

NATIONAL SPHERICAL TORUS EXPERIMENT UPGRADE PROJECT

Engineering Change Proposal (ECP)

Part I To be Completed by Originator

[Main Menu](#)[Log](#)[Print PDF](#)

ECP-088

COVER PAGE

Originator (CAM) Smith

Date Submitted 6/10/2013

[Top](#)

ECP No. 088

ECP Title In Control Account 1200: Require high strength hardware for all Umbrella Upper/Lower Lid Connections requiring and increase in M&S for these tasks.

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 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 6/18/13

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

NATIONAL SPHERICAL TORUS EXPERIMENT UPGRADE PROJECT

Engineering Change Proposal (ECP)

Part I To be Completed by Originator

[Main Menu](#)[Log](#)[Print PDF](#)

ECP-088

PART I

Originator (CAM) Smith

Date Submitted 6/10/2013

Type of ECP ☒ Standard ☐ Expedited

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

Reason for Change In Control Account 1200: Require high strength hardware for all Umbrella Upper/Lower Lid Connections requiring and increase in M&S for these tasks.

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 Increased M&S cost of \$13K.
(Briefly Describe)

Impact on Materials Parts Already Manuf. ☐ Yes ☒ No

If yes, what is recommended disposition

**NATIONAL SPHERICAL TORUS EXPERIMENT
UPGRADE PROJECT**

Engineering Change Proposal (ECP)

Part I To be Completed by Originator

[Main Menu](#)

[Log](#)

[Print PDF](#)

ECP-088

[Detailed Description of Change](#)

**Description
of Change**

Require the use of high strength fasteners for all of the umbrella lower lid connections. These connections include the lower lid to umbrella, the lower lid to pedestal, and the Lower lid-lid connections. Increase M&S cost of \$10k.

Need high strength fasteners for the umbrella upper lid bolted connections. These connections include the upper lid to the umbrella and the upper lid to the upper torque ring. The increase is \$3k in M&S.

Add task 1205-115A High strength fasteners for upper/lower lid bolted connections
 $41 = \$13,000 * 1.32 = \$17,160.00$.

Contingency draw = \$17,160.00

Submitted by:

Mark Smith

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...