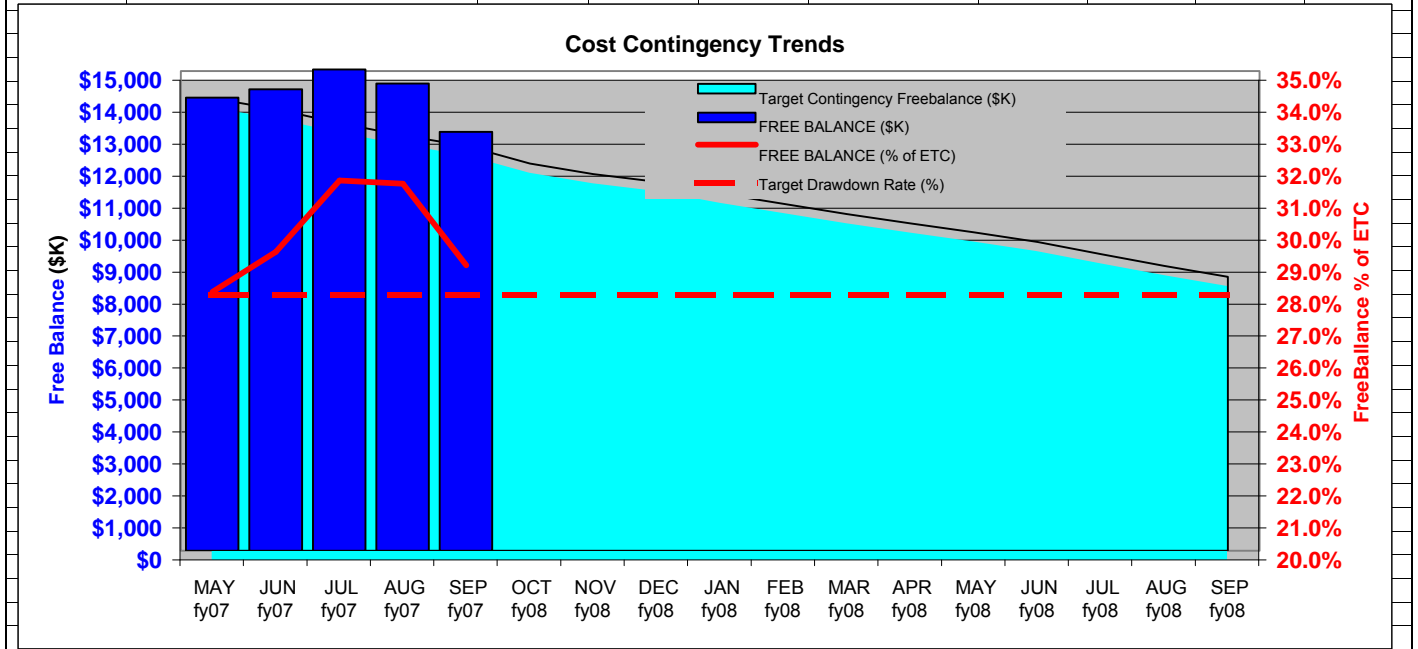
0709

NCSX Project
 Resource Loaded Schedule
 September Status 2007
 MILESTONE REPORT

Sheet 1 of 2

Activity ID	Activity Description	Job Number	Job Mgr	BASELINE FINISH	FORECAST	DOE LEVEL II DATE	Milestone Level	Total Float	Gantt Chart																							
									FY07			FY08			FY09			FY10			FY11											
									M	J	J	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M
1803-6.6	Station 6 FDR	1803	TB	04JUN08	04JUN08		3	69																								
PLCT-C6M	COMPLETE MODULAR COIL FABRICATION	1459	JC	30SEP08	17JUL08	FEB 2009	2	89																								
S21-11.07M	Complete 1st MCHP Assy (Sta 2)	1810	MV	09MAY08	31JUL08	SEP 2008	2	-57																								
S22-11.06	Remove from stand Move A2-B2-C2 to holding	1810	MV	19JUN08	10SEP08		3	-53																								
7501-10.4M	Complete Base Support Structure Assembly	7503	EP	12JAN09	28JAN09	JUL 2009	2	0																								
S31-10.02M	Complete 1st MC-VV Assy (Sta 3)	1810	MV	29OCT08	29JAN09	APR 2009	2	-53																								
S32-10.02M	Complete 2nd MC-VV Assy (Sta 3)	1810	MV	11MAR09	01JUN09	SEP 2009	2	-57																								
S51-14.03M	Complete 1st Field Period Assy (Sat. 5)	1815	MV	29MAY09	19AUG09	NOV 2009	2	-52																								
S33-10.02M	Complete 3rd MC-VV Assy (Sta 3)	1810	MV	08JUN09	27AUG09	DEC 2009	2	-57																								
S52-14.03M	Complete 2nd Field Period Assy. (Sta.5)	1815	MV	05OCT09	06JAN10	MAY 2010	2	-48																								
7503-150	FPA-3 Installed on sleds	7503	EP	15DEC09	16MAR10	JUL 2010	2	-57																								
380-135M	E-beam mapping apparatus ready for Installation	3801	BS	14APR10	14APR10	DEC 2010	2	46																								
7503-412M	Move FPA's & spacers together/chk fitup	7503	EP	16FEB10	06MAY10	OCT 2010	2	-57																								
623-261M	Complete Cryo Systems Pre-ops Test	6201	GG	01JUL10	01JUL10	FEB 2011	2	49																								
7503-250	Begin Vac Vsl Pumpdown	7503	EP	25JUN10	16SEP10	MAR 2011	2	-57																								
