			CONTRACT F	PERFORMAN	ICE REPORT			FORM APPROVED
			FORMAT 5 - Expla	nations and	Problem Analysis			OMB No. 0704-0188
1. CONTRACTOR	2. CONTRAC	т	3. PROGRAM					4. REPORT PERIOD
a. NAME	a. NAME	<u> </u>	a. NAME		<u>-</u>			a. FROM (YYYYMMDD)
Princeton University-Plasma Physics Lab	DOE-SC-OFES-	NSTX Upgrade	NSTX Upgrade Proje	ct				
b. LOCATION (Address and ZIP Code)	b. NUMBER	<u> </u>	b. PHASE		•			2012 / 01 / 01
Princeton, New Jersey	DE-AC02-09CH	111466	CD-3					b. TO (YYYYMMDD)
	c. TYPE	d. SHARE RATIO	c. EVMS ACCEPTA	NCE				
	M&O			No	X	Yes	(YYYYMMDI 2011/12/2	0 2012 / 01 / 31
5. Evaluation								
2475 2nd NBI Controls (Cropper)		·			<u>-</u>			
	Budget	Earned	Actuals	SV in Ś	SV in %	CV in S	CV in % SPI	ICPI

248 705 457 Cumulative: 612 184% 13% 2.84 1.15

Explanation of Variance/Description of Problem:

Variance due to accelerated schedule. Tasks started ahead of baseline schedule.

Impact:

Jop will complete ahead of baseline schedule.

Corrective Action:

None

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

Variance will be corrected as the baseline schedula catches up to accelerated schedule.

Prepared by:

Mark B. Cropper

Digitally signed by Mark B. Cropper DN: cn=Mark B, Cropper, o=Princeton Plasma Physics Lab, ou=NSTX Neutral Beam, email=mcropper@pppl.gov, c=US Date: 2012.02.16 07:19-42-05'00'

Date:

Approved by:

CONTRACT PERFORMANCE REPORT FORM APPROVED **FORMAT 5 - Explanations and Problem Analysis** OMB No. 0704-0188 CONTRACTOR 2. CONTRACT 3. PROGRAM 4. REPORT PERIOD a. NAME a. NAME a. NAME a. FROM (YYYYMMDD) Princeton University-Plasma Physics Lab DOE-SC-OFES-NSTX Upgrade NSTX Upgrade Project b. LOCATION (Address and ZIP Code) b. NUMBER b. PHASE 2012 / 01 / 01 Princeton, New Jersey DE-AC02-09CH11466 CD-3 b. TO (YYYYMMDD) d. SHARE RATIO c. EVMS ACCEPTANCE c. TYPE 0&M No Х Yes (YYYYMMDI 2011 / 12 / 20 2012/01/31 5. Evaluation 2490 NTC Equipment Relocations (Perry) Budget Earned Actuals SV in \$ SV in % CV in \$ CV in % SPI CPI Cumulative: 583 1,134 854 551 95% 280 25% 1.95 1.33

Explanation of Variance/Description of Problem:

Removals are being performed at an accelerated rate while the field crews wait for the new coil supports to be designed and fabricated.

Impact:

Increased schdule contingency for field work.

Corrective Action:

None required.

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

Removals are being performed at an accelerated rate while the field crews wait for the new coil supports to be designed and fabricated. No corrective action is require 🕊 nce this will just increase the schedular coontingency for the field work.

Prepared by:

Erik D. Perry

Digitally signed by Erik D. Perry

DiscreErik D. Perry, o, ou,
email=eperry@pppl.gov, c=US
Date: 2012.02.09 10:56:32-05'00'

Date:

Approved by:

Date:

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				PERFORMANCE R						FORM APPROVED
			, 	anations and Prob	olem Analysis					OMB No. 0704-0188
L. CONTRACTOR	2. CONTRACT		3. PROGRAM							4. REPORT PERIOD
a. NAME	a. NAME		a. NAME							a. FROM (YYYYMMDD)
Princeton University-Plasma Physics Lab	DOE-SC-OFES-N	ISTX Upgrade	NSTX Upgrade Proj	ect						
b. LOCATION (Address and ZIP Code)	b. NUMBER		b. PHASE							2012 / 01 / 01
Princeton, New Jersey	DE-AC02-09CH:	11466	CD-3							b. TO (YYYYMMDD)
	c. TYPE	d. SHARE RATIO	c. EVMS ACCEPT	ANCE						
	м&о			No	x	Yes	(YYYY)	MMDI 20	011 / 12 / 20	2012 / 01 / 31
5. Evaluation										
3200 Water Cooling System Mods (D	Denault)									
	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in S	% SPI		СРІ
Cumulative:	_	74 68	3	7 -6	-8%	%	32	46%	0.92	1.87
I mpact: Other than the cost savings to the project th	ere are no impac	:ts.				A				
Corrective Action: No corrective action required at this time.										
Monthly Summary (to include technica A positive cost variance has been realized du				is required at this tir	ne.			\~		
Prepared by: MARTIN DENAU	DN: cn=MARTIN	i by MARTIN DENAULT N DENAULT, o=PPPL, email=mdenault@pppl.gov, c=US 3 07:45:59 -05'00'	Date:		Approved by:	Went	17/201	Date:		

