NATIONAL COMPACT STELLARATOR PROJECT
Engineering Change Proposal (ECP)

COVER PAGE
(TO BE COMPLETED BY SYSTEMS ENGINEERING SUPPORT MANAGER)

Originator: Wayne Reiersen	**Date:** July 14, 2006
ECP No: 048	**ECP Title:** Update of GRD (Rev 4)

Required Reviewers

Required Reviewers for this ECP: Hutch Neilson

ECP Approval Level

Expedited ECP? ☐ **Yes** ☒ **No**
Change Level: 3 Project
Approving Official: 3 Reg ECP - Project Manager

Actions

Document updated GRD Rev 4 approved February 20, 2006.

APPROVALS
(TO BE COMPLETED BY APPROVING OFFICIALS)

Change Level	Approving Official	Approval?	Signature
3	NCSX Project Manager	☒ Yes ☐ No	Hutch Neilson Digitally signed