
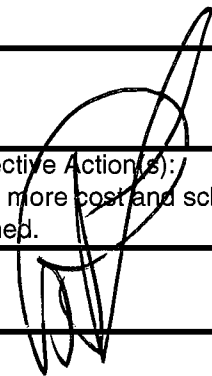
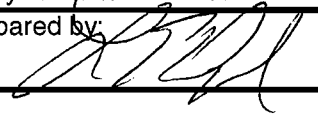
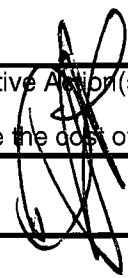


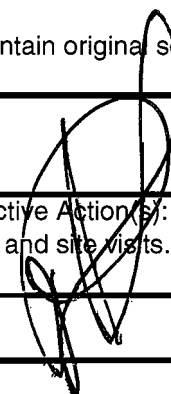
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CONTRACT PERFORMANCE REPORT								FORM APPROVED	
FORMAT 5 - EXPLANATIONS AND PROBLEM ANALYSES								OMB No. 0704-0188	
<b>1. CONTRACTOR</b>		<b>2. CONTRACT</b>			<b>3. PROGRAM</b>			<b>4. REPORT PERIOD</b>	
<b>a. NAME</b> Princeton University-Plasma Phys		<b>a. NAME</b> DOE-SC-OFES-NSTX Upgrade			<b>a. NAME</b> NSTX Upgrade Project			<b>a. FROM (YYYYMMDD)</b> 2011/06/01	
<b>b. LOCATION (Address and ZIP)</b> Princeton, New Jersey		<b>b. NUMBER</b> DE-AC02-09CH11466			<b>b. PHASE</b> CD-2			<b>b. TO (YYYYMMDD)</b> 2011/06/30	
<b>c. TYPE</b> M&O		<b>d. SHARE RATIO</b>			<b>c. EVMS ACCEPTANCE (YYYYMMDD)</b> NO <input checked="" type="checkbox"/> YES				
<b>1.3 Auxiliary Systems</b>									
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI
Current:	13	32	12	19	151%	20	63%	2.51	2.70
Cumulative:	120	111	36	-9	-7%	75	67%	0.93	3.05
	BAC	EAC	VAC in \$	VAC in %	CPI to BAC	CPI to EAC			
At Complete:	377	333	44	12%	0.78	0.90			
Thresholds Exceeded: <b>Cumulative Cost</b>									
Explanation of Variance/Description of Problem: Gas injection system tile work was covered in the PFC tile job with the same designer, hence the expected costs did not show up here. Cooling water system design originally included replacement of pumps which turned out not to be required. This reduced the cost to design.									
Impact: None									
Corrective Action: None required at this time.									
Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s): Primary cause was the use of the PFC designer to do this work which was a more cost and schedule effective way to do the work. Water system design turned out to be simpler than what was originally planned.									
Prepared by: 				Date: 7/13/2011		Approved by: 		Date: 7/13/2011	

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<b>1.5 Power Systems</b>									
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI
Current:	30	108	84	77	254%	24	22%	3.54	1.28
Cumulative:	2,164	2,142	1,927	-22	-1%	216	10%	0.99	1.11
	BAC	EAC	VAC in \$	VAC in %	CPI to BAC	CPI to EAC			
At Complete:	9,359	9,254	105	1%	0.97	0.98			
Thresholds Exceeded: <b>Cumulative Cost</b>									
Explanation of Variance/Description of Problem:  The busswork job used less analysis labor than what was in the plan due to some analysis labor being shared with the CSU Coil design Cost Account In the DCPS job (5200) the analog and digital hardware design tool less time than estimated in the plan.									
Impact: None									
Corrective Action: None required									
Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):  Analysis work for the busswork job overlapped with the OH coil job which bore the cost of the work. This reduced cost to job 5501.									
Prepared by: 				Date: 7/13/11		Approved by: 		Date: 7/13/11	


