

NATIONAL COMPACT STELLARATOR PROJECT

Engineering Change Proposal (ECP)

COVER PAGE

(TO BE COMPLETED BY SYSTEMS ENGINEERING SUPPORT MANAGER)

Originator: David Williamson	Date: June 28, 2004
ECP No: ECP-04-010 Revision 1	ECP Title: Prototype Winding Form Poloidal Break Geometry

Required Reviewers

Required Reviewers for this ECP:
P. Heitzenroeder

ECP Approval Level

Expedited ECP? ☒ Yes ☐ No

Change Level: 3 Project

Approving Official: 3a Expedited ECP - Engineering Manager

Actions

- Update CSPEC NCSX-CSPEC-141-01-04
- Update drawing SE141-116P to reflect approved changes

APPROVALS

(TO BE COMPLETED BY APPROVING OFFICIALS)

Change Level	Approving Official	Approval?	Signature
3	NCSX Project Manager	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3a (Expedited ECP)	NCSX Engineering Manager	<input checked="" 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	

NATIONAL COMPACT STELLARATOR PROJECT

Engineering Change Proposal (ECP)

PART I *(TO BE COMPLETED BY ORIGINATOR)*

Originator: David Williamson

Date:

Overview of Change

Type of ECP: ☒ EXPEDITED ☐ STANDARD

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

(Check all that Apply)

Reason for Change:

Vendor recommends 2.25-in cut through entire winding form section as a means of simplifying the shim geometry and improving fit-up of the shim, insulators, and bolts.

Impacted WBS Elements: WBS 141 Modular Coil Winding Form

Impacts of Change (Briefly Describe): This change will:

- Improve the shim and installation fit-up
- Remove the jog in the insulation path
- Will result in an increased width of the cut at the tee web (plasma side)
- Will not have a cost or schedule impact.

Assessment of Other Options: None

Detailed Description of the Change:

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

List Attachments, Impacted Documents, etc.

Drawing SE141-116P, Rev-1 incorporates these changes.

Description of Change:

- SE141-116P, Sheet 1, Quad B2 – changed weight from 5575-lbs to 5104-lbs
- SE141-116P, Sheet 1, Quad A2 – Added typed name/date to drawing approval column
- SE141-116P, Sheet 7, Quad C5 – changed 0.75-in cut to 2.25-in cut thru
- SE141-116P, Sheet 7, Quad D2 – added Section C-C
- SE141-116P, Sheet 7, Quad C7– changed 90-deg to basic dimension
- SE141-116P, Sheet 7, Quad C3– changed 15-deg to basic dimension
- SE141-116P, Sheet 7, Quad H3 – changed hole position dimension from 1.50-in to 1.65-in –
(added by Rev 1)
- SE141-116P, Sheet 7, Quad H5 – changed hole size from 1.50-in to 1.625-in diameter thru
(added by Rev 1)