

NATIONAL SPHERICAL TORUS EXPERIMENT UPGRADE PROJECT

Engineering Change Proposal (ECP)

Part I To be Completed by Originator

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ECP-031

COVER PAGE

Originator (CAM) Atnafu, Cropper, Perry

Date Submitted 5/17/2012

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ECP No. 031

ECP Title CA: 1002 Add drafting support
CA: 2440 Delete tasks for exit spool piece
CA: 2490 Add drafting support and tasks for
locating TMP rack on 119' platform

Required Reviewers
(Change Control Board)

☐ Williams ☒ Strykowski ☒ Langish
☐ Dudek ☐ Other...
☐ Stevenson

Change Level 2 Federal Project Director

Approvals

Change Level	Approving Official	Approval	Signature
3	NSTXU Project Manager	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3a Expedited ECP	NSTXU Engineering Lead	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2	NSTXU Federal Project Dir.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
1	Associated Director OFES	<input type="checkbox"/> Yes <input type="checkbox"/> No	
0	Deputy Secretary of Energy	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Approval Date

Primavera Updated ☐
Cobra Updated ☐
WAD Updated ☐
RAM Updated ☐

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PART I

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Type of ECP ☒ Standard ☐ Expedited

Type of Change (Check all that apply) ☐ Technical ☒ Cost ☒ Schedule ☐ Editorial ☐ Other

Reason for Change CA 1002: Add additional drafting support
CA 2440: Remove tasks for exit spool piece. A new spool piece is being fabricated in CA 2480.
CA:2490: Add task for drafting support and tasks to install new rack to support TMP's

Impacted WBS Elements ☒ 1.1 ☐ Milestone
☒ 1.2 ☐ Other...
☐ 1.3
☐ 1.4
☐ 1.5
☐ 1.6
☐ 1.7
☐ 1.8
☐ PEP

Control Accounts ☐ 1000 ☐ 1306 ☐ 2470 ☐ 5000 ☐ 8200
☐ 1001 ☐ 1307 ☐ 2475 ☐ 5200 ☐ 8210
☒ 1002 ☐ 1310 ☐ 2480 ☐ 5501 ☐ 8250
☐ 1200 ☐ 2300 ☐ 2485 ☐ 6100 ☐ Other...
☐ 1300 ☐ 2420 ☒ 2490 ☐ 7200
☐ 1301 ☐ 2425 ☐ 3200 ☐ 7300
☐ 1302 ☐ 2430 ☐ 3300 ☐ 7400
☐ 1303 ☒ 2440 ☐ 3400 ☐ 7100
☐ 1304 ☐ 2450 ☐ 4100 ☐ 7710
☐ 1305 ☐ 2460 ☐ 4500 ☐ 7900

Impacts of Change (Briefly Describe) Cost/schedule impacts. No impact to Critical Path

Impact on Materials Parts Already Manuf. ☐ Yes ☒ No

If yes, what is recommended disposition

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Detailed Description of Change

Description of Change CA 1002: Add task for additional drafting support (As-builts), 100 hrs. (see attached schedule)
Add: \$13,986.00

CA 2440: Delete tasks associated with the exit spool pieces. The spool piece is being fabricated using available budget in Control Account 2480.

Delete 2440-0007 \$6,600

Delete 2440-0015 \$35,451.20

Delete 2440-0026 \$178,598.40

Delete: \$220,649.60

CA 2490: Add task for re-drawing of vacuum, GDC, gas systems, 65 hrs. (see attached schedule) \$8766.72

Add tasks for installation of rack on 119' platform to support TMP's. Original plan had rack outside TC. Manufacturer not comfortable with cabling distance.

Add TMP rack on 119' platform - Design: \$10,958.40

Add TPM rack on 119' platform - Install: \$24,448.50

Add: \$44,173.62

Net contingency delta: -\$162,489.98

Submitted by:

Reviewed by:

Erik Perry

Larry Dudek

Neway Atnafu

Tim Stevenson

Mark Cropper

SUBMIT ECP

Do not fill in information below this point

List of Attachments ☐ Primavera Schedule (Before/After) ☐ Cobra (Before/After) ☐ Other...

Activity ID	Activity Name	Original Duration	Activity % Complete	Start	Finish	BL1 Finish	Budgeted Total Cost	Total Float	evms rule																							
										2012			2013				2014				2015											
										J	J	S	N	J	F	A	J	J	A	S	N	J	F	A	J	J	A	D	J	J	J	A
Total		330		07-May-12	30-Aug-13	30-Aug-13	(\$162,489.98)	2090																								
Job: 1002 -Passive Plate Analyss &Upgrade-AT...		40		08-Jul-13	30-Aug-13	30-Aug-13	\$13,986.00	2090																								
No group		40		08-Jul-13	30-Aug-13	30-Aug-13	\$13,986.00	2090																								
PP Passive Plate Reinforcement - Neway At...		40		08-Jul-13	30-Aug-13	30-Aug-13	\$13,986.00	2090																								
1002-0025N	Additional drafting support (As-Builts)	40	0%	08-Jul-13	30-Aug-13	30-Aug-13	\$13,986.00	2090	E																							
Job: 2440 - 2nd NBI Beamline-CROPPER		98		14-Dec-12	09-May-13	09-May-13	(\$220,649.60)	2090																								
Re-Installation		98		14-Dec-12	09-May-13	09-May-13	(\$220,649.60)	2090																								
No DISC		98		14-Dec-12	09-May-13	09-May-13	(\$220,649.60)	2090																								
2440-0015	Exit spool piece TC wiring (refurb & relocate)	98	0%	14-Dec-12	09-May-13	09-May-13	(\$35,451.20)	2090	E																							
2440-0007	Exit spool piece parts	90	0%	04-Jan-13	09-May-13	09-May-13	(\$6,600.00)	2090	E																							
2440-0026	Refurbish spool piece	20	0%	12-Apr-13	09-May-13	09-May-13	(\$178,598.40)	2090	E																							
Job: 2490 - NTC Equipt Relocations-PERRY		122		07-May-12	26-Oct-12	26-Oct-12	\$44,173.62	2090																								
Re-Installation		122		07-May-12	26-Oct-12	26-Oct-12	\$44,173.62	2090																								
IN Installation		122		07-May-12	26-Oct-12	26-Oct-12	\$44,173.62	2090																								
24912000A	ACAD redraw of vacuum, gas, GDC systems	58	0%	07-May-12	27-Jul-12	27-Jul-12	\$8,766.72	2090	C																							
24912000B	Add TMP rack on 119' platform - Design	58	0%	07-May-12	27-Jul-12	27-Jul-12	\$10,958.40	2090	C																							
24912000C	Add TMP rack on 119' platform - Install	64	0%	30-Jul-12	26-Oct-12	26-Oct-12	\$24,448.50	2090	C																							