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c. TYPE M&O		d. SHARE RATIO		c. EVMS ACCEPTANCE (YYYYMMDD) NO X YES					
<b>1304 Inner TF Bundle (Chrzanowski)</b>									
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI
Current:	123	5	252	-118	-96%	-247	-4944%	0.04	0.02
Cumulative:	1,037	786	788	-251	-24%	-2	0%	0.76	1.00
	BAC	EAC	VAC in \$	VAC in %	CPI to BAC	CPI to EAC			
At Complete:	2,595	2,602	-7	0%	1.00	1.00			
Thresholds Exceeded: Cumulative Schedule									
Explanation of Variance/Description of Problem: The contract for machining & FSW the Inner TF conductors has been delayed. RFQ has been sent out and award date is expected by week of July 18th.									
Impact: Late start in awarding contract, but negotiations with potential vendors to maintain original schedule is being discussed.									
Corrective Action: Negotiations with selected vendor to restore delivery dates.									
Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s): The primary cause is that the more time was required for vendor evaluation and site visits. Contract will be awarded week of July 18th. And negotiations to maintaining original schedule will be pursued.									
Prepared by: <i>James H. Chrzanowski</i>				Date: <i>7/13/11</i>		Approved by: 		Date: <i>7/13/2011</i>	


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		c. TYPE M&O	d. SHARE RATIO		c. EVMS ACCEPTANCE (YYYYMMDD) NO X YES				
1307 CS Casing Assembly (Chrzanowski)									
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI
Current:	0	6	16	6	100%	-10	-173%	N/A	0.37
Cumulative:	167	157	248	-11	-6%	-92	-58%	0.94	0.63
	BAC	EAC	VAC in \$	VAC in %	CPI to BAC	CPI to EAC			
At Complete:	904	1,001	-97	-11%	1.14	0.99			
Thresholds Exceeded: Cumulative Cost									
Explanation of Variance/Description of Problem: Analysis costs of the bellows assembly exceeded estimates. The cad design efforts started later than planned because of the lack of Cad designers, but design work will be complete in July.									
Impact: Low impact. The analysis is now complete and supports the present design. Cad work complete in July.									
Corrective Action: No corrective action is available to reduce this particular variance. As a result a negative variance will continue until job has been completed.									
Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s): The primary cause is that the analysis tasks were under estimated. There is no impact on the design that will be completed by the end of July. Start early procurement in September.									
Prepared by: <i>James H. Chrzanowski</i>				Date: 7/13/11		Approved by: <i>[Signature]</i>		Date: 7/13/2011	

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<b>c. TYPE</b> M&O		<b>d. SHARE RATIO</b>		<b>c. EVMS ACCEPTANCE (YYYYMMDD)</b> NO X YES					
<b>2440 2nd NBI Beamline (Denault)</b>									
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI
Current:	42	40	35	-3	-6%	5	12%	0.94	1.14
Cumulative:	320	273	176	-47	-15%	97	36%	0.85	1.55
	BAC	EAC	VAC in \$	VAC in %	CPI to BAC	CPI to EAC			
At Complete:	2,589	2,537	52	2%	0.96	0.98			
Thresholds Exceeded: Cumulative Schedule, Cumulative Cost									
Explanation of Variance/Description of Problem:  Ion dump refurbishment had minor rework due to dimensional differences of existing plate versus original. Extra machining was performed. Despite extra machining overall the machining has had a very experienced machinist which has led to efficiencies and good cost performance.									
Impact: This work has been started well ahead of needed delivery for beamline so no impact. Cost performance is good but brazing steps yet to come may not conclude in underrun.									
Corrective Action: None required. Work continues in the shop and machining is almost complete.									
Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s) Work in progress has gone well with minor rework. No impact on schedule.									
Prepared by: T. Stevenson				Date: 7/7/2011		Approved by: 		Date: 7/13/2011	

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<b>2475 2nd NBI Controls (Cropper)</b>										
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI	
Current:	8	95	5	87	1097%	90	94%	11.97	17.65	
Cumulative:	248	211	60	-37	-15%	151	71%	0.85	3.50	
	BAC	EAC	VAC in \$	VAC in %	CPI to BAC	CPI to EAC				
At Complete:	2,089	2,032	57	3%	0.93	0.95				
Thresholds Exceeded: Cumulative Schedule, Cumulative Cost										
Explanation of Variance/Description of Problem: Good efficiency has led to positive cost performance. Availability of COG and designer due to operations and conflicts has produced minor delays. <span style="float: right; font-weight: bold;">THIS PERTAINS TO THE DESIGN PORTION OF THIS CA ONLY.</span>										
Impact: No impact on controls scope, cost, or schedule. Cost efficiencies are likely to produce an underrun. WAF revised to reflect.										
Corrective Action: None required. Recent status shows improvement.										
Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s): Variances due to conflicts have been corrected.										
Prepared by: T. Stevenson				Date: 7/7/1			Approved by: 		Date: 7/13/2011	