

NATIONAL COMPACT STELLARATOR PROJECT

Engineering Change Proposal (ECP)

COVER PAGE

(TO BE COMPLETED BY SYSTEMS ENGINEERING SUPPORT MANAGER)

Originator: David Williamson

Date: 7/27/04

ECP No: ECP-04-12

ECP Title: Modification to lead block and upper inb vertical support for production mod coil winding form type-c

Required Reviewers

Required Reviewers for this ECP:

P. Heitzenroeder, L. Dudek

ECP Approval Level

Expedited ECP? ☒ Yes ☐ No

Change Level: 0 Under Secretary

Approving Official: 0 Under Secretary

Actions

Update drawing SE141-116 to reflect approved changes

Update Table 6-1 of specification NCSX-CSPEC-141-03 to drawing and models have been revised

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:

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 reversal of upper inboard vertical support pocket to improve placement of risers and gating on the part for casting. Lead block dimensional changes are proposed in response to design review comments and some winding activities associated with the twisted racetrack coil.

Impacted WBS Elements: WBS 141 Modular Coil Winding Form

Impacts of Change (Briefly Describe):

This change will improve the casting process by allowing optimum placement of risers on the part. The support utilizes tapped holes, and there are no known access issues due to reversal of the pocket.

The change in electrical lead block dimensions will improve the configuration of the conductors as they exit the winding pack and provide space for additional insulation and mechanical support.

Assessment of Other Options: None

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PART I *(TO BE COMPLETED BY ORIGINATOR)*

Originator:

Date:

Detailed Description of the Change:

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

List Attachments, Impacted Documents, etc.

Drawing SE141-116, Revision #1 incorporates these changes.

Description of Change:

SE141-116, Sheet 1, Quad G4 - View shows pocket reversal in upper inb vertical support

SE141-116, Sheet 8, Quad C7 - Changed cutout dimension from 4.50 to 6.38-in

SE141-116, Sheet 8, Quad C7 - Changed protrusion dimension from 4.50 to 5.88-in

SE141-116, Sheet 8, Quad C7 - Added height dimension to protrusion, 0.4 +/-0. -in

<p>NATIONAL COMPACT STELLARATOR PROJECT Engineering Change Proposal (ECP)</p>

<p><i>PART I</i> <i>(TO BE COMPLETED BY ORIGINATOR)</i></p>

<p>Originator:</p>	<p>Date:</p>
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Continuation Sheet:

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