Report: CPR Format 5 NSTXU-NSTXU CPR5

Project: NSTXU-NSTX Upgrade Project

Status Date: 01/31/2012

Date Printed: 02/08/2012 1:11 PM

			CONTRACT	PERFORMANCE RE	PORT		_		FORM APPROVED	
			FORMAT 5 - Expla	anations and Probl	em Analysis			_	OMB No. 0704-01	88
CONTRACTOR	2. CONTRACT		3. PROGRAM	<u>_</u>	-				4. REPORT PERIO	D
. NAME	a. NAME		a. NAME						a. FROM (YYYYM	MDD)
rinceton University-Plasma Physics Lab	DOE-SC-OFES-NSTX	X Upgrade	NSTX Upgrade Proje	ect						
. LOCATION (Address and ZIP Code)	b. NUMBER		b. PHASE						2012 / 01 / 0	1
rinceton, New Jersey	DE-AC02-09CH114	166	CD-3						b. TO (YYYYMMI	OD)
	c. TYPE	d. SHARE RATIO	c. EVMS ACCEPT	ANCE	<u> </u>				1	
	M&O			No	X	Yes	(YYYYMMD	OI 2011 / 12 / 20	2012 / 01 / 3	1
5. Evaluation										
1500 MPTS VV Modification (Labik)						<u> </u>	_	-		
	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %	SPI	CPI	
Cumulative:	697	589	791	1 -107	-159	%	-201 -34%	6 0.85		0.75
This job is behind baseline schedule and ove penifited the global model. Large Pro E mod mpact: The design effort has us behind baseline sch	dels were difficult for	r the computer hardv	ware in use and swite	ching to Windchill ex	xacerabated the problem	costing us weeks of designer time	•		,	
Corrective Action: The labor has been expended on analysis an	nd design and the co	st variance cannot be	e appeciably correct	ed.		A				
Monthly Summary (to include technical Design complexity is very high. The system is assigned to the task on a continuous basis, a	is overconstrained re	equiring a complex re	einforcement of the		•		ere many iterations	required during the	analysis. Analysts we	re
Prepared by: G. Labik			Date: 2/16/12		Approved by:	\mathbb{H}_{a}	λ	Date:		

				PERFORMANCE RE						FORM APPROVED
			FORMAT 5 - Expla	nations and Probl	em Analysis					OMB No. 0704-0188
. CONTRACTOR	2. CONTRACT		3. PROGRAM							4. REPORT PERIOD
. NAME	a. NAME		a. NAME							a. FROM (YYYYMMDD)
rinceton University-Plasma Physics Lab	DOE-SC-OFES-NSTX	Upgrade	NSTX Upgrade Proje	:ct						
. LOCATION (Address and ZIP Code)	b. NUMBER		b. PHASE						l l	2012 / 01 / 01
rinceton, New Jersey	DE-AC02-09CH1146	<u> </u>	CD-3							b. TO (YYYYMMDD)
	c. TYPE	d. SHARE RATIO	c. EVMS ACCEPTA	NCE						
	M&O			No	Χ	Yes		(YYYYMMDI	2011 / 12 / 20	2012 / 01 / 31
. Evaluation		<u> </u>								
3200 CS & Coil Supt Struct Install (Pe	rry)								_	
	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$		CV in %	SPI	CPI
Cumulative:	731	1,108	921	377	52%		187	17%	1.52	1.20
mpact: None										
Corrective Action:										
None required										
Monthly Summary (to include technical Removal procedures being combined (fewer	-	•	• •	nore quickly than es	timated.		17/2/			
Prepared by: Erik D. Per	Digitally signed by DN: cn=Erik D. Per email=eperry@pp Date: 2012.02.09 1	r Erik D. Perry Ty, o, ou, pl.gov, c=US 10:55:18 -05'00'	Date:		Approved bγ:	W n	(11		Date:	ļ