7503-330	Begin Cryostat Installation	7503	EP	06OCT10	05JAN11	JUL 2011	2	-57																								
7503-458M	Complete Power System Pre-ops Tests	7503	EP	25OCT10	24JAN11	AUG 2011	2	-57																								
730.8200M	Cooldown of Machine	7503	EP	03JAN11	23MAR11	NOV 2011	2	-57																								
AI vonHalle																																
451-2-3	Power system - PDR	4501	RR	18DEC08	18DEC08	JUN 2009	2	146																								
451-202.2	Power systems C-Site - FDR	4501	RR	28JUL09	28JUL09	FEB 2010	2	146																								
R56-70M	Compl Central Safety&Interlock Sys Pre-ops	5601	PS	12AUG10	12AUG10	MAY 2011	2	39																								
730.1250	PSO Operational Readiness Assessment	8501	CG	21OCT10	21OCT10	SEP 2011	2	5																								
8501-304	Begin Start-up Testing	8501	CG	04NOV10	03FEB11	OCT 2011	2	-57																								
8501-110	NCSX Startup Complete	8501	CG	31JAN11	20APR11	DEC 2011	1	-57																								
730.9000	CD-4	8501	CG	23DEC11*	23DEC11*	DEC 2011	1	0																								

Cost	period ending	MAY fy07	JUN fy07	JUL fy07	AUG fy07	SEP fy07	OCT fy08	NOV fy08	DEC fy08
Baseline		14,380	14,380	14,380	14,380	14,380			
ECP drawdown		-	-	-	-	-			
	(ECP Number)	none	none	none	none	none			
EAC (overrun)/underrun		-	-	-	-	(1,006)			
Cost Variance (overrun)/underrun		(209)	49	672	452	278			
Schedule Slip (@\$202k/mo.)		-	-	-	(221)	(548)			
FREE BALANCE (\$K)		14,171	14,429	15,052	14,611	13,103			
BCWR		50,433	49,162	47,668	46,424	45,299			
FREE BALANCE (% of ETC)		28.1%	29.4%	31.6%	31.5%	28.9%			
Target Drawdown Rate (%)		28.3%	28.3%	28.3%	28.3%	28.3%	28.3%	28.3%	28.3%
BCWR		50004	48796	47244	45880	44747	42784	41635	40752
BCWS		621	1208	1552	1364	1133	1963	1149	883
Target Contingency Freebalance (\$K)		14,151	13,809	13,370	12,984	12,663	12,108	11,783	11,533
Schedule									
Baseline		11	11	11	11	11			
ECP Schedule Drawdown		0	0	0	0	0			
Critical path Schedule Slip		0	0	0	-1.1	-2.7			
FREE BALANCE (months)		11.0	11.0	11.0	9.9	8.3			
Target (months)		10.80	10.61	10.41	10.21	10.02	9.82	9.63	9.43



