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

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

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ECP-079							
<b>COVER PA</b>	GE						
Originator (CAM)	Smith	Date Submitted	03/25/2013 Top				
ECP No.	079	ECP Title	In Control Account 1200. The bolted connection				
Required Reviewers (Change Control Board)	⊠ Dudek		between the lower lid and the pedestal require redesign and analysis.				
Change Level	2 Federal Project Director						
Approvals							
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					
T							

☐ Yes ☐ No

☐ Yes ☐ No

**Approval Date** 4/19/2013

**Associated Director OFES** 

**Deputy Secretary of Energy** 

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Primavera Updated	
Cobra Updated	
WAD Updated	
RAM Updated	

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**ECP-079** 

PART I		
Originator (CAM)	Smith	Date Submitted 03/25/2013
Type of Change (Check all that apply)	Standard □Expedited □Technical □Cost □Schedule □Editoria In Control Account 1200. The bolted connection be pedestal require re-design and analysis.	
Impacted WBS Elements		
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)	Modifications required for the bolted connection between man hours required for redesign, model & drawing ECN increase.	
Impact on Materials Parts Already Manuf.	● Yes ○ No	
	When the redesign is complete and validated, eximodified or replaced as needed.	isting parts will either be used,

disposition

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

Description of Change	Modifications required for the bolted connection between the pedestal and lower lid. Additional man hours required for redesign, model & drawing ECN's, and analysis. 16 man hours needed for a designer. 8 man hours needed for EMEM. 8 man hours needed for EAEM.
	Increased M&S cost for either replacement of parts and/or high friction coated shim plates: \$2K.
	16 man/hrs EA//SB = 16 * 139.86 = \$2,237.76 8 man/hrs EA//EM = 8 * 215.73 = \$1,725.84 8 man/hrs EM//EM = 8 * 177.14 = \$1,417.12 M&S (41) = \$2,000 * 1.32 = \$2,640.00 Add new activity to 1200 to address the above budget elements.
	Total contingency draw = \$8,020.72
	Submitted by:
	Mark Smith
	Reviewed by:
	Larry Dudek

SUBMIT ECP

Do not fill in information below this point

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