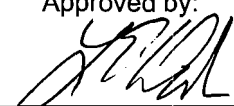
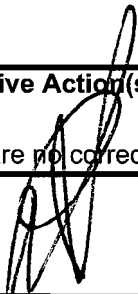
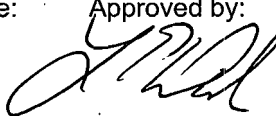


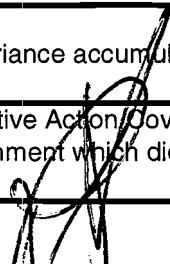
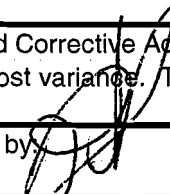


CONTRACT PERFORMANCE REPORT								FORM APPROVED	
FORMAT 5 - EXPLANATIONS AND PROBLEM ANALYSES								OMB No. 0704-0188	
1. CONTRACTOR		2. CONTRACT			3. PROGRAM			4. REPORT PERIOD	
a. NAME Princeton University-Plasma Phys		a. NAME DOE-SC-OFES-NSTX Upgrade			a. NAME NSTX Upgrade Project			a. FROM (YYYYMMDD) 2011/09/01	
b. LOCATION (Address and ZIP) Princeton, New Jersey		b. NUMBER DE-AC02-09CH11466			b. PHASE CD-2			b. TO (YYYYMMDD) 2011/09/30	
		c. TYPE M&O	d. SHARE RATIO		c. EVMS ACCEPTANCE (YYYYMMDD) NO X YES				
3200 Water Cooling System Mods (Denault)									
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI
Cumulative:	74	68	35	-6	-8%	33	49%	0.92	1.95
Thresholds Exceeded: Cumulative Cost									
Explanation of Variance/Description of Problem:									
Positive cost variance due the fact that the original design assumed replacement of water pumps; however, pump replacement was not necessary which led to less time being required for design.									
Impact:									
Other than the cost savings to the project there are no impacts.									
Corrective Action:									
No corrective action required at this time.									
Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):									
A positive cost variance has been realized due to savings in system design. There are no corrective actions required at this time.									
Prepared by:		Date:		Approved by:		Date:			
MARTIN DENAULT		Digitally signed by MARTIN DENAULT DN: cn=MARTIN DENAULT, o=PPPL, ou=WELDING, email=mdenault@pppl.gov, c=US Date: 2011.10.24 08:31:02 -04'00'							

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b. LOCATION (Address and ZIP) Princeton, New Jersey		b. NUMBER DE-AC02-09CH11466		b. PHASE CD-2		b. TO (YYYYMMDD) 2011/09/30					
		c. TYPE M&O	d. SHARE RATIO	c. EVMS ACCEPTANCE (YYYYMMDD) NO X YES							
3400 Gas Delivery System Mods (Blanchard)											
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI		
Cumulative:	41	37	14	-4	-10%	23	61%	0.90	2.58		
Thresholds Exceeded: Cumulative Cost											
Explanation of Variance/Description of Problem:											
Positive cost variance due to some cost savings that were realized where drafting support/drawings required overlapped with the Plasma Facing Components Control Account.											
Impact:											
Other than the cost savings there is no impact on the project.											
Corrective Action:											
This is a positive variance due to cost savings; therefore, no corrective action is necessary.											
Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):											
Positive cost variance due to cost savings in drafting work. No corrective action needed at this time.											
Prepared by:		Date:		Approved by:		Date:					
W. Blanchard		Digitally signed by W. Blanchard DN: cn=W. Blanchard, o, ou=PPPL, email=wblancha@pppl.gov, c=US Date: 2011.10.21 08:49:50 -04'00'									

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		c. TYPE M&O	d. SHARE RATIO		c. EVMS ACCEPTANCE (YYYYMMDD) NO X YES				
4500 MPTS VV Modification (Labik)									
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI
Cumulative:	642	527	651	-115	-18%	-124	-23%	0.82	0.81
Thresholds Exceeded: Cumulative Schedule, Cumulative Cost									
Explanation of Variance/Description of Problem: The variance is the result of the late availability of physics personnel and finite element analysis. The optics analysis is much more complex than anticipated as is the Bay L cap design leading to increased costs.									
Impact: The FDR is being scheduled for November 2011 so this CA should not impact the Critical Path. However the APS meeting has reduced the time available from the physicists possibly delaying the FDR.									
Corrective Action: Underway. The proper personnel have been working during on this CA this past month and a majority of the issues have been resolved. There may be a possible delay in the stress analysis due to an injury to the analyst. The schedule impact is not known as of 20 Oct The analyst must support the passive plate analysis and that work is scheduled to start 20 Oct. I expect to overrun my budget since the diagnostic vacuum interfaces at the Bay L cap are being designed under this CA. The added interfaces require additional stress analysis as well as design effort.									
Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s): The optics analysis is proceeding with no surprises indicating that the vacuum interfaces design is acceptable but it requires additional work. The FDR date may be impacted if the analyst is out for a prolonged period. The APS meeting eliminates the week of 14 Nov for the FDR. The corrective action is to draft another analyst into the Bay L effort which would negatively impact other tasks.									
Directed Action: Do not delay the FDR. Begin procurement and fabrication of the Bay L port in November.									
Prepared by: G. Labik				Date: 20 Oct 2011		Approved by: 		Date: 10/24/2011	

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b. LOCATION (Address and ZIP) Princeton, New Jersey		b. NUMBER DE-AC02-09CH11466		b. PHASE CD-2		b. TO (YYYYMMDD) 2011/09/30			
c. TYPE M&O		d. SHARE RATIO		c. EVMS ACCEPTANCE (YYYYMMDD) NO X YES					
7400 Health Physics Support (Stevenson)									
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI
Cumulative:	896	898	526	2	0%	372	41%	1.00	1.71
Thresholds Exceeded: Cumulative Cost									
Explanation of Variance/Description of Problem: HP coverage for tasks requires two HP individuals to support refurbishment activity. LOE for HP coverage for full time BL refurbishment work. Full coverage planned to cover staffing. Actual HP coverage required was lower (ACWP=526k) because less refurbishment work was performed. Less refurbishment was achieved due to resource conflict with extended NSTX outage, maintenance in the Test Cell on HVAC, and lagging parts and equipment.									
Impact: Refurbishment was started early so adequate time remains to complete. Therefore, HP coverage will continue when required. No impact.									
Corrective Action: Based on progress, LOE HP will be monitored and corrected with EAC if a variance accumulates due to future inefficiencies in refurbishment.									
Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action: Coverage planned for full time activity. This VAR represents a year of reduced coverage required to support refurbishment which did not achieve a full time pace.									
Prepared by: T. Stevenson 10-20-11				Date:		Approved by: 		Date:	

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Princeton University-Plasma Ph		DOE-SC-OFES-NSTX Upgrade		NSTX Upgrade Project			2011/09/01		
b. LOCATION (Address and Z		b. NUMBER		b. PHASE			b. TO (YYYYMMDD)		
Princeton, New Jersey		DE-AC02-09CH11466		CD-2			2011/09/30		
c. TYPE		d. SHARE RATIO		c. EVMS ACCEPTANCE (YYYYMMDD)					
M&O				NO X YES					
1002 Passive Plate Analysis & Upgrade (Dudek)									
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI
Cumulative:	251	249	295	-2	-1%	-46	-18%	0.99	0.84
Thresholds Exceeded: Cumulative Cost									
Explanation of Variance/Description of Problem: The assumptions used to initially analyze these parts were incorrect resulting in high stress levels. Checking and subsequent redoing of the analysis increased the cost to complete the work.									
Impact: This work is essentially complete now so the only impact will be the cost variance. This work will be completed by the end of November and the job can then be closed. The total CV at completion will be ~\$50k.									
Corrective Action: None required.									
Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s): This work is essentially complete now so the only impact will be the cost variance. The job can be closed by the end of November. WHAT THE FACK?									
Prepared by: L. Dudek				Date: 31-Oct-11		Approved by: 		Date: 10/31/2012	