Activity ID	Activity Description	Duration (work days)	Total Float (work days)	FY07												FY08												FY09											
				JUL			AUG			SEP			OCT			NOV			DEC			JAN			FEB			MAR			APR			MAY			JUN		
				1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3			
14 - Modular Coils																																							
Job: 1421 - Mod Coil Interface Design-WILLIAMSON																																							
Inboard Interface-AB/BC/AA																																							
INTRF-050	Complete Shim fabrication drawings (ORNL)	77*	-57	Complete Shim fabrication drawings (ORNL)																																			
INTRF-054	FDR prep AB/BC/AA inboard Interface	25	-57	FDR prep AB/BC/AA inboard Interface																																			
INTRF-055	AB/BC/AA inboard interface - FDR	0	-57	AB/BC/AA inboard interface - FDR																																			
1421-3138	Resolve issues, release assembly spec&drawings	5	-57	Resolve issues, release assembly spec&drawings																																			
18 - Field Period Assembly																																							
Job: 1802 - FP Assy Oversight&Support-VIOLA																																							
Station 2 procedures,JHA,ACC,Training,Prep																																							
R1802-207	Procedures written & approved	14	-57	Procedures written & approved																																			
R1802-209	JHA completed	6	-57	JHA completed																																			
R1802-211	Training needs identified & released	6	-57	Training needs identified & released																																			
R1802-213	ACC review completed	2	-57	ACC review completed																																			
R1802-215	Pre-job brief completed	1	-57	Pre-job brief completed																																			
R1802-217	Station 2 operational	1	-57	Station 2 operational																																			
Job:1810-Field Period Assy -Station 1,2,3 VIOLA																																							
Setup																																							
R1810-2108	HARDWARE,DRAWINGS,& PROCURES AVAILABLE	0	-57	HARDWARE,DRAWINGS,& PROCURES AVAILABLE STATION 2																																			
Station 2-MC Sub Assy A1-B1-C1																																							
Pre-assemble A1-A2																																							
S21-5.00	BEGIN A-A Pre-assembly	0	-57	BEGIN A-A Pre-assembly																																			
S21-5.01	Place A2 "B" side down. Obtain fiduals	2	-57	Place A2 "B" side down. Obtain fiduals																																			
S21-5.02	Align to the conical seats locking into 8.	1	-57	Align to the conical seats locking into 8.																																			
S21-5.03	Meas monuments on fixture & walls.	2	-57	Meas monuments on fixture & walls.																																			
S21-5.04	Place shims on coil identical to A1-A2 fit up	1	-57	Place shims on coil identical to A1-A2 fit up																																			
S21-5.05	Install dial indicators on the MC to see deflec	1	-57	Install dial indicators on the MC to see deflec																																			
S21-5.06	Lower mating A1 modular coil into position.	1	-57	Lower mating A1 modular coil into position.																																			
S21-5.07	Meas monuments bottom coil. Jack to .002δ	1	-57	Meas monuments bottom coil. Jack to .002δ																																			
S21-5.08	Using 3 points, position as was done inA1A2 fit	1	-57	Using 3 points, position as was done inA1A2 fit																																			
S21-5.09	Torque to 50%	2	-57	Torque to 50%																																			
S21-5.1	Make "wiggle" test Tighten bolt and recheck.	1	-57	Make "wiggle" test Tighten bolt and recheck.																																			
S21-5.11	Meas tooling balls both coils.	5	-57	Meas tooling balls both coils.																																			
S21-5.12	Adjust shims locally. Re-torque all studs to 50%	3	-57	Adjust shims locally. Re-torque all studs to 50%																																			
S21-5.14	Install A-A locator bushings	2	-57	Install A-A locator bushings																																			
S21-5.15	Remove studs,nuts,shims. Identify shim locations	1	-57	Remove studs,nuts,shims. Identify shim locations																																			
A-B Assembly																																							
S21-6.01	Place Type A "A" side down. Obtain fiduals	2	-57	Place Type A "A" side down. Obtain fiduals																																			
S21-6.02	Align to the conical seats locking into 8.	1	-57	Align to the conical seats locking into 8.																																			
S21-6.03	Meas monuments on fixture & walls.	2	-57	Meas monuments on fixture & walls.																																			

