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| **NATIONAL SPHERICAL TORUS EXPERIMENT UPGRADE PROJECT****Engineering Change Proposal (ECP)** |
| ***COVER PAGE******(TO BE COMPLETED BY SYSTEMS ENGINEERING SUPPORT MANAGER)*** |
| **Originator:**  **Chrzanowski/Perry** | **Date: 9/19/2011** |
| **ECP No:**      **004** | **ECP Title: CA 1304 change to TF procurement (cost/schedule) and CA 8200 restructured and split into two CA’s 8200 (LOE)/8210 (cost/schedule)** |
| **Required Reviewers** |
| **Required Reviewers for this ECP:** Jim Chrzanowski, Erik Perry, Mike Williams |
| **ECP Approval Level****Expedited ECP? [ ]  Yes [x]  No****Change Level:** Approving Official:  |
| **Actions**      |
| ***APPROVALS*** ***(TO BE COMPLETED BY APPROVING OFFICIALS)*** |
| **Change Level** | **Approving Official** | **Approval?** | **Signature** |
| **3** | **NSTXU Project Manager** | **[ ]  Yes [ ]  No** |  |
| **3a** **(Expedited ECP)** | **NSTXU Engineering Lead** | **[ ] Yes [ ]  No** |  |
| **2** | **NSTXU Federal Project Director** | **[ ] Yes [ ]  No** |  |
| **1** | **Associate Director OFES** | **[ ] Yes [ ]  No** |  |
| **0** | **Deputy Secretary of Energy** | **[ ] Yes [ ]  No** |  |

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| **NATIONAL SPHERICAL TORUS EXPEREIMENT UPGRADE PROJECT****Engineering Change Proposal (ECP)** |
| ***PART I*** ***(TO BE COMPLETED BY ORIGINATOR)*****ECP-** |
| **Originator:**       **Chrzanowski/Perry** | **Date: 9/19/2011** |
| **Overview of Change****Type of ECP: [ ]  EXPEDITED [x]  STANDARD** **Type of Change: [ ]  TECHNICAL** **[x]  COST [x]  SCHEDULE** **[ ]  EDITORIAL****(Check all that Apply**)**Reason for Change:** Update Control Account 1304 to show the procurement (machining, FSW, lead extensions) of the inner TF. Also contingency request for same.Update Control Account 8200. 8200 is now 8210. 8200 is an LOE account to cover 8210 work. This update is a complete overhaul of schedule for CS & Coil Support Structure Installation. Also contingency request for same.**Impacted WBS Elements:**       1.1 (1304) 1.8 (8200/8210)**Impacts of Change (Briefly Describe):**      No impact to Level I, II, or III milestones or critical path**Does this Change Impact Material Already Procured or Parts/Assemblies Already Assembled/Manufactured using this Material: [ ]  Yes** **[x]  No****If “Yes”, what is the recommended disposition of this material/part/assembly?**      **Assessment of Other Options:**       |

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| **NATIONAL SPHERICAL TORUS UPGRADE PROJECT****Engineering Change Proposal (ECP)** |
| **PART I** **(TO BE COMPLETED BY ORIGINATOR)** |
| **Originator:**       **Chrzanowski/Perry** | **Date: 9/19/2011** |
| **Detailed Description of the Change:****(Use Continuation Sheets and/or Attach Information/Sketches, As Needed)****List Attachments, Impacted Documents, etc.**      Initial NSTX-U Baseline P3 schedule / Cobra baseline schedule AND Updated P3 schedule/Cobra Schedule**Description of Change:** Control Account 1304. Tasks 1304-0750 Machine TF conductors and 1304-0790 were closed. Negative BCWS entries were entered to zero the BCWS for these tasks. New tasks were added (see attached) which comply with the subcontract that is in place. Some additional $0 budget tasks were also deleted from 1304. They were to support the original procurement. Contingency request of **$782,174.05** is requested to cover this procurement.Control Account 8200. Total restructuring under new CAM. Control Account 8200 is now a LOE account for Field Supervision& Oversight of 8210. Two tasks that had started in 8200 have been retained all other tasks in 8200 and 8210 are new. Contingency request of **$332,339.38** is requested to cover this restructured Control Account.Total contingency draw of **$1,114,513.43.** |

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| **NATIONAL SPHERICAL TORUS UPGRADE PROJECT****Engineering Change Proposal (ECP)** |
| ***PART I CONTINUATION SHEET******(TO BE COMPLETED BY ORIGINATOR)*** |
| **Originator:**       **Chrzanowski/Perry** | **Date: 9/19/2011** |
|       |

**Reviewer Comment Guidelines**

Reviewers will complete a reviewer comment sheet (either using the Part II form included in this procedure or in any other acceptable format such as e-mail, word, etc.). The reviewer comment sheet shall contain at a minimum the following information:

* ECP Number and Title;
* Reviewer Name;
* Indications on whether or not corrections needed and the specific modifications/corrections needed (e.g., additional reviewers, correction to impact statements, modifications to the ECP to include other impacted documents, etc.);
* Whether or not the reviewer concurs in the ECP without comment or concurrence if recommended modifications/corrections are made.

This information should be submitted to the Systems Engineering Support Manager who will tally all the comments and attempt to reach a resolution with the ECP initiator.

A sample Part II of the ECP form is follows in this attachment if the reviewer opts to utilize it.

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| **NATIONAL SPHERICAL TORUS UPGRADE PROJECT****Engineering Change Proposal (ECP)** |
| ***PART II*** ***(TO BE COMPLETED BY REVIEWERS)*** |
| **ECP No: 004** | **ECP Title: CA 1304 change to TF procurement and CA 8200 restructured and split into two CA’s 8200 (LOE)/8210** |
| **Reviewer:** **Corrections Needed?** **[ ]  Yes** **[ ]  No** * **If yes, identify corrections needed:**

**Concur?** **[ ]  Yes** **[ ]  No** * **Provide reasons for concurrence/rejection:**

**Other Recommendations?** **[ ]  Yes** **[ ]  No** * **Identify Recommendations**

**NOTE: Forward completed Part II to Systems Engineering Support Manager via e-mail indicating that your review is completed.** |

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| **NATIONAL SPHERICAL TORUS UPGRADE PROJECT** **Engineering Change Proposal (ECP)** |
| ***PART II CONTINUATION SHEET******(TO BE COMPLETED BY REVIEWER)*** |
| **Originator:**       **Chrzanowski/Perry** | **Date: 9/19/2011** |
|       |

***NOTE: Part II – Review Form will be multiple pages from each reviewer.***