Project: NSTXU-NSTX Upgrade Project Status Date: 12/31/2011

	-		CONTRACT	PERFORMANCE	REPORT	<del></del>			FORM APPROVED
			FORMAT 5 - Expla	anations and Pr	oblem Analysis	_			OMB No. 0704-0188
1. 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	X Upgrade	NSTX Upgrade Proj	ect					
b. LOCATION (Address and ZIP Code)	b. NUMBER		b. PHASE						2011 / 12 / 01
Princeton, New Jersey	DE-AC02-09CH114	166	CD-3						b. TO (YYYYMMDD)
	c. TYPE	d. SHARE RATIO	c. EVMS ACCEPT	ANCE	,				
	M&O			No	X	Yes	(YYYYMMD	01 2011 / 12 / 20	2011 / 12 / 31
5. Evaluation	-								
2475 2nd NBI Controls (Cropper)							_		
	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %	SPI	CPI

	Budget	Earned		- · · · · · · · · ·	SV in %	CV in \$	CV in %	SPI	CPI
Cumulative:	248	674	53:	1. 1. 10	Profesional Party		3 21%	2.71	1.27

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

Div. on=Mark B. Cropper, o=Princeton
Plasma Physics Lab, ou=NSTX Neutral
Plasma Physics Lab, ou=NSTX Neutral
Date: 2012.01.17 10:42:46-05'00'

Date: 2012.01.17 10:42:46-05'00'

Date:

Approved by:

and Problem Analysis

Project: **NSTXU**-NSTX Upgrade Project Status Date: 12/31/2011

			CLASSIFICA	TION (When Fille	ed <u>In)</u>					
			CONTRACT P	ERFORMANCE RI	EPORT				FORM APPROVED	
			FORMAT 5 - Explan	ations and Probl	lem Analysis				OMB No. 0704-0188	
1. CONTRACTOR	2. CONTRACT		3. PROGRAM						4. REPORT PERIOD	
a. NAME	a. NAME		a. NAME			<del></del>	_		a. FROM (YYYYMMDD)	
Princeton University-Plasma Physics Lab	DOE-SC-OFES-NST	X Upgrade	NSTX Upgrade Projec	et						
b. LOCATION (Address and ZIP Code)	b. NUMBER		b. PHASE		<u></u>				2011 / 12 / 01	
Princeton, New Jersey	DE-AC02-09CH114	66	CD-3						b. TO (YYYYMMDD)	
	c. TYPE	d. SHARE RATIO	c. EVMS ACCEPTA	NCE	·	<del></del>				
	м&о			No	Χ	Yes	(YYYYMMDI	2011 / 12 / 20	2011 / 12 / 31	
5. Evaluation										
2490 NTC Equipment Relocations (P	erry)					_				
	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in % SP	ય	CPI	
Cumulative:	481	989	766	508	1064	22	3 23%	2.06		1.29

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.

(c) Deltek, inc.

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 required since this will just increase the schedular coontingency for the field work.

Prepared by:

Date:

1/18/12

Approved by:

3 of 3 Date Printed: 01/17/2012 8:51 AM

and Problem Analysis

Project: NSTXU-NSTX Upgrade Project Status Date: 12/31/2011

	_		CONTRACT PERFO	DRMANCE	REPORT				FORM APPROVED
			FORMAT 5 - Explanation	ns and Pro	blem Analysis				OMB No. 0704-0188
1. CONTRACTOR	2. CONTRACT		3. PROGRAM						4. REPORT PERIOD
a. NAME	a. NAME		a. NAME	-		<u> </u>			a. FROM (YYYYMMDD)
Princeton University-Plasma Physics Lab	DOE-SC-OFES-N	ISTX Upgrade	NSTX Upgrade Project						
b. LOCATION (Address and ZIP Code)	b. NUMBER		b. PHASE	-	-				2011 / 12 / 01
Princeton, New Jersey	DE-AC02-09CH:	11466	CD-3						b. TO (YYYYMMDD)
	c. TYPE	d. SHARE RATIO	c. EVMS ACCEPTANCE		-		<del></del>		1
	M&O		No		X	Yes	(YYYYMMDI	2011 / 12 / 20	2011 / 12 / 31
5. Evaluation									
3200 Water Cooling System Mods (I	Denault)				-			_	<del></del>

SEOD Water Cooling System Wood (De	<u>cnuaitj</u>								
	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %	SPI	СРІ
Cumulative:	74	68	37	-6	-8%			a 114.	1.87

Explanation of Variance/Description of Problem:

Positive cost variance due the fact that the original design assumed replacement of water pumps; however, pump replacement was not necessary which led to less time being required for design.

Other than the cost savings to the project there are no impacts.

Corrective Action:

No corrective action required at this time.

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

A positive cost variance has been realized due to savings in system design. There are no corrective actions required at this time.