Run Date 09OCT07 08:06

█ Forecast
█ Progress Bar
█ Critical Activity

0709

NCSX Project
 September 2007 Status
****PRIMARY CRITICAL PATH****

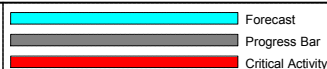
Sheet 1 of 4

Activity ID	Activity Description	Duration (work days)	Total Float (work days)	FY08																							
				FY07			FY08												FY09								
				JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
S21-6.04	Place the an initial set shims on coil	2	-57																								
S21-6.041	Stuff shim bag w/fiberglass & place on wing	1	-57																								
S21-6.05	Lower the Type-B coil onto the Type-A coil.	1	-57																								
S21-6.06	Measure monuments on A coil. Jack to .002ö	1	-57																								
S21-6.061	instl dial indicators for x-y positioning	1	-57																								
S21-6.07	Perform the X-Y positioning of the B coil.	1	-57																								
S21-6.08	Install remaining metal shims torque to 50%	2	-57																								
S21-6.09	Make "wiggle" test Tighten bolt and recheck.	1	-57																								
S21-6.1	Measure the tooling balls on both coils.	5	-57																								
S21-6.11	Loosen studs, adjust shims. Re-torque to 50%.	3	-57																								
S21-6.12	Install alumina shims. Re-torque to 50%.	1	-57																								
S21-6.13	Make "wiggle" test Tighten bolt and recheck.	1	-57																								
S21-6.14	Measuretooling balls . The max devi .007ö .	5	-57																								
S21-6.15	Loosen studs, adjust shims. Re-torque to 50%.	3	-57																								
S21-6.16	Install bushings. Tighten back to 50%	10	-57																								
S21-6.17	Complete tightening of flange bolts to 100%.	1	-57																								
S21-6.18	Measuretooling balls . The max devi .007ö .	2	-57																								
S21-6.19	Scan the öBö flange of Type-B coil	1	-57																								
AB - C Assembly																											
S21-7.01	Place öA/Bö assy, öAö coil dwn, on 40deg fix.	3	-57																								
S21-7.02	Align to the conical seats locking into a min of	1	-57																								
S21-7.03	Measure the monuments on the fixture & the walls	2	-57																								
S21-7.04	Place initial set metal shims on the coil	2	-57																								
S21-7.05	Lower the Type-C coil onto the Type-B coil.	1	-57																								
S21-7.06	Meas monuments on A coil to eval displacement.	1	-57																								
S21-6.062	instl dial indicators for x-y positioning	1	-57																								
S21-7.07	Perform the X-Y positioning of the coil.	1	-57																								
S21-7.08	Install remaining metal shims torque to 50%	2	-57																								
S21-7.09	"wiggle" test Tighten bolt and recheck.	1	-57																								
S21-7.1	Measure the tooling balls on all coils.	5	-57																								
S21-7.11	adjust shims locally. Re-torque all studs to 50%	3	-57																								
S21-7.12	linstall alumina shims. Re-torque all studs to	1	-57																								
S21-7.13	"wiggle" test Tighten bolt and recheck.	1	-57																								
S21-7.14	Measure the tooling balls on all coils.	5	-57																								
S21-7.15	adjust shims locally. Re-torque all studs to 50	3	-57																								
S21-7.16	Install bushings	10	-57																								
S21-7.17	Complete tightening of flange bolts to 100%.	1	-57																								
S21-11.01	Identify primary fiducials for positioning Sta 3	1	-57																								
S21-7.18	Final metrology meas. Scan öBö flangeType-C coil	5	-57																								
Tack Weld Inboard Welded hms																											
S21-8.01	Tack weld inboard shims	2	-57																								
Complete Local Service & interface details																											
S21-10.02	Make local service runs/connections	8	-57																								
Final Measurements/Transfer to Holding Area																											
DOE-1	Notify DOE of scheduled station 3 lifts	0	-57																								

