

NATIONAL COMPACT STELLARATOR PROJECT

Engineering Change Proposal (ECP)

COVER PAGE

(TO BE COMPLETED BY SYSTEMS ENGINEERING SUPPORT MANAGER)

Originator: Hutch Neilson

Date: 12/15/2003

ECP No: ECP-04-003

ECP Title: FY2004 Management Reserve Disbursements

Required Reviewers

Required Reviewers for this ECP:

W. Reiersen (Engineering Manager) & Ron Strykowski (NCSX Project Control Manager)

ECP Approval Level

Expedited ECP? ☐ Yes ☒ No

Change Level: 4

Approving Official: NCSX Project Manager

Actions

Approve proposed FY2004 Management Reserve Disbursements

APPROVALS

(TO BE COMPLETED BY APPROVING OFFICIALS)

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

NATIONAL COMPACT STELLARATOR PROJECT

Engineering Change Proposal (ECP)

PART I *(TO BE COMPLETED BY ORIGINATOR)*

Originator: G. H. Neilson

Date: December 15, 2003

Overview of Change

Type of ECP: ☐ EXPEDITED ☒ STANDARD

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

(Check all that Apply)

Reason for Change:

Approval of Initial Management Reserve Plan for FY-04. Plan has the concurrence of the NCSX Federal Project Director.

Impacted WBS Elements: None

Impacts of Change (Briefly Describe):

Impacts FY-04 Work Plans

Assessment of Other Options:

Management Reserve requirements are based on analysis of risks and criticality of planned FY-04 work.

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Engineering Change Proposal (ECP)

PART I

(TO BE COMPLETED BY ORIGINATOR)

Originator: G. H. Neilson

Date: December 15, 2003

Detailed Description of the Change:

(Use Continuation Sheets and/or Attach Information/Sketches, As Needed)

List Attachments, Impacted Documents, etc.

Management Reserve Plan and Concurrence Memo from Federal project Director

Description of Change:

See attached

NCSX Management Reserve Planning (\$k)

Fiscal Year:	2004
Date:	11/7/2003

Current Plans	PPPL	ORNL	Total Comments
Budget	15,596	2,280	17,876 Includes FY03 carryover and \$600k PPPL-->ORNL transfer
Work Planned / Authorized	12,886	2,387	15,273 Includes \$833k for VV, \$1,651k for MCWF fab. Contracts (~30%)
Management Reserve Available	2,710	(107)	2,603
Management Reserve Needs for ORNL scope	1,496	-	1,496
for PPPL scope	669		669
	827		827
Available to accel. work	1,215	(107)	1,108
Accel. cryostat & base structure design	405		
Accel. F.P. Assy Tooling design, R&D, procurement	405		
Accel. Power Systems Design/Procurement	405		

Comments

\$669k (29%) is currently held at PPPL as management reserve to cover risks in ORNL scope, most of which is high-risk, and close to critical path. PPPL management reserve is only needed to cover a few high risk critical path design and R&D tasks. Many PPPL tasks are low-risk or non-critical-path so do not require large amounts of management reserve. PPPL plans include a large amount budgeted for fab. contracts to be placed late in the fiscal year, which can be reduced if necessary to cover overruns in high-risk, critical path prototype tasks. Work scheduled for FY05 can be accelerated to reduce schedule risks.

Hutch Neilson

Mon, Dec 15, 2003 15:14

Subject: FW: NCSX Management Reserve Plans
Date: Wednesday, December 10, 2003 15:16
From: Greg Pitonak <gpitonak@pppl.gov>
To: "Hutch_Neilson (Hutch_Neilson)" <hneilson@pppl.gov>, 'Lyon_Jim' <lyonjf@ornl.gov>
Cc: Gene Nardella <Gene.Nardella@science.doe.gov>

Based on our discussions as well as yesterday's IPT meeting discussions please proceed with the management reserve disbursements as outlined in the attached spreadsheet. As we also discussed, an ECP documenting this action should be prepared for project records.

Tks, Greg

-----Original Message-----

From: Hutch Neilson [mailto:hneilson@pppl.gov]
Sent: Monday, December 01, 2003 5:25 PM
To: Greg Pitonak
Subject: NCSX Management Reserve Plans

Greg,
Here is a proposed management reserve status report format that we can use to keep everyone on the same page on this topic. At this time, I believe we are in a position to move some FY-05 scope forward and still have adequate reserves. Let's discuss at your earliest convenience.
Hutch