

NATIONAL SPHERICAL TORUS EXPERIMENT UPGRADE PROJECT

Engineering Change Proposal (ECP)

Part I To be Completed by Originator

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ECP-062

COVER PAGE

Originator (CAM) Perry

Date Submitted 12/6/2012

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ECP No. 062

ECP Title For Control Account 8200/8210 - add re-work of parts received from other WBS elements. Delete two tasks from Management Job 7300 and one task from Management Job 7200.

Required Reviewers
(Change Control Board)

<input type="checkbox"/> Williams	<input checked="" type="checkbox"/> Langish
<input checked="" type="checkbox"/> Strykowski	<input type="checkbox"/> Other...
<input checked="" type="checkbox"/> Dudek	
<input checked="" type="checkbox"/> 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 12/20/2012

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

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PART I

Originator (CAM) Perry

Date Submitted 12/6/2012

Type of ECP ☒ Standard ☐ Expedited

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

Reason for Change For Control Account 8200/8210 - add re-work of parts received from other WBS elements. Delete two tasks from Management Job 7300 and one task from Management Job 7200.

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) Re-work parts received from other WBS elements as required for installation. This includes fit-ups and measurements as well as re-machining, re-welding, etc.

Impact on Materials Parts Already Manuf. ☒ Yes ☐ No

If yes, what is recommended disposition Re-work as required for installation

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Detailed Description of Change

Description of Change

Description of change: A total of 520 man-days of EMC*-TB and \$60K for consumables over the next 12 months. **This will include, but not be limited to, the following:**

1. Rework vacuum vessel leg mounts to accommodate TF clevis blocks: 120 MD, \$6K
2. Cut down both ends of the outer TF turnbuckles and chase the threads: 9 MD, \$1K
3. Measure bolt holes on umbrella and machine the re-enforcement bars to be installed on both sides of the TF aluminum castings: 12 MD, \$4K
4. Modify threaded rods and bore pockets for barrel nuts on aluminum blocks for TF to umbrella interface: 8 MD, \$2K
5. Restore bakeout heater tubing removed from the vacuum vessel to accommodate the new TF clevis pads:
 - a. Re-install tubing: 45 MD, \$5K
 - b. Make tie-down straps and weld them to vessel: 25 MD, \$1K
 - c. Install thermal transfer paste around tubing: 30 MD, \$7K

A task (8200-0011) currently exists in Control Account 8210. **This task will be moved to Control Account 8200** where these costs are currently charged. This task is currently budgeted for \$61,675.99. This task will be updated to include 4,320 hrs of EM//TB labor over the next 12 months and an additional \$60K of M&S. The task will be split up into twelve (12) tasks. The finish date for final task will be changed to 30 Nov 2013. The revised cost of these tasks will be \$534,261.31 for the twelve tasks. Contingency draw of \$472,585.32.

Delete tasks 7300-23 (\$87,656.00), task 7300-32 (\$87,656), and task 7200-05S (\$56,773.40) all support of OPA reviews which have not required additional labor for 7300 and the 7200 task is scheduled for August of 2014.

Net contingency draw for ECP = \$240,499.92

Submitted by:

Erik Perry

Reviewed by:

Larry Dudek

Tim Stevenson

SUBMIT ECP


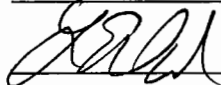
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List of Attachments ☐ Primavera Schedule (Before/After) ☐ Cobra (Before/After) ☐ Other...

Change Control Board/
(ECP-062)

Date: 19 December 2012

Attendees:

<u>Print</u>	<u>Signature</u>
1. S. W. LANGISH	
2. STRYKOWSKI	
3. L. DUOBK	
4. T. STEVENSON	T. Stevenson
5. E. PERRY	E. Perry
6.	
7.	
8.	
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14.	