Activity ID	Activity Description	Duration (work days)	Total Float (work days)	FY07												FY08						FY09					
				JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
DOE-2	DOE review lift procedures	30	-57																								
DOE-3	DOE approval of scheduled station 3 lifts	0	-57																								
S21-11.03	Measure bolt length on all tension fasteners	0	-57																								
S21-11.04	Mark part for identification	0	-57																								
S21-11.05	Install lift support beams	2	-57																								
S21-11.06	Remove from stand & measure weight of assy	1	-57																								
S21-11.07	Move A1-B1-C1 to holding area.	0	-57																								
S21-11.07M	Complete 1st MCHP Assy (Sta 2)	0	-57																								
+ Station 2 MC Sub Assy A2-B2-C2																											
		91	-53																								
Station 2-Modular Coil Subassembly-FP#2																											
S23-A3B3C3	Assemble/Align Mod-Coils A3/B3/C3	140	-57																								
+ Station 3-Assemble Mod Coils and VVSA-FP#1																											
		92	-53																								
Station 3-Assemble Mod Coils and VVSA-FP#2																											
S32-1.01	Install Station 3 site monuments	3	-53																								
S32-1.02	Install floor mounted tracks and VV base support	5	-53																								
S32-1.03	Establish the MCHP CG location.	2	-53																								
S32-2.01	Install MCHP support cart assemblies	4	-53																								
S32-2.02	Verify cart motion.	2	-53																								
S32-2.03	Install adjustor bar support weldment	0	-53																								
S32-2.04	Position left MCHP on the cart assembly	1	-57																								
S32-2.05	Secure left MCHP on support cart base.	2	-57																								
S32-2.06	Measure monuments on left MCHP and walls	5	-57																								
S32-2.07	Set positioning stop on the cart	1	-57																								
S32-3.01	Move right base support cart to its final position	1	-57																								
S32-3.02	Lift the right side MCHP and position	1	-57																								
S32-3.03	Temporary fasteners bring the parts together.	0	-57																								
S32-3.04	AirLoc Wedgemount leveler to take load.	0	-57																								
S32-3.05	Install temp scaffolding to install flange hw	1	-57																								
S32-3.06	Install bolts and shims	1	-57																								
S32-3.07	Tighten flange fasteners to 50%	1	-57																								
S32-3.08	Perform metrology measurements	5	-57																								
S32-3.09	Perform position adjust on right side MCHP	2	-57																								
S32-3.1	Verify position of the VV support hanger	3	-57																								
S32-3.11	Remove flange hardware and temp platforms	1	-57																								
S32-4.01	Measure monuments on the MCHP's & walls.	2	-57																								
S32-4.02	Place all of the laser screens	2	-57																								
S32-4.03	Determine laser alignment.	1	-57																								
S32-4.04	mount the milar on the screens.	1	-57																								
S32-4.05	Disengage MCHP's to move the left MCHP.	1	-57																								
S32-4.06	Remove both MCHP's.	2	-57																								
S32-5.01	Remove the adjustor bar support from left side.	0	-57																								

