

NATIONAL COMPACT STELLARATOR PROJECT

Engineering Change Proposal (ECP)

COVER PAGE

(TO BE COMPLETED BY SYSTEMS ENGINEERING SUPPORT MANAGER)

Originator: Ron Strykowski

Date: March 2, 2005

ECP No: 024

ECP Title: Miscellaneous Rescheduling and Contingency Draw for Added and Re-Estimated Scope

Required Reviewers

Required Reviewers for this ECP:

P. Goranson, B. Nelson, M. Kalish, W. Reiersen, E. Perry, G. Gettlefinger, T. Brown, J. Levine, J. Malsbury

ECP Approval Level

Expedited ECP? ☐ Yes ☒ No

Change Level: 2 Federal Project Director

Approving Official: 2 Federal Project Director

Actions

- (1) Revise VVSA Schedule to reflect revised delivery schedules
- (2) Add Dimensional Coordinator to WBS 82 – prepare WAF => contingency draw of \$58.5K
- (3) Retire FY2004 Scope for WBS 81 => contingency draw of \$145.7K
- (4) Reschedule WBS 13 job 1301 final design of the TF coil system from 2/28/05 to 5/1/05 => contingency draw of \$111.2K

Net contingency draw for these actions of \$315.4K

APPROVALS

(TO BE COMPLETED BY APPROVING OFFICIALS)

Change Level	Approving Official	Approval?	Signature
3	NCSX Project Manager	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
3a (Expedited ECP)	NCSX Engineering Manager	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2	NCSX Federal Project Director	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
1	Associate Director OFES	<input type="checkbox"/> Yes <input type="checkbox"/> No	
0	Under Secretary of Energy	<input type="checkbox"/> Yes <input type="checkbox"/> No	

NATIONAL COMPACT STELLARATOR PROJECT

Engineering Change Proposal (ECP)

PART I *(TO BE COMPLETED BY ORIGINATOR)*

Originator: Ron Strykowski

Date: March 2, 2005

Overview of Change

Type of ECP: ☐ EXPEDITED ☒ STANDARD

Type of Change: ☒ TECHNICAL ☒ COST ☒ SCHEDULE ☐ EDITORIAL

Reason for Change: Miscellaneous rescheduling , added and re-estimated scope. Will require contingency draw of ~ \$315.4K.

Impacted WBS Elements: WBS 12, WBS 81, WBS 82, & WBS 13

Impacts of Change (Briefly Describe):

- 1) The VVSA fabrication job WBS12, Job 1250 was rescheduled to factor in the latest delivery forecasts by the contractor, Major Tool and Machine. The change resulted from unexpected delays in the tooling design effort, attributed to the challenging shell geometry. Now that the shell segmentation scheme and the die requirements have been established, and material commitments secured, a new schedule can be established with greater certainty. All vessel shell sectors will be delivered by 2/28/06 which satisfies the level II milestone for vessel delivery. Also, we broke out as separate deliveries the ports and spacer now planned for 6/1/06. This schedule leaves 2 months or more of free float relative to the critical path. Possible cost changes resulting from these geometry challenges are still under discussion and will be addressed in a future ECP.
- 2) New scope; Dimensional control task in WBS 82, Job 8205. The need for this new work, which consists of developing procedures for accurate construction and assembly of coils, was clarified as a result of the twisted racetrack R&D activity this fiscal year. We are requesting \$58.5K of contingency to provide budget for the remainder of FY05 (0.25 fte plus travel). Future year budget requirements are TBD.
- 3) Prior year scope retirement WBS 81 job 8101 PPPL project management effort for FY04. \$145.7k contingency draw.
- 4) Retired risks in preliminary design associated with cost overruns due to design modifications adopted to reduce technical risks. Also rescheduled WBS 13 job 1301 final design review of the TF coil system from 2/28/05 to 5/1/05 and re-estimated final design based on results of the Preliminary Design Review just completed. \$111.2K contingency draw.

Total draw on contingency; \$315.4 Contingency reduced from \$12,756K to \$12,440K.

Assessment of Other Options: None

Attachments:

- (1) Revised Master Schedule for ECP-024
- (2) Budget Reconciliation between ECP-021 and ECP-024