

PROCEDURE: NSTXU-PROC-001 Revision 0

Reviewer Comment Form (Attachment 2)

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NATIO	NAL SPHEKI	CAL TORUS E.	XPERIMENT
	UPGR A	ADE PROJECT	
]	Engineering C	Change Proposal	(ECP)
	C	OVER PAGE	
(TO BE COM	IPLETED BY SYSTI	EMS ENGINEERING S	UPPORT MANAGER)
Originator:		Date: 10/28/2011	
Chrzanowski/Perry	- <u> </u>		
ECP No: 004	ECP 7		
	,	1304 TF procurement	(cost/schedule);
	•	8200 cost ;	
	•	cument schedule acce	• •
		lete several CA2420 ta	sks from scope
		quired Reviewers	(1 1771). P
		zanowski, Erik Perry, N	Mike Williams, Ron
Strykowsky, Steve	Langish, Larry Duc	lek, 11m Stevenson	
	EC	P Approval Level	
Expedited ECP?	Yes No		
Change Level: 2 Fed	eral Project Directo	r	
Approving Official: 2	Project Dis	rector	
		Actions	
		PPROVALS	
(TC) BE COMPLETE	D BY APPROVING O	FFICIALS)
Change Level	Approving	Approval?	Signature

Controlled Document

Official NSTXU Project

> Manager NSTXU

Engineering Lead

NSTXU Federal

Project Director

Associate

Director OFES

Deputy Secretary

of Energy

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(Expedited ECP)

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THIS IS AN UNCONTROLLED DOCUMENT ONCE PRINTED. Check the NSTXU Engineering Web prior to use to assure that this document is current.

X Yes

Yes

Yes

Yes

Yes

No

No

No

No

No

NSTXU

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NATIONAL SPHERICAL TORUS EXPEREIMENT **UPGRADE PROJECT**

Engineering Change Proposal (ECP)				
PART I				
(TO BE COMPLETED BY ORIGINATOR)				
ECP-				
Originator: Date: 10/28/2011				
Chrzanowski/Perry/Cropper				
Overview of Change				
Type of ECP: EXPEDITED STANDARD				
Type of Change: TECHNICAL COST SCHEDULE EDITORIAL				
(Check all that Apply)				
Reason for Change: 1) Update Control Account 1304 for;				
A) to show the actual contract value for the inner TF machining contract				
(S011001-G)				
B) Increase estimate for the TF flex joint based upon a change in the				
manufacturing technique (e.g fabricated soldered laminate TO wire EDM				
manufacture.				
\$ <u>782K</u> contingency drawdown requested.				
2) Update Control Account 8200 for;				
 A) Restructure 8200. Segregate LOE from discrete tasks into accounts 8210 and 8200 respectively. 				
B) Expand detail based upon a bottoms-up re-estimate for CS & Coil Support				
Structure Installation.				
\$ <u>1,182K</u> contingency drawdown requested.				
3) Reflect recent DOE approval to begin outage removal tasks				
Early removal of diagnostic, RF lines, installation of platforms accelerated (see task				
list and email from DOE authorizing work in advance of CD-3).				
\$(3K) contingency -drawdown requested. For CA2490 due to accel.				
\$(2K) contingency -drawdown requested. For CA8250 due to accel.				
4) Remove four tasks from Control Account 2420 . Tasks are no longer required.				
2420-0160 Refurbish Source A BAC= \$303,983.79				
2420-0170 Refurbish Source B BAC= \$303,983.79				
2420-0180 Refurbish Source C BAC= \$303,983.79				
2420-0200 Build Probe tips BAC= \$75,669.68				
\$ <u>(995k)</u> contingency -drawdown requested.				



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Impacted WBS Elements:
1.1 (1304) 1.2 (2420,2490) 1.8 (8200/8210, 8250)
Impacts of Change (Briefly Describe):
No impact to Level I, II, or III milestones or critical path
Does this Change Impact Material Already Procured or Parts/Assemblies Already Assembled/Manufactured using this Material: Yes No
If "Yes", what is the recommended disposition of this material/part/assembly?
Assessment of Other Options:



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NATIONAL SPHERICAL TORUS UPGRADE PROJECT Engineering Change Proposal (ECP)

PART I (TO BE COMPLETED BY ORIGINATOR)

Originator:

Date: 10/28/2011

Chrzanowski/Perry/Cropper

Detailed Description of the Change:

(Use Continuation Sheets and/or Attach Information/Sketches, As Needed)

List Attachments, Impacted Documents, etc.

Initial NSTX-U Baseline P3 schedule / Cobra baseline schedule AND Updated P3 schedule/Cobra Schedule

Approval email from DOE for early start of outage & list of accelerated tasks

Description of Change:

Control Account	Pre (\$K)	Post (\$K)	Contingency Delta (\$K)
1304	2595	3377	782
2420	1094	99	-995
2490	3618	3615	-3
8200	6474	5929	-545
8210	0	1727	1727
8250	1174	1171	-2*
		Total	964

*roundoff

- 1) Update Control Account 1304 for;
 - A) to show the actual contract value for the inner TF machining contract (S011001-G)
 - B) Increase estimate for the TF flex joint based upon a change in the manufacturing technique (e.g fabricated soldered laminate TO wire EDM manufacture.

\$782K contingency drawdown requested.

- 2) Update Control Account 8200 for;
 - A) Restructure 8200. Segregate LOE from discrete tasks into accounts 8210 and 8200 respectively.
 - B) Expand detail based upon a bottoms-up re-estimate for CS & Coil Support Structure Installation.

\$1,182K contingency drawdown requested.

3) Reflect recent DOE approval to begin outage removal tasks
Early removal of diagnostic, RF lines, installation of platforms accelerated (see task
list and email from DOE authorizing work in advance of CD-3).

\$(3K) contingency -drawdown requested. For CA2490 due to accel.

\$(2K) contingency -drawdown requested. For CA8250 due to accel.



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4) Remove four tasks from Control Account **2420**. Tasks are no longer required.

2420-0160 Refurbish Source A BAC= \$303,983.79

2420-0170 Refurbish Source B BAC= \$303,983.79

2420-0180 Refurbish Source C BAC= \$303,983.79

2420-0200 Build Probe tips BAC= \$75,669.68

\$(995k) contingency -drawdown requested.



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Reviewer Comment Guidelines

Reviewers will complete a reviewer comment sheet (either using the Part II form included in this procedure or in any other acceptable format such as e-mail, word, etc.). The reviewer comment sheet shall contain at a minimum the following information:

- ECP Number and Title;
- Reviewer Name;
- Indications on whether or not corrections needed and the specific modifications/corrections needed (e.g., additional reviewers, correction to impact statements, modifications to the ECP to include other impacted documents, etc.);
- Whether or not the reviewer concurs in the ECP without comment or concurrence if recommended modifications/corrections are made.

This information should be submitted to the Systems Engineering Support Manager who will tally all the comments and attempt to reach a resolution with the ECP initiator.

A sample Part II of the ECP form is follows in this attachment if the reviewer opts to utilize it.



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NATIONAL SPHERICAL TORUS UPGRADE PROJECT

Engineering Change Proposal (ECP) PART II (TO BE COMPLETED BY REVIEWERS) ECP No: 004 ECP Title: 1) CA 1304 TF procurement (cost/schedule); 2) CA 8200 cost; 3) Document schedule acceleration approval
4) Delete several CA2420 tasks from scope Reviewer:
Corrections Needed? Yes No If yes, identify corrections needed:
Concur? Yes □ No Provide reasons for concurrence/rejection:
Other Recommendations?
NOTE: Forward completed Part II to Systems Engineering Support Manager via e-mail indicating that your review is completed.