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

1.1 / 1200 Structures & Supports

	Budget	Earned	Actuals	SV in $	SV in %	CV in $	CV in %	SPI	CPI
Current:	14	73	133	59	433%	-61	-84%	5.33	0.54
Cumulative:	2,309	3,011	3,596	702	30%	-584	-19%	1.30	0.84
	BAC	**EAC**	**VAC in $**	**VAC in %**	**TCPI to BAC**	**TCPI to EAC**			
At Complete:	3,554	4,283	-729	-21%	-	0.79			

Explanation of Variance/Description of Problem:

(1) Analysis, design validation, and documentation efforts were underestimated. Additional man-hours for analysis and design finalization were needed. (2) Some analyses and documentation was incomplete or lacking detail. When resolved these produced design changes requiring significant increased M&S.
(3) Man-hour crossover with title 3 engineering has occurred: (a) due to machine access field data/measurements, (b) Feedback received from vendors/fabrication. These produced design modifications. (4) CAD models and detailed drawings required rework - (a) per PPPL procedures (b) due to model functionality: These required additional designer man-hours. (5) Individuals working on multiple, simultaneous, and unrelated tasks produced rework and efficiency. These required additional engineering and designer man-hours.

Impact:

Cost and schedule variances until the design efforts are completed.

Corrective Action:

Stop all EAEM charges to this account. Complete validation and documentation with minimal support from EAEM group. Were applicable, use conservative judgment and/or prior experience to facilitate design finalization, documentation, and procurements. Ensure all title 3 efforts are clearly defined and charged accordingly. Reduce the number of unrelated activities being worked on.

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

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Date:

Approved by: Ron Strykowsky Digitally signed by Ron Strykowsky DN: cn=Ron Strykowsky, o, ou=PPPL, email=rstrykow@pppl.gov, c=US Date: 2012.07.31 10:46:19 -04'00'

Date: