CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT
FORMAT 5 - Explanations and Problem Analysis

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM		4. REPORT PERIOD
a. NAME Princeton University-Plasma Physics Lab	a. NAME DOE-SC-OFES-NSTX Upgrade		a. NAME NSTX Upgrade Project		a. FROM (YYYYMMDD) 2013 / 10 / 01
b. LOCATION (Address and ZIP Code) Princeton, New Jersey	b. NUMBER DE-AC02-09CH11466		b. PHASE CD-3		b. TO (YYYYMMDD) 2013 / 10 / 31
	c. TYPE M&O	d. SHARE RATIO	c. EVMS ACCEPTANCE No X Yes (YYYYMMDI 2011 / 12 / 20		

5. Evaluation

5200 DCPS (Hatcher)

	Budget	Earned	Actuals	SV in $	SV in %	CV in $	CV in %	SPI	CPI
Current:	158	66	127	-92	-58%	-60	-91%	0.42	0.52
Cumulative:	2,161	1,765	2,501	**-396**	-18%	-736	-42%	**0.82**	0.71
	BAC	**EAC**	**VAC in $**	**VAC in %**	**TCPI to BAC**	**TCPI to EAC**			
At Complete:	2,406	3,570	-1,164	-48%	0.27	-			

Explanation of Variance/Description of Problem:
Resources were diverted from the software tasks to verify that the clocking scheme (including data acquisition and I/O) would perform as advertised. Until this was accomplished, progress was not being made on the interface hardware tasks. Two weeks of intense work were required to show the adequacy of the clocking scheme. This work diverted resources from both the hardware and software tasks.

Impact:
A two week hit on both the hardware and software tasks resulted from this diversion of resources. It is expected that some of the work on the software side will have a postivie impact at a later date (most of the work on I/O has been completed).

Corrective Action:
All resources have been deployed to their assigned tasks. There should be no more delays in moving forward.

Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):
The acquisition system was never properly verified after we purchased the hardware from Concurrent Computers. Contrary to poplular belief, the system did not work as we thought "out of the box." Two weeks of concentrated effort was required to properly understand how the system worked and to get Concurrent to address deficiencies resulting from our intended use of the system.

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