Activity ID	Activity Description	Duration (work days)	Total Float (work days)	FY07												FY08												FY09											
				JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN												
14 - Modular Coils																																							
Job: 1408 - MC Winding Supplies-CHRZANOWSKI																																							
1408-4	Procure & Deliver Thermocouples PE007557	55*	-10	Procure & Deliver Thermocouples PE007557																																			
Job: 1459 - Mod Coil Fabr.Punch List-CHRZANOWSKI																																							
Punchlist Tech shop/RESA																																							
PLTS-A2	Grinding -A2	86*	-5	Grinding -A2																																			
Punchlist- Coil Technicians																																							
PLCT-A1	Insul,measure,TC, other punch list-A1	9	-10	Insul,measure,TC, other punch list-A1																																			
PLCT-A2	Insul,measure,TC, other punch list-A2	7	-10	Insul,measure,TC, other punch list-A2																																			
Job: 1421 - Mod Coil Interface Design-WILLIAMSON																																							
Outboard Interface-Bolted Joint Tests-Tension																																							
1421-3075	Setup test fixture &perform JHA & pre-job brief	2	-32	Setup test fixture &perform JHA & pre-job brief																																			
1421-3077	Meas joint deflect vs preload & loss of preload	2	-32	Meas joint deflect vs preload & loss of preload																																			
1421-3079	Measure joint deflec & preload v. temp @80K	2	-32	Measure joint deflec & preload v. temp @80K																																			
1421-3084	Measure joint deflection&preload v. cooldown cyc	2	-32	Measure joint deflection&preload v. cooldown cyc																																			
1421-3087	Perform pullout tests for tapped holes	2	-32	Perform pullout tests for tapped holes																																			
1421-3081	Meas joint deflect & preload v. time (days) at	2	-32	Meas joint deflect & preload v. time (days) at																																			
1421-3090	Document&conduct review of test results	2	-32	Document&conduct review of test results																																			
Outboard Interface-Bolted Joint Tests-Shear																																							
1421-3112B	Procure/fab parts for test&initial assembly	44	-19	Procure/fab parts for test&initial assembly																																			
1421-3115B	Assemble & test	13	-19	Assemble & test																																			
1421-3119B	Document test results	5	-19	Document test results																																			
Inboard Interface-AB/BC/AA																																							
INTRF-050	Complete Shim fabrication drawings (ORNL)	77*	-57	Complete Shim fabrication drawings (ORNL)																																			
INTRF-040	ANalysis of tensile loads (ORNL)	120*	-32	ANalysis of tensile loads (ORNL)																																			
INTRF-064	PDR	0	-32	PDR																																			
INTRF-054	FDR prep AB/BC/AA inboard Interface	25	-57	FDR prep AB/BC/AA inboard Interface																																			
INTRF-055	AB/BC/AA inboard interface - FDR	0	-57	AB/BC/AA inboard interface - FDR																																			
1421-3138	Resolve issues, release assembly spec&drawings	5	-57	Resolve issues, release assembly spec&drawings																																			
Job: 1429 - MC Interface R&D-GETTELFINGER																																							
Outboard Interface-Friction																																							
1429-3028	Edge loading&Superbolt torque tests 1&2	22	-35	Edge loading&Superbolt torque tests 1&2																																			
1429-3029	Bolt Tests 3&4 Write Report (see 1421-3067to3090)	56*	-32	Bolt Tests 3&4 Write Report (see 1421-3067to3090)																																			
Job: 1431 - Mod. Coil Interface Hardware-DUDEK																																							
Bladders																																							
1421-3024	Prep Req, Bid,& Award Bladders	10	-2	Prep Req, Bid,& Award Bladders																																			

