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) 2014 / 04 / 01
b. LOCATION (Address and ZIP Code) Princeton, New Jersey	b. NUMBER DE-AC02-09CH11466		b. PHASE CD-3	b. TO (YYYYMMDD) 2014 / 04 / 30
	c. TYPE M&O	d. SHARE RATIO	c. EVMS ACCEPTANCE No X Yes (YYYYMMDD) 2011 / 12 / 20	

5. Evaluation

6100 Control Sys Data Acquisition (Sichta)

	Budget	Earned	Actuals	SV in $	SV in %	CV in $	CV in %	SPI	CPI
Current:	25	130	169	105	411%	-39	-30%	5.11	0.77
Cumulative:	813	638	611	-175	-22%	27	4%	0.78	1.04
	BAC	EAC	VAC in $	VAC in %	TCPI to BAC	TCPI to EAC			
At Complete:	994	972	22	2%	0.31	1.84			

Explanation of Variance/Description of Problem:
A number of activities have contributed to this variance, notably CAMAC replacement work and software, and Power Supply control (PSRTC) software.

Impact:
PSRTC is required to complete power supply rectifier testing. Actual impact can be determined after a schedule for PSRTC has been developed, which is expected in June. CAMAC replacement software's late start is not expected to impact CD-4.

Corrective Action:
A weekly technical PSRTC meeting has been established and the software conceptual design review is complete, although power engineering's requirements are not yet approved and are still changing. CAMAC Replacement software has been and will continue to be deferred in order to service higher priority work; several people in group can do this work so progress is anticipated to be rapid once people are available.

Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):
A schedule variance has occurred due to late-finish on about 6 tasks due to 6100-personnel being assigned to higher-priority NSTX-U work. The PSRTC software is very late starting; the design effort has begun and a weekly technical meeting will engage software, power engineering, and physics operations.

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