Prepared by: MARTIN DENAULT

Digitally signed by MARTIN DENAULT

Discrim-MARTIN DENAULT, 0=PPPL

Out=WELDING, email=midenault@pppl.gov, c=US

Date: 2012.01.23 13:24:18-0500'

Date: 2012.01.23 13:24:18-0500'

Approved by:

Project: NSTXU-NSTX Upgrade Project Status Date: 12/31/2011

and Problem Analysis

			C	LASSIFICATION (When F	illed In)				
		'	co	NTRACT PERFORMANCE	E REPORT			FORM APPROVED	
			FORMAT	5 - Explanations and Pr	oblem Analysis			OMB No. 0704-0188	
L. CONTRACTOR	2. CONTRACT		3. PROG	RAM			<del></del>	4. REPORT PERIOD	
. NAME	a. NAME		a. NAMI	-				a. FROM (YYYYMMDD)	
Princeton University-Plasma Physics Lab	DOE-SC-OFES-NST	X Upgrade	NSTX Upg	rade Project					
. LOCATION (Address and ZIP Code)	b. NUMBER		b. PHAS	E				2011 / 12 / 01	
Princeton, New Jersey	DE-AC02-09CH114	466	CD-3					b. TO (YYYYMMDD)	
	c. TYPE	d. SHARE RATIO	c. EVMS	ACCEPTANCE		<del>-</del>		7	
	м&о		ļ	No	X	Yes	(YYYYMMDI 2011 / 12 / 1	2011/12/31	
5. Evaluation	·	-		<del>.</del>					
8200 CS & Coil Supt Struct Install (Pe	erry)		4-	_					
	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in % SPI	СРІ	
Cumulative:	569	869		655			(25%) 1.	53	1.33
Removal procedures being combined (fewer Impact: None	to prepare and rev	new, and neid remov	ais being c	ompleted more quickly ma	m estimateu.	^			
Corrective Action: None required									
Monthly Summary (to include technical Removal procedures being combined (fewer					an estimated.				
Prepared by:			Date:	1/18/12	Approve	d by:	Date:		

Toport. Crit tottilat 3-cost i enormance Report i ormat 3 - Explanati

Project: **NSTXU-**NSTX Upgrade Project Status Date: 12/31/2011

and Problem Analysis

			CONTR	ACT PERFORMA	NCE REPORT				FORM APPROVED	
					Problem Analysis				OMB No. 0704-0188	
L. CONTRACTOR	2. CONTRACT	-	3. PROGRAM		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				4. REPORT PERIOD	
a. NAME	a. NAME	1=	a. NAME	<u>.                                    </u>			_		a. FROM (YYYYMMDD)	
Princeton University-Plasma Physics Lab	DOE-SC-OFES-NS	STX Upgrade	NSTX Upgrade	Project					(	
b. LOCATION (Address and ZIP Code)	b. NUMBER		b. PHASE		,	<del></del>			2011 / 12 / 01	
Princeton, New Jersey	DE-AC02-09CH1	1466	CD-3						b. TO (YYYYMMDD)	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	c. TYPE	d. SHARE RATIO		CEPTANCE						
	м&о			No	x	Yes	(YYYYMMDI	2011 / 12 / 20	2011 / 12 / 31	
5. Evaluation			-							
8210 Field Supervision & Oversight	(Perry)	<del></del> -								
	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %	PI	CPI	
Communications				JV       J					ICP1	
Cumulative:  Explanation of Variance/Description o  Work planning not costing as much as antic	f Problem:	45 245		145	0	0%	200 23 41%	1.00		
Explanation of Variance/Description o	f Problem:	•		145	0					
Explanation of Variance/Description of Work planning not costing as much as anticompact:	f Problem:	•		145	0					
Explanation of Variance/Description on Work planning not costing as much as anticolors. Impact:	f Problem:	•		145	0					
Explanation of Variance/Description of Work planning not costing as much as anticompact:	f Problem:	•		145	0					
Explanation of Variance/Description of Work planning not costing as much as anticolors.  Impact: None  Corrective Action:	f Problem:	•		145	0					
Explanation of Variance/Description of Work planning not costing as much as anticolors and the second secon	f Problem: ipated during first	months due to time be	eing spent on pr	145 rocedure preparati	0					
Explanation of Variance/Description of Work planning not costing as much as anticolors and the second secon	f Problem: ipated during first	months due to time be	eing spent on pr	145 rocedure preparati	on.					
Explanation of Variance/Description of Work planning not costing as much as anticolors and the second secon	f Problem: ipated during first	months due to time be	eing spent on pr	145 rocedure preparati	on.					
Explanation of Variance/Description of Work planning not costing as much as anticolors and the second secon	f Problem: ipated during first	months due to time be	eing spent on pr	145 rocedure preparati	on.					
Explanation of Variance/Description of Work planning not costing as much as anticolors where the second sec	f Problem: ipated during first	months due to time be	eing spent on pr	145 rocedure preparati	on.		41.8	1.00		
Explanation of Variance/Description of Work planning not costing as much as anticolors and the second secon	f Problem: ipated during first	months due to time be	eing spent on pr	145 rocedure preparati	on.		41.8			