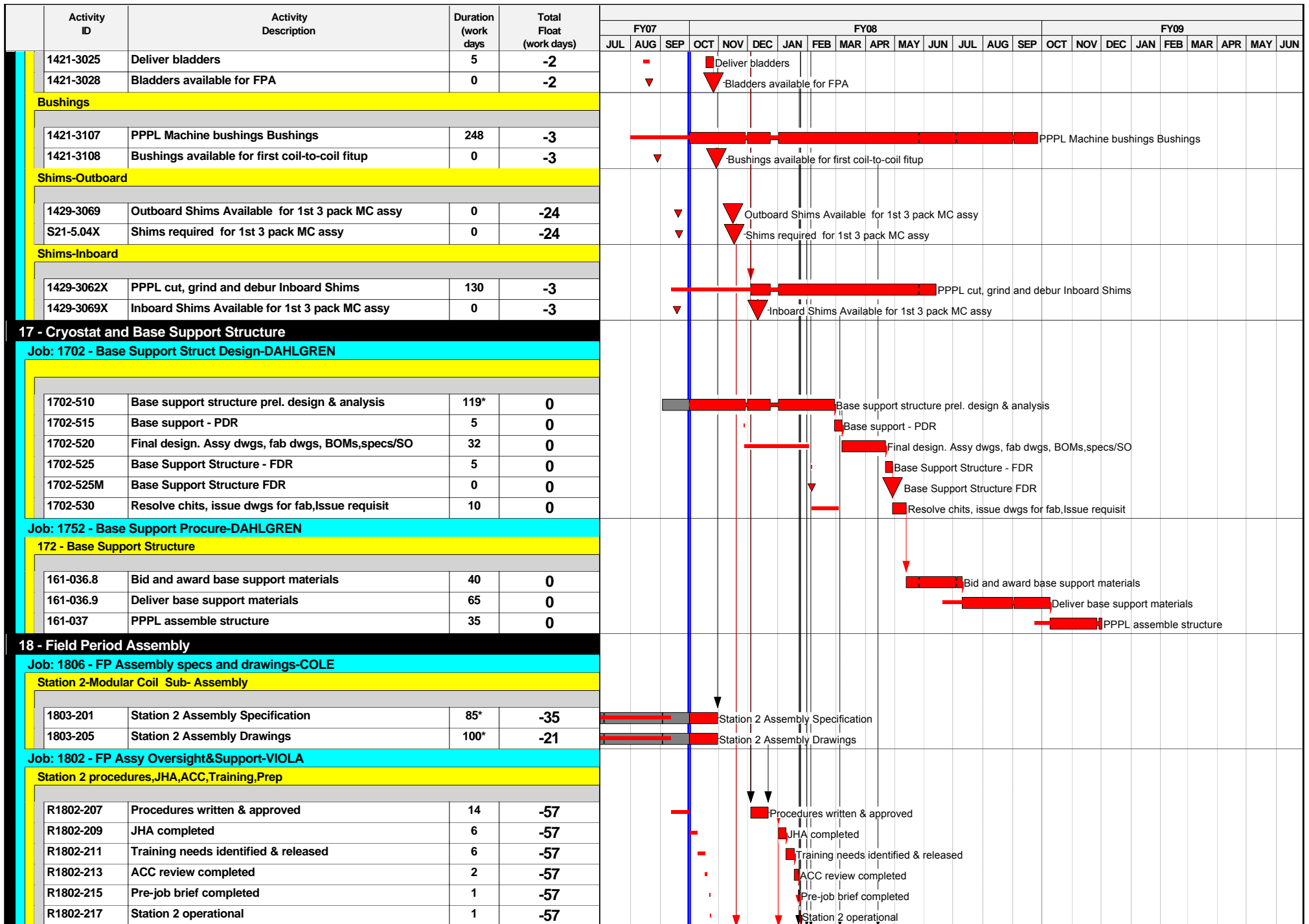
Run Date 09OCT07 08:12



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NCSX Project
September 2007 Status
** ALL CRITICAL PATHS **

Sheet 1 of 5



Activity ID	Activity Description	Duration (work days)	Total Float (work days)	FY08																							
				FY07			FY08												FY09								
				JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
S21-11.01	Identify primary fiducials for positioning Sta 3	1	-57																								
S21-7.18	Final metrology meas. Scan ôBô flangeType-C coil	5	-57																								
+ Tack Weld Inboard Welded hims																											
		2	-57																								
+ Complete Local Service & interface details																											
		8	-57																								
+ Final Measurements/Transfer to Holding Area																											
		31	-57																								
+ Station 2 MC Sub Assy A2-B2-C2																											
		91	-53																								
+ Station 2-Modular Coil Subassembly-FP#2																											
		140	-47																								
+ Station 2-Modular Coil Subassembly-FP#3																											
		148	-37																								
+ Station 3-Assemble Mod Coils and VVSA-FP#1																											
		227	-53																								
+ Station 3-Assemble Mod Coils and VVSA-FP#2																											
		86	-57																								
+ Station 3-Assemble Mod Coils and VVSA-FP#3																											
		62	-57																								
+ Job: 1815 - Field Period Assy -Station 5-VIOLA																											
		260	-57																								
+ 75 - Test Cell and Basement Assembly Operations																											
		571	-57																								
+ 85 - Integrated Systems Testing																											
		234	0																								