### NATIONAL SPHERICAL TORUS EXPERIMENT **UPGRADE PROJECT**

# Engineering Change Proposal (ECP) Part I To be Completed by Originator

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WAD Updated RAM Updated

**ECP-117** 

		LOI 117	
<b>COVER PA</b>	GE		Ton
Originator (CAM)	Chrzanowski Perry	Date Submitted	6/9/2014 <b>Top</b>
ECP No  Required  Reviewers  (Change  Control Board  Change Leve	☐ Williams ☐ Langish ☐ Strykowsky ☐ Other	ECP Title	In control Account 1304 Purchase Order PE013500 has been issued for another set of outer TF connectors (lead extensions). In Control Account 8250 tasks 8250-157, 8250-161, 8250-165, and 8250-169 have been replaced by the shorter bakeout activity 8250-165A.
	A	provals	
Change Level	Approving Official	Approval	Signature
3	NSTXU Project Manager	☐ Yes ☐ No	
3a Expedited ECP	NSTXU Engineering Lead	☐ Yes ☐ No	
2	NSTXU Federal Project Dir.	☐ Yes ☐ No	
1	Associated Director OFES	☐ Yes ☐ No	
0	Deputy Secretary of Energy	☐ Yes ☐ No	
	Approval Date 6/11/	2014	Primavera Updated Cobra Updated

### NATIONAL SPHERICAL TORUS EXPERIMENT **UPGRADE PROJECT**

## Engineering Change Proposal (ECP) Part I To be Completed by Originator



**ECP-117** 

PART I			
Originator (CAM)	Chrzanowski Perry	Date Submitted 6/9/2014	
Type of ECP	⊠ Standard □ Expedited		
Type of Change (Check all that apply	☐Technical ⊠Cost ☐Sch	nedule	
Reason for Change	outer TF connectors (lead exte	ase Order PE013500 has been issued for another set on the consions). In Control Account 8250 tasks 8250-157, 8250 have been replaced by the shorter bakeout activity	-
Impacted WBS Elements	<ul> <li>1.1</li></ul>		
Control Accounts	□ 1000     □ 1306     □ 2470     □ 450       □ 1001     □ 1307     □ 2475     □ 500       □ 1002     □ 1310     □ 2480     □ 520       □ 1200     □ 2300     □ 2485     □ 550       □ 1300     □ 2420     □ 2490     □ 610       □ 1301     □ 2425     □ 3200     □ 720       □ 1302     □ 2430     □ 3300     □ 730       □ 1303     □ 2440     □ 3400     □ 740       ⋈ 1304     □ 2450     □ 4100     □ 770       □ 1305     □ 2460     □ 4500     □ 770	00	
Impacts of Change (Briefly Describe) Impact - BL Sched Dur Change	Increased costs for TF lead extens	ions	
Impact on Materials Parts Already Manuf.	● Yes ○ No		
If yes, what is recommended disposition	_	not usable due to material issues. This PO will replace	

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**ECP-117** 

#### **Detailed Description of Change**

-	In Control Account 1304. Puro TF connectors (lead extension	hase Order PE013500 has been issued for another set of outerns).
	Cost: \$197,910.00 * \$1.35= \$26	37,178.50
	Delete activities: 8250-157 Setup for bakeout 8250-161 Rayleigh/Raman Sca 8250-165 Bakeout 8250-169 Recover from bakeo Budget: \$241,026.72	_
	Add new bakeout activity: 8250-165A Bakeout/scrub Resources: EM//TB=1152 *\$10	7.76 = \$124,139.52
	Contingency draw: \$150,291.3	<mark>0</mark>
	Submitted by:	
	Jim Chrzanowski	Erik Perry
	Reviewed by:	

Larry Dudek

SUBMIT ECP

Do not fill in information below this point



Princeton University

Procurement Division

Purchase Order Page 1 of 3

Number Date

PE013500-W 6/4/2014 FOB

FRT PPD & BILLED BEST WAY FOB Destination

**Buyer:** Arlene White (609) 243-2080

P.O. Box 451

Princeton NJ 08543-0451

Plasma Physics Laboratory

Vendor:

Confirmed With

TOM MARTINEZ

MARTINEZ & TUREK

300 SOUTH CEDAR AVENUE

Ship to: Princeton Plasma Physics Laboratory

Receiving No. 3

US Rte 1 North at Sayre Drive

Princeton NJ 08543

RIALTO CA 92376

Bill To: Princeton Plasma Physics Laboratory

Attn: General Accounting

P.O. Box 451

Princeton NJ 08543-0451

PPP	L is Tax Exempt.			NJ State Tax	Exemption No. E-210-63	34-501/000
<b>L/N</b> 1	-	Delivery Date  8/15/2014  Type A per Drawing	Deliver To  Zatz, Irving	Qty U/M 26.00 Each	<b>Unit Price</b> 1 \$1,915.0000	<b>Ext Price</b> \$49,790.0
		sed for fabrication1		. 2 dated		
2		8/15/2014	Zatz, Irving	14.00 Each	\$2,420.0000	\$33,880.0
		s, Type B per Drawing ased for fabrication		7. 3 dated		
3		8/15/2014	Zatz, Irving	14.00 Each	\$2,750.0000	\$38,500.00
		Type C per Drawing Nased for fabrication		3 dated		
4		8/15/2014	Zatz, Irving	14.00 Each	å \$3,030.0000	\$42,420.0
		s Type D per Drawing ased for fabrication!		3 dated		
5		8/15/2014	Zatz, Irving	14.00 Each	\$2,380.0000	\$33,320.00
		s Type E per Drawing ased for fabrication!		3 dated		
6		8/15/2014	Zatz, Irving	1.00 Each	\$0.0000	\$0.00
		tion for RWMA Class :		er Chromium		
7				1.00 Each	\$0.0000	\$0.00

Payment Terms

Delivery

8/15/2014 NET15

8/15/2014 Zatz, Irving

After Final Machining: All parts to be subjected to "Dye Penetrant and Ultrasonic Testing"



Princeton University Plasma Physics Laboratory Procurement Division P.O. Box 451

Princeton NJ

Vendor:

MARTINEZ & TUREK

300 SOUTH CEDAR AVENUE

08543-0451

RIALTO CA 92376

Confirmed With TOM MARTINEZ

Delivery

8/15/2014 NET15 Purchase Order Page 2 of

Date

3

6/4/2014 Shipping Via

FOB

FOB Destination

BEST WAY

(609) 243-2080

Ship to: Princeton Plasma Physics Laboratory

Receiving No. 3

US Rte 1 North at Sayre Drive

Princeton NJ 08543

Bill To: Princeton Plasma Physics Laboratory

Attn: General Accounting

P.O. Box 451

Princeton NJ 08543-0451

PPPL is Tax Exempt.

NJ State Tax Exemption No. E-210-634-501/000

L/N Description

Delivery Date Deliver To

Number

Payment Terms

PE013500-W

Freight Terms

FRT PPD & BILLED

Buyer: Arlene White

Qty U/M Total Unit Price

Ext Price \$197,910.00

Unless otherwise stated, the current version of the PPPL Terms and Conditions for Commercial Items or Services, as attached to this order, are hereby incorporated and apply to this order. Should you supply the goods and services called for by this order, the order and its terms and conditions will be deemed to have been accepted by you, and supersede any terms you may state on your invoice or acknowledgments. PPPL will not be liable for late payment charges. Discount period, if applicable, to begin when both invoice and goods

Send all correspondence, acknowledgments, etc. relating to this order to Princeton Plasma Physics Laboratory, Procurement Division, P.O. Box 451, Princeton, NJ 08543-0451. All shipments, shipping papers, invoices and correspondence must reference our P.O. Number. Overshipments will not be accepted unless authorized by the Buyer prior to shipment.

have been received by PPPL, unless otherwise agreed.

Princeton University

Stanford Schoen

Purchase Order Page 3 of 3

Number Date PE013500-W 6/4/2014

Princeton University Plasma Physics Laboratory Procurement Division P.O. Box 451

Princeton NJ 08543-0451

Vendor:

MARTINEZ & TUREK 300 SOUTH CEDAR AVENUE

RIALTO CA 92376

Bill To: Princeton Plasma Physics Laboratory Attn: General Accounting P.O. Box 451

Princeton NJ 08543-0451

Notes:

WORKSCOPE:

- 1. Fabrications shall be performed in accordance with Drawing E-DC1456, E-DC1457, E-DC1458, E-DC1459 and E-DC1460, Rev. 3 for all dated 5/14/2014 and released for fabrication 5/14/2014.
- 2. Parts to be EB welded as required.
- 3. Quality Assurance Requirements for Items and Services is incorporated into this award.

#### Attachments:

PPPL Comm. Terms & Conditions (Rev. 20)

Drawing E-DC1457, Rev. 3

Drawing E-DC1458, Rev. 3

Drawing E-DC1459, Rev. 3

Drawing E-DC1460, Rev. 3

Quailty Assurance Requirements Drawing E-DC1456, Rev.2