					TOODT.				
				PERFORMANCE RE					FORM APPROVED
			FORMAT 5 - Expla	nations and Probl	em Analysis				OMB No. 0704-0188
L. CONTRACTOR	2. CONTRACT		3. PROGRAM						4. REPORT PERIOD
a. NAME	a. NAME		a. NAME						a. FROM (YYYYMMDD)
Princeton University-Plasma Physics Lab	DOE-SC-OFES-NST	(Upgrade	NSTX Upgrade Proje	ct					
o. LOCATION (Address and ZIP Code)	b. NUMBER		b. PHASE						2012 / 01 / 01
Princeton, New Jersey	DE-AC02-09CH114	66	CD-3						b. TO (YYYYMMDD)
	c. TYPE	d. SHARE RATIO	c. EVMS ACCEPTA	NCE		-			
	М&О		_	No	x	Yes	(YYYYMMDI	2011 / 12 / 20	2012 / 01 / 31
5. Evaluation	_	_							
8210 Field Supervision & Oversight (Perry)								
	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %SP	1	CPI
Cumulative:	281	281	187	0	0%	9	4 34%	1.00	1.50
Impact: None				•					
Corrective Action: None required.									
Monthly Summary (to include technical Work planning not costing as much as antici	•	•	• •	re preparation.)\^		
Prepared by: Erik D. Per	Digitally signed b DN: cn=Erik D. Pe email=eperry@pp Date: 2012.02.09	y Erik D. Perry rry, o, ou, opl.gov, c=US 10:56:08 -05'00'	Date:		Approved by:	No all INI		ate:	

M. Smith

Project: **NSTXU**-NSTX Upgrade Project Status Date: 01/31/2012

			CONTRACT	PERFORMANO	CE REPORT					FORM APPROV	ED ED
			FORMAT 5 - Expla	nations and F	roblem Analysis					OMB No. 0704-	0188
1. CONTRACTOR	2. CONTRACT		3. PROGRAM							4. REPORT PER	IOD
a. NAME	a. NAME		a. NAME			<u> </u>				a. FROM (YYYY	YMMDD)
Princeton University-Plasma Physics Lab	DOE-SC-OFES-NST	X Upgrade	NSTX Upgrade Proje	:ct]	
b. LOCATION (Address and ZIP Code)	b. NUMBER		b. PHASE							2012 / 01	/01
Princeton, New Jersey	DE-AC02-09CH114	,66	CD-3							b. TO (YYYYM	MDD)
	c. TYPE	d. SHARE RATIO	c. EVMS ACCEPTA	ANCE	·]	1
	М&О			No	Х	Yes		(YYYYMMD	2011/12/20	2012/01	/ 31
5. Evaluation											
1200 Structures & Supports (Smith)											
	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$		CV in %	SPI	СРІ	
Cumulative:	2,293	2,300	2,875		7	0%	-575	-25%	1.00	,	0.80
crossover with title 3 engineering has occurr and detailed drawings required rework - (a) Impact:	per PPPL procedure	es (b) due to model fu	unctionality: these re			•	have produced de	sign modificat	tions.	(3) CAI	D models
CP! to continue same trend until design valid	lation efforts and pi	ocurements are com	ipleted.								
Corrective Action: Stop all EAEM charges to this account. Complete design finalization, documentation, and produced the complete for the compl	olete validation and	documentation with	minimal support fro	om EAEM group	o. Ensure further EAE	THE CAM	re applicable, use	conservative j	judgment and/or pi	rior experience to	facilitate
Monthly Summary (to include technical Underestimation, design validation requiren			• •	ative cost varai	ance on this Control	Account.	(2.16.4.5	7			
Prepared by:			Date:		Approve	ed by: 1 3 1	131000	C	Date:		

