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 / 07 / 01
b. LOCATION (Address and ZIP Code) Princeton, New Jersey	b. NUMBER DE-AC02-09CH11466		b. PHASE CD-3	b. TO (YYYYMMDD) 2012 / 07 / 31
	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:	7	44	313	37	558%	-269	-617%	6.58	0.14
Cumulative:	2,315	3,055	3,908	739	32%	-854	-28%	1.32	0.78
	BAC	**EAC**	**VAC in $**	**VAC in %**	**TCPI to BAC**	**TCPI to EAC**			
At Complete:	3,554	4,407	-853	-24%	-	1.00			

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. (6) Some components were fabricated on-site vs external vendors. On-site labor rates are often higher resulti

Is this EAC correct? This is the same report as last month while the CV grew by 270k! Please address the EAC.

Ron Strykowsky

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Date: 2012.08.28 12:53:46 -04'00'

Impact:

Cost and schedule variances until design and procurement efforts a

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):

Prepared by: Mark Smith

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Date: 2012.08.16 07:31:31 -04'00'

Date:

Approved by:

Date: