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) 2012 / 06 / 01
b. LOCATION (Address and ZIP Code) Princeton, New Jersey	b. NUMBER DE-AC02-09CH11466		b. PHASE CD-3		b. TO (YYYYMMDD) 2012 / 06 / 30
	c. TYPE M&O	d. SHARE RATIO	c. EVMS ACCEPTANCE No X Yes (YYYYMMDI 2011 / 12 / 20		

5. Evaluation

1.4 / 4500 MPTS VV Modification

	Budget	Earned	Actuals	SV in $	SV in %	CV in $	CV in %	SPI	CPI
Current:	1	24	39	23	2593%	-14	-60%	26.93	0.63
Cumulative:	818	677	942	-141	-17%	-265	-39%	0.83	0.72
	BAC	**EAC**	**VAC in $**	**VAC in %**	**TCPI to BAC**	**TCPI to EAC**			
At Complete:	949	1,291	-342	-36%	37.40	0.78			

Explanation of Variance/Description of Problem:
The variance and description of problem remains the same as defined in the April 2012 version. The current variance includes the initial stage of fabrication. The Bay L drawings are completed and Bay FG in the approval phase.The FG drawing last comments need incorporation however the designer is on vacation until mid August. The design a fixture for the brazing step and eventual welding of diagnostic ports on the Bay L cap is in a subcontract machine shop and close to completion. The design of a vertically adjustable fixture to support the Bay L cap during installation was started. In respones to a chit an to accommodate adding a molybdenum shell to the internal stiffeners an analysis was completed to determine the loads on threaded holes added to the design.

Impact:
The impact is added cost and possibly an extended period to installation completion.

Corrective Action:
Place more machine shop work with subcontract shops to obtain a parallel effort.

Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):
The CAD effort was much more costly than anticipated. There are more parts to this job than anticipated requiring much more effort to design. The multiple diagnostics added to the cap had to be done low since machining the cap in situ was not an option once a flange design was not feasible. The common cause was a highly constrained design.

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Date: 7/19/2012
Approved by: Ron Strykowsky
Date: Digitally signed by Ron Strykowsky DN: cn=Ron Strykowsky, o, ou=PPPL, email=rstrykow@pppl.gov, c=US Date: 2012.07.31 10:42:29 -04'00'