2/27/2012

Project: NSTXU-NSTX Upgrade Project

Status Date: 01/31/2012

			CONTRACT P	PERFORMANCE R	EPORT				FORM APPROVED
			FORMAT 5 - Explai	nations and Prob	lem Analysis				OMB No. 0704-0188
CONTRACTOR	2. CONTRACT		3. PROGRAM						4. REPORT PERIOD
. NAME	a. NAME		a. NAME		•				a. FROM (YYYYMMDD)
rinceton University-Plasma Physics Lab	DOE-SC-OFES-NST	(Upgrade	NSTX Upgrade Proje	ct					
. LOCATION (Address and ZIP Code)	b. NUMBER	·	b. PHASE					=	2012 / 01 / 01
rinceton, New Jersey	DE-AC02-09CH114	66	CD-3						b. TO (YYYYMMDD)
	c. TYPE	d. SHARE RATIO	c. EVMS ACCEPTA	NCE					
	М&О			No	X	Yes	(YYYYMMDI	2011 / 12 / 20	2012 / 01 / 31
i. Evaluation		·		_					
5200 DCPS (Hatcher)						<u>-</u>			
-	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %	SPI	CPI
Current:	53	9	38	-44	-83%	-29	-331%	0.17	0.23
Cumulative:	610	476	469	-134	-22%	7	2%	0.78	1.02
	BAC	EAC	VAC in \$	VAC in %	TCPI to BAC	TCPI to EAC		-	
At Complete:	2,493	2,480	14	1%	1.00	1.00			
Explanation of Variance/Description of The DCPS project went through a series of chapter in the DCPS project went through a series of chapter in the FDR may slip, but at present we are attended in the EDR may slip, but at a present we are attended in the EDR may slip, but at a present we are attended in the EDR may slip, but at a present we are attended in the EDR may slip, but at a present we are attended in the EDR may slip, but at a present we are attended in the EDR may slip, but at a present we are attended in the EDR may slip, but at a present we are attended in the EDR may slip, but at a present we are attended in the EDR may slip, but at a present we are attended in the EDR may slip, but at a present we are attended in the EDR may slip, but at a present we are attended in the EDR may slip, but at a present we are attended in the E	nanges initiated by l	he original FDR date.	Other dates will be	determined by the	new execution plan.	A			
Monthly Summary (to include technical The DCPS project has been re-scoped with the pergies to the updated tasks and scope. Prepared by:	•	ts document approve		ary 2012. We are o	urrently formulating a new Approved by:	planto cover the new scope. Individua	_		ng asked to refocus their

2/27/2012

Ronald Hatcher

_			CONTRACT F	PERFORMANCE R	EPORT			FORM APPROVED
			FORMAT 5 - Expla	nations and Prob	lem Analysis			OMB No. 0704-0188
CONTRACTOR	2. CONTRACT	,	3. PROGRAM					4. REPORT PERIOD
. NAME	a. NAME		a. NAME		•			a. FROM (YYYYMMDD)
Princeton University-Plasma Physics Lab	DOE-SC-OFES-NSTX	Upgrade	NSTX Upgrade Projec	ct				
LOCATION (Address and ZIP Code)	b. NUMBER	•	b. PHASE			_		2012 / 01 / 01
Princeton, New Jersey	DE-AC02-09CH1146	56	CD-3					b. TO (YYYYMMDD)
	c. TYPE	d. SHARE RATIO	c. EVMS ACCEPTA	NCE				
	M&0			No	X	Yes	(YYYYMMDI 2011 / 12 / 20	2012 / 01 / 31
5. Evaluation								
7100 Project Management & Integrat	tion (Strykowsky	')			<u> </u>			
	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in % SPI	CPI
`umulative:	2 617	2.617	2.027		00/	211	130/ 1.00	0.00

- Lee : : ejeet :::a::age:::e :: : : : : : : : : : : : : : : :	are to an internet	<u> </u>							
	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %	SPI	CPI
Cumulative:	2,617	2,617	2,927	0	0%	-311	-12%	1.00	0.89
	BAC	EAC	VAC	VAC in %					
At Complete:	5,809	7,290	-1,481	-25%					

Explanation of Variance/Description of Problem:

Cost variance to date is forecast to continue which could manifest into a 25% overun in budget. There are 2 major drivers; #1) to support efficient field operation the work control center has and will continue to require an additional 2 fte's per year to prepare and review job package, procedures, and coordinate work. These people are primarily senior lab and shop (Joe Winston and Frank Jones). Additionally, a parts expeditor was added (Steve DePasqual) to ensure time delivery of parts to the field crews. #2) The efforts to prepare for and maintain EVMS certification has required and will continue to need an additional 1.7 FTE of project controls staff (Steve Langish and Orlando Guzman).

This EAC assume the project will be completed six months earlier than planned. Should the project stretch out project cost would grow by \$54k/month

Corrective Action:

Continue to look for opportunities to reduce WCC and Project control staff. Once the CS fabrication tasks begig I look to partially re-assign staff to support that effort. Consider updating the PMB to reflect the current staffing by applying contingency.

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

Work Control Center support and continued support of EVMS have led to a negative cost variance.

Prepared by: R.L.Strykowsky Date: 2/24/2012 Approved by: Mike Williams

Digitally signed by Mike Williams

DN: Mar Williams, o=PPPL, ou=Engineering
and Infrastructure, email=williams@pppl.gov, c=US

Date: 2012.02.28 08:45:14 -05'00'