

# NATIONAL COMPACT STELLARATOR PROJECT

## Engineering Change Proposal (ECP)

### COVER PAGE

*(TO BE COMPLETED BY SYSTEMS ENGINEERING SUPPORT MANAGER)*

Originator: Dave Williamson

Date: April 26, 2004

ECP No: 04-007

ECP Title: Twisted Racetrack VPI Groove Depth

### Required Reviewers

Required Reviewers for this ECP:

P. Heitzenroeder, L. Dudek

### ECP Approval Level

Expedited ECP? ☒ Yes ☐ No

Change Level: 3 Project

Approving Official: 3a Expedited ECP - Engineering Manager

### Actions

- (1) Prepare ECN to incorporate changes approved by this ECP
- (2) Revise Sheet-2 of Drawing SE140-084, Rev-1 to reflect change approved
- (3) Revise Twisted Racetrack Coil contract to reflect change
- (4) Revise WAF 1406 as appropriate to reflect change

### 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:** Dave Williamson

**Date:** April 26, 2004

#### **Overview of Change**

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

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

(Check all that Apply)

**Reason for Change:**

**R&D indicates that VPI groove depth should be increased from 0.22-in to 0.32-in  
This is shown in Detail-2, Sheet-2 of Drawing SE140-084, Rev-1**

**Impacted WBS Elements:**

**WBS14 Modular Coil R&D Activities, Job #1406**

**Impacts of Change (Briefly Describe):**

**Potential increase in machining time, however the fabricator does not see a significant impact.**

**Assessment of Other Options:**

**None have been assessed. It is desired to make the twisted racetrack features prototypical.**

# **NATIONAL COMPACT STELLARATOR PROJECT**

## **Engineering Change Proposal (ECP)**

### ***PART I***

#### ***(TO BE COMPLETED BY ORIGINATOR)***

**Originator:** Dave Williamson

**Date:** April 26, 2004

#### **Detailed Description of the Change:**

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

#### **List Attachments, Impacted Documents, etc.**

Drawing SE140-084, Rev-1 incorporates this change.

#### **Description of Change:**

Increase depth of VPI groove, shown in Detail-2, Sheet-2 from 0.22-in to 0.32-in

<p><b>NATIONAL COMPACT STELLARATOR PROJECT</b> <b>Engineering Change Proposal (ECP)</b></p>
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<p><b><i>PART I</i></b> <b><i>(TO BE COMPLETED BY ORIGINATOR)</i></b></p>
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<p><b>Originator: Dave Williamson</b></p>
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<p><b>Date: April 26, 2004</b></p>
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<p><b><u>Continuation Sheet:</u></b></p>
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<p><b>(Use Continuation Sheets and/or Attach Information/Sketches, As Needed)</b></p>
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N/A