

# NATIONAL SPHERICAL TORUS EXPERIMENT UPGRADE PROJECT

## Engineering Change Proposal (ECP)

Part I To be Completed by Originator

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ECP-084

### COVER PAGE

Originator (CAM) Atnafu

Date Submitted 05/02/2013

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ECP No. 084

**ECP Title** The winning bid for the NBI Pipeline construction contract was \$668,210. This is more than the \$500,000 originally estimated by \$168,210. Plus, due to safety concern for this complex construction activity, 1 PPPL personnel is decided to monitor and assist the contractor activities at all times, in addition to the supervision by Technical Rep, QC

**Required Reviewers**  
(Change Control Board)

<input type="checkbox"/> Williams	<input checked="" type="checkbox"/> Langish
<input checked="" type="checkbox"/> Strykowski	<input type="checkbox"/> Other...
<input 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** 5/15/2013

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

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### PART I

Originator (CAM) Atnafu

Date Submitted 05/02/2013

Type of ECP ☒ Standard ☐ Expedited

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

Reason for Change The winning bid for the NBI Pipeline construction contract was \$668,210. This is more than the \$500,000 originally estimated by \$168,210. Plus, due to safety concern for this complex construction activity, 1 PPPL personnel is decided to monitor and assist the contractor activities at all times, in addition to the supervision by Technical Rep, QC and ES&H. The cost of one EE//TB for 100 work days is estimated \$80,000. Thus total cost is \$248,210.

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) A total of \$248,210 as described above.

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 winning bid for the NBI Pipeline construction contract was \$668,210. This is more than the \$500,000 originally estimated by \$168,210. Plus, due to safety concern for this complex construction activity, 1 PPPL personnel is decided to monitor and assist the contractor activities at all times, in addition to the supervision by Technical Rep, QC and ES&H. The cost of one EE//TB for 100 work days is estimated \$80,000. Thus total cost is \$248,210.

41= \$250,000 \* 1.32 = \$330,000.00

48= \$418,210 \* 1.08 = \$451,666.80

100 days EE//TB = \$93.99 = \$75,192.00

Total= \$856,858.80

BL budget = \$600,000

**Contingency draw = \$256,858.80**

Submitted by:

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Neway Atnafu

Reviewed by:

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Tim Stevenson

**SUBMIT ECP**

Do not fill in information below this point

List of  
Attachments

☐ Primavera Schedule (Before/After) ☐ Cobra (Before/After) ☐ Other...