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

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ECP-119

COVER PAGE

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Originator (CAM) Sichta

Date Submitted 8/20/2014

ECP No. 119

ECP Title The current work now includes additional M&S for a genuine real-time control computer, new higher-performance input/output boards, and a complete restructuring of the software architecture to achieve better reliability, improved performance, lower maintenance and future enhancement costs, and integration of DCPS. In addition, it includes a

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: 2014.09.02 10:30:52 -04'00'
3a Expedited ECP	NSTXU Engineering Lead	☐ Yes ☐ No	
2	NSTXU Federal Project Dir.	■ Yes ☐ No	ANTHONY INDELICATO — Digitally signed by ANTHONY INDELICATO DN: c=US, o=U.S. Government, ou=Department of Energy, cn=ANTHONY INDELICATO, 0.9.2342.19200300.100.1.1=89001000204102 Date: 2014.09.02 15:10:46 -04'00'
1	Associated Director OFES	☐ Yes ☐ No	
0	Deputy Secretary of Energy	☐ Yes ☐ No	

Approval Date 9/2/2014

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

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PART I

Originator (CAM) Sichta

Date Submitted 8/20/2014

Type of ECP ☒ Standard ☐ Expedited

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

Reason for Change The current work now includes additional M&S for a genuine real-time control computer, new higher-performance input/output boards, and a complete restructuring of the software architecture to achieve better reliability, improved performance, lower maintenance and future enhancement costs, and integration of DCPS. In addition, it includes a consultant to help recover from the loss of our experienced power supply engineer, who was fluent in both power engineering and specifying software

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	☐ 4501	☐ 7900
☐ 1001	☐ 1307	☐ 2475	☐ 5000	☐ 8200
☐ 1002	☐ 1310	☐ 2480	☐ 5200	☐ 8210
☐ 1200	☐ 2300	☐ 2485	☐ 5501	☐ 8250
☐ 1300	☐ 2420	☐ 2490	☒ 6100	☐ Other...
☐ 1301	☐ 2425	☐ 3200	☐ 7200	
☐ 1302	☐ 2430	☐ 3300	☐ 7300	
☐ 1303	☐ 2440	☐ 3400	☐ 7400	
☐ 1304	☐ 2450	☐ 4100	☐ 7100	
☐ 1305	☐ 2460	☐ 4500	☐ 7710	

Impacts of Change (Briefly Describe) **This ECP extends the 6100 BL through 19 Dec 2014**

Impact - BL Sched Dur Change

50

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

The current work now includes additional M&S for a genuine real-time control computer, new higher-performance input/output boards, and a complete restructuring of the software architecture to achieve better reliability, improved performance, lower maintenance and future enhancement costs, and integration of DCPS. In addition, it includes a consultant to help recover from the loss of our experienced power supply engineer, who was fluent in both power engineering and specifying software requirements.

See attached WAF.

Contingency draw: $260,438.99

Submitted by:

Paul Sichta

Digitally signed by Paul Sichta
DN: cn=Paul Sichta, o, ou=PPPL, email=psichta@pppl.gov, c=US
Date: 2014.08.20 12:28:25 -04'00'

Paul Sichta

Reviewed by:

Digitally signed by Lawrence E. Dudek
Date: 2014.08.25 16:55:24 -04'00'

Larry Dudek

SUBMIT ECP

Do not fill in information below this point