

NATIONAL SPHERICAL TORUS EXPERIMENT UPGRADE PROJECT

Engineering Change Proposal (ECP)

Part I To be Completed by Originator

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ECP-116

COVER PAGE

Originator (CAM) Chrzanowski

Date Submitted 5/2/2014

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ECP No. 116

ECP Title In Control Account 1306 the subcontract for the fabrication of the three (3) sets of PF coils has been changed to provide and additional \$40K (equitable adjustment) plus an additional \$20K for the on-time completion of the remaining four (4) coils.

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 5/8/2014

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

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PART I

Originator (CAM) Chrzanowski

Date Submitted 5/2/2014

Type of ECP ☒ Standard ☐ Expedited

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

Reason for Change In Control Account 1306 the subcontract for the fabrication of the three (3) sets of PF coils has been changed to provide and additional \$40K (equitable adjustment) plus an additional \$20K for the on-time completion of the remaining four (4) coils.

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 ☐ 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 Increased costs
(Briefly Describe)

Impact - BL Sched Dur Change

0

Impact on Materials Parts Already Manuf. ☐ Yes ☒ No

If yes, what is recommended disposition

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UPGRADE PROJECT**

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[Detailed Description of Change](#)

**Description
of Change**

In Control Account 1306 the subcontract for the fabrication of the three (3) sets of PF coils has been changed to provide an additional \$40K (equitable adjustment) plus an additional \$20K for the on-time completion of the remaining four (4) coils.

Contingency draw: \$120,000

Submitted by:

Jim Chrzanowski

Reviewed by:

Larry Dudek

SUBMIT ECP

Do not fill in information below this point

AMENDMENT No. 4 TO
FIXED-PRICE SUBCONTRACT NO: S012485-G

The purpose of Amendment 4 to Fixed-Price Subcontract S012485-G is to:

1. Extend the performance of performance to July 15,2014;
2. Revise the delivery schedule;
3. Provide additional funding of \$40,000 in response to the Request for Equitable Adjustment, dated April 10,2014;
4. Add the total incentive fee of \$80,000 for meeting the revised delivery schedule; and
5. Incorporate revised drawings.

The changes were made in the following Articles of the subcontract:

ARTICLE I – DESCRIPTION OF WORK

1. The Delivery Schedule is hereby revised to read as follows:

Item No.	Performance Milestone	Delivery Schedule	
		FROM	TO
1	Type 1A- Lower Coil Assembly	03/31/2014	04/29/2014
2	Type 1C-Lower Coil Assembly	01/31/2014	05/19/2014
3	Type 1A- Upper Coil Assembly	03/31/2014	06/13/2014
4	Type 1C- Upper Coil Assembly	01/31/2014	06/30/2014

2. The following revised drawing set is hereby incorporated into the subcontract by reference, and supersedes all previous versions of the referenced drawing set:

No.	Drawing No.	Last Revision Level (Base Subcontract)	Revised Revision Level (Amendment 4)	Title	No. of Sheets
1	E-DC 1452	1	2	PF-1B Lower and Upper Coil Assemblies	11

ARTICLE II – TERM OF SUBCONTRACT

The period of performance end date of the subcontract is hereby extended from March 31, 2014 to July 15, 2014.

ARTICLE III –CONSIDERATION AND FUNDING

1. The incentive fee of \$20,000 per coil for meeting the following delivery dates is hereby incorporated into the subcontract S012485-G:

No.	Deliverable Item	Delivery Date	Incentive Fee
1	Type 1A- Lower Coil Assembly	04/29/2014	\$20,000.00
2	Type 1C-Lower Coil Assembly	05/19/2014	\$20,000.00
3	Type 1A- Upper Coil Assembly	06/13/2014	\$20,000.00
4	Type 1C- Upper Coil Assembly	06/30/2014	\$20,000.00
Total Incentive Fee:			\$80,000.00

2. In response to the Subcontractor's Request for Equitable Adjustment (REA), attached as Attachment 1 to this Amendment, the total subcontract firm fixed price, exclusive of incentive fees, is hereby increased by \$40,000.00, from \$386,431.00 to \$426,431.00.

In consideration of this subcontract price increase, the Subcontractor agrees to the following Statement of Release:

In consideration of the modification agreed herein as complete equitable adjustments for the Subcontractor's request, dated April 10, 2014, the Subcontractor hereby releases PPPL from any and all liability under this subcontract for further adjustments attributable to such facts or circumstances giving rise to the Subcontractor's Request for Equitable Adjustment with no exception.

3. The funding summary of the subcontract S012485-G was revised as follows:

Base Subcontract:	\$369,872.00
Amendment No.1:	\$ 16,559.00
Amendment No.2:	\$ 0.00
Amendment No.3:	<u>\$ 0.00</u>
Total Obligated Amount Prior to This Amendment:	\$386, 431.00
Amendment No.4 - Equitable Adjustment:	<u>\$ 40,000.00</u>
Total Firm Fixed Price Obligated amount:	\$426,431.00
Total Incentive Fee:	<u>\$ 80,000.00</u>
Total Price and Incentive Fee:	\$506,431.00

4. Subcontractor agrees to provide the items and services, specified in the Manufacturing Specification for Fabrication of Inner Poloidal Field (PF) Coils # D-NSTX-SPEC-134-137, Revision 1, dated December 6, 2013, **for the Firm Fixed Price of \$426,431.00 and Incentive Fee of \$20,000 per each of the four (4) abovementioned coils.**

The total amount of \$506,431.00 is obligated and currently available for payment.

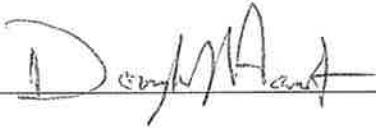
5. Except as amended above, all terms and conditions of the original Subcontract, as previously amended, remain unchanged and in full force and effect.

Attachments:

1. Everson Tesla's Request for Equitable Adjustment, dated April 10, 2014, 3 pages
2. Drawings E-DC 1452, Revision 2, dated 12/09/2013, 11 pages

IN WITNESS WHEREOF, the Parties hereto have executed this Subcontract Amendment:

EVERSON TESLA INCORPORATED:

BY: 

TYPED: Douglas Hartman

TITLE: Sr. Program Manager

DATE: April, 29, 2014

THE TRUSTEES OF PRINCETON
UNIVERSITY:

BY: 

TYPED: RODNEY D. TEMPLON

TITLE: DIRECTOR OF PROCUREMENT

DATE: 4/30/2014