

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) 2011/08/01				
b. LOCATION (Address and ZIP) Princeton, New Jersey		b. NUMBER DE-AC02-09CH11466			b. PHASE CD-2		b. TO (YYYYMMDD) 2011/08/31				
		c. TYPE M&O	d. SHARE RATIO		c. EVMS ACCEPTANCE (YYYYMMDD) NO X YES						
1.3 Auxiliary Systems											
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI		
Cumulative:	120	109	49	-11	-9%	60	55%	0.91	2.21		
Thresholds Exceeded: Cumulative Cost											
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: No direct impact on project other than the cost savings.											
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: <i>W. Blanchard</i>				Date: <i>4/26/11</i>		Approved by: <i>[Signature]</i>		Date: <i>7/26/2011</i>		<i>[Signature]</i>	

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1.4 Plasma Diagnostics									
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI
Cumulative:	777	670	738	-106	-14%	-68	-10%	0.86	0.91
Thresholds Exceeded: Cumulative Schedule									
Explanation of Variance/Description of Problem: A cumulative WBS Level 2 variance exists as a result of Control Account 4500. CA 4500 cumulative schedule variance exists as a result of several design and analysis tasks being behind schedule. Resource availability has been the main driver for these tasks being behind schedule.									
Impact: The schedule delays on this Control Account are not on the project's critical path; therefore, there is no impact currently. It is noted that the project is now working to an accelerated schedule; therefore, falling further behind could become more critical.									
Corrective Action: Physics and Engineering analysis personnel have been assigned and are working on these tasks. It is felt that this Control Account should not fall any further behind. With an FDR scheduled for November these tasks will need to be completed to support the FDR.									
Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s): Resource availability has led to cumulative schedule variance. Resources now available and an FDR scheduled for Nov									
Prepared by: <i>George Juhel</i>		Date: <i>9/22/11</i>		Approved by: <i>[Signature]</i>		Date: <i>9/25/2011</i>			

ghe/ze

CLASSIFICATION (When Filled In)

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1305 Ohmic Heating Coil (Chrzanowski)									
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI
Cumulative:	1,757	1,617	1,893	-140	-8%	-277	-17%	0.92	0.85
Thresholds Exceeded: Cumulative Cost									
Explanation of Variance/Description of Problem: The time to complete the tooling design for the fabrication of the Inner TF bundle took longer then expected. Analysis time also exceeded expectations.									
Impact: None- critical tooling such as the molds and insulation station are being completed first and placed in shops for fabrication. The balance of tooling is required further along in the coil manufacturing schedule. Analysis is near completion									
Corrective Action: None required									
Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s): Tool design and completion of analysis has taken longer than estimated. There is no impact on the completion of activity since tooling is being completed in order of need. Analysis should be completed in near term.									
Prepared by: <i>James H. Chyrowski</i>				Date: 9-27-11		Approved by: <i>[Signature]</i>		Date: 9/28/2011	