NATIONAL SPHERICAL TORUS EXPERIMENT UPGRADE PROJECT
Engineering Change Proposal (ECP)
Part I To be Completed by Originator

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ECP-057

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Originator (CAM) Perry **Date Submitted** 10/22/2012

ECP No. 057 **ECP Title** Install 6 small ports on NSTX Vacuum Vessel

Required Reviewers (Change Control Board)
- ☒ Williams
- ☒ Strykowsky
- ☒ Dudek
- ☒ Stevenson
- ☒ Langish
- ☐ Other...

Change Level 2 Federal Project Director

Approvals

Change Level	Approving Official	Approval	Signature
3	NSTXU Project Manager	■ Yes ☐ No	Ron Strykowsky — Digitally signed by Ron Strykowsky DN: cn=Ron Strykowsky, o, ou=PPPL, email=rstrykow@pppl.gov, c=US Date: 2012.12.03 11:15:18 -05'00'
3a Expedited ECP	NSTXU Engineering Lead	☐ Yes ☐ No	
2	NSTXU Federal Project Dir.	■ Yes ☐ No	Anthony Indelicato — Digitally signed by Anthony Indelicato DN: cn=Anthony Indelicato, o=Princeton Site Office, ou=DOE-PSO, email=aindelicato@pppl.gov, c=US Date: 2012.12.04 10:45:04 -05'00'
1	Associated Director OFES	☐ Yes ☐ No	
0	Deputy Secretary of Energy	☐ Yes ☐ No	

Approval Date 12/04/2012

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

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PART I

Originator (CAM) Perry

Date Submitted 10/22/2012

Type of ECP ☒ Standard ☐ Expedited

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

Reason for Change Install six (6) CFF with 1.5" tube on the NSTX Vacuum Vessel. Job includes boring six 1.5" holes in vessel wall, fabricating six small ports, welding the ports in the vessel, fabricating one small support ring and welding on the vacuum vessel and leak checking ports when installed.

Impacted WBS Elements

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

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) **Increased cost/schedule**

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

Install six 2.75" CFF (w/ 1.5" tube) on the NSTX vacuum vessel. Job includes boring six 1.5" holes in the vacuum vessel wall, fabricating six small ports, welding the ports in the vacuum vessel, fabricating one small support ring and welding on the vacuum vessel and leak checking ports when installed.

See attached WAF (part of PDF portfolio).

Net contingency draw = $96,951.36 (priced with Primavera)

Submitted by:

Erik Perry

Digitally signed by Erik Perry
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Date: 2012.11.29 13:52:40 -05'00'

Erik Perry

Reviewed by:

Lawrence E. Dudek

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Larry Dudek

SUBMIT ECP

Do not fill in information below this point

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