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

1306 Inner PF Coils (Chrzanowski)

	Budget	Earned	Actuals	SV in $	SV in %	CV in $	CV in %	SPI	CPI
Current:	0	20	42	20	-	-22	-108%	-	0.48
Cumulative:	824	819	936	-5	-1%	-117	-14%	0.99	0.87
	BAC	EAC	VAC in $	VAC in %	TCPI to BAC	TCPI to EAC			
At Complete:	824	1,062	-238	-29%	0.12	-			

Explanation of Variance/Description of Problem:

Past Cost and schedule over runs are due to significant redesign of all (3) PF coil structures based on the latest analyais reports. This required additional CAD Design time and additional Analysis time. Addtional costs for copper conductor were also accrued because it was determined that more conductor than budgeted would be required for the job. Recent schedule variances are a result of Everson Tesla (the Vendor fabricating the Inner PF coils) who is having delays due to problems at their fabrication Subcontractor (Val-Fab). The schedule will be impacted by several months.

Impact:

Increased project costs from the design phase. The delivery of the first Inner PF coil (and possibly the remaining inner PF coils) are delayed by several months due to the subcontractor Vendor delays. The prime contarctor (Everson-Tesla) has experienced additional delays in their scope of work. Difficulties with coil winding have delayed the delivery molestones furthe.r These delays have pushed the projected delivery of the Inner PF coils to late-June and have placed this job within weeks of the critical path

Corrective Action:

The cost variance cannot be corrected. Everson-Tesla has since cancelled the contract with their suc-contractor Val-Fab and has placed the contract with Precision Boring to complete the coil winding structures. We are working closely with Everson Tesla toward a plan that minimizes further delays.

Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):

Re-design of all 3 PF coil structures and additional copper costs have led to a cost variance in this Control Account. The designs have been completed, and the coils and structures are in fabrication. Issues with the sub-contractor have resulted in several month delay in delivery. It appears that Everson-Tesla's selection of a replacement vendor for the structures has gotten the project back on forward motion. Delivery of the first two PF coil (PF-1b set) was complete by late February. We are working with the prime Vendor to expedite the delivery of the remaining coils

Prepared by: Steve Raftopoulos — Digitally signed by Steve Raftopoulos DN: cn=Steve Raftopoulos, o, ou, email=sraftopo@pppl.gov, c=US Date: 2014.05.16 15:07:34 -04'00'

Date:

Approved by: Ron Strykowsky — Digitally signed by Ron Strykowsky DN: cn=Ron Strykowsky, o, ou=PPPL, email=rstrykow@pppl.gov, c=US Date: 2014.05.27 15:23:00 -04'00'

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