

NATIONAL SPHERICAL TORUS EXPERIMENT UPGRADE PROJECT

Engineering Change Proposal (ECP)

Part I To be Completed by Originator

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ECP-077

COVER PAGE

Originator (CAM) Perry

Date Submitted 03/14/2013

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ECP No. 077

ECP Title In Control Account 8200 add additional scope for installation of umbrella arch reinforcements which is not included in the existing estimate.

Required Reviewers
(Change Control Board)

<input type="checkbox"/> Williams	<input type="checkbox"/> Langish
<input checked="" type="checkbox"/> Strykowski	<input checked="" type="checkbox"/> Other...
<input checked="" type="checkbox"/> Dudek	
<input 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 3/19/2013

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

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PART I

Originator (CAM) Perry

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Type of ECP ☒ Standard ☐ Expedited

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

Reason for Change In Control Account 8200 add additional scope for installation of umbrella arch reinforcements which is not included in the existing estimate.

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) Add labor and M&S to weld prep and then install upper and lower umbrella arch supports.
12MD EMC*-TB plus \$4.8K M&S to weld prep
20 MD EMT*-TB plus 38 MD EMC*-TB plus \$7.2K M&S to weld in place

Impact on Materials
Parts Already Manuf. ☒ Yes ☐ No

If yes, what is recommended disposition cut into smaller pieces and weld prep prior to installation

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[Detailed Description of Change](#)

**Description
of Change**

Install upper and lower umbrella arch supports (provided by others).

ECP-077 Umbrella Arch Reinforcements

	Days	Hours	Total	M&S	Grand Total	Activity
1) EMC TB	12	96	\$10,006.08	\$4,800.00	\$16,342.08	Weld Prep
2) EMT TB	20	160	\$16,676.80	\$7,200.00	\$26,180.80	Weld in Place
<u>EMC TB</u>	<u>38</u>	<u>304</u>	<u>\$31,685.92</u>		<u>\$31,685.92</u>	<u>Weld in Place</u>
		560	\$53,368.80	\$12,000.00	\$74,208.80	

Item #1 BOE: Machine Tech Estimate, Start: 3/18/2013 Finish: 4/5/2013

Item #2 BOE: Shop Estimate, Start: 5/13/2013 Finish: 6/21/2013

Total contingency draw: **\$74,208.80**

Submitted by:

Erik Perry

Reviewed by:

Larry Dudek

SUBMIT ECP

Do not fill in information below this point

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