

NATIONAL COMPACT STELLARATOR PROJECT

Engineering Change Proposal (ECP)

COVER PAGE

(TO BE COMPLETED BY SYSTEMS ENGINEERING SUPPORT MANAGER)

Originator: Bob Simmons

Date: April 20, 2005

ECP No: 029

ECP Title: Retirement of Risks for VVSA Forming Dies and Twisted Racetrack Assembly

Required Reviewers

Required Reviewers for this ECP:

Paul Goranson, Dave Williamson, Brad Nelson, Jim Chrzanowski, Ron Strkowsky, Wayne Reiersen, Judy Malsbury

ECP Approval Level

Expedited ECP? ☐ Yes ☒ No

Change Level: 2 Federal Project Director

Approving Official: 2 Federal Project Director

Actions

Revise Cost Baseline by April 30, 2005 (Schedule Baseline revised in ECP-024)

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: Bob Simmons

Date: April 20, 2005

Overview of Change

Type of ECP: ☐ **EXPEDITED** ☒ **STANDARD**

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

(Check all that Apply)

Reason for Change: Retirement of risks.

Impacted WBS Elements: WBS 12 and WBS 14

Impacts of Change (Briefly Describe):

- **WBS 12** – This change reflects the additional forming dies for the VVSA. Originally, the supplier had anticipated re-using the dies from the prototype effort, however design changes made between the fabrication of dies for the prototype casting and the final production VVSA, invalidated that assumption. ECP-024 (approved in early March, 2005) identified the schedule impact, but identified that the cost impact was still being assessed and negotiated. This ECP now captures the cost impact of \$431K. This risk is now retired as the contract value has been adjusted to reflect these additional costs.
- **WBS 14** – the Twisted Racetrack Coil Assembly proved to be an invaluable learning experience, but resulted in some unanticipated cost overruns of \$400K. This activity was completed at the end of March, 2005, satisfying a Joule milestone, so the risk is now retired.
- **Impact of Contingency** – a drawdown of \$831K from \$12,441K to \$11,610K. The TEC remains at \$86,345K.

Assessment of Other Options: None

List Attachments, Impacted Documents, etc.: None