

NATIONAL COMPACT STELLARATOR PROJECT

Engineering Change Proposal (ECP)

COVER PAGE

(TO BE COMPLETED BY SYSTEMS ENGINEERING SUPPORT MANAGER)

Originator: Paul Goranson

Date: 11/04/2004 (11/24/04 – Revision 1)

ECP No: ECP-017

ECP Title: Modification of Vacuum Vessel Subassembly (VVSA) Inner Support Bosses to Utilize Simplified Hangers

Required Reviewers

Required Reviewers for this ECP: WBS Manager, WBS 1 Project Engineer, Engineering Manager, QA, Project Manager

ECP Approval Level

Expedited ECP? ☐ Yes ☒ No

Change Level: 3 Project

Approving Official: 3 Reg ECP - Project Manager

Actions

Update listed documents to reflect approved changes.

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 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	

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PART I *(TO BE COMPLETED BY ORIGINATOR)*

Originator: Paul Goranson

Date: 11/04/2004 (11/24/04 – Revision 1)

Overview of Change

Type of ECP: ☐ EXPEDITED ☒ STANDARD

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

(Check all that Apply)

Reason for Change: To incorporate a new support design which will streamline assembly and installation procedures for VVSA, and incorporate editorial changes and vendor recommendations.

Impacted WBS Elements: 1202

Impacts of Change (Briefly Describe):

The change will reduce complexity and cost of VVSA handling and installation.

Assessment of Other Options: None

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Detailed Description of the Change:

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

List Attachments, Impacted Documents, etc. (Revision 1)

Ref :

- (1) ECN-4933 Revision 1
- (2) VVSA Product Specification For the Vacuum Vessel System Sub-Assembly (NCSX-CSPEC-121-02-03)

Description of Change:

- (1) ECN 4933 Revision 1 replaces previous model and drawing files with three zip files:

ZIP File	Model Description (from Pro/Intralink database, edited)	Rev
VV_Prod_pdf_Files_Rev1.zip	ZIP file containing pdf drawing files including Rev 1 changes	1
VV_Prod_ProEModels_Rev1.zip	ZIP file containing all ProE models including rev 1 changes	1
VV_Prod_step_Rev1.zip	ZIP file containing all step files including Rev 1 changes. Also contains step files for the die geometry.	1

- (2) NCSX-CSPEC-121-02-03 incorporates the following changes:
 - a. Updated standards listing in Section 2.1 to add some omitted standards and their effective dates.
 - b. Revised Appendix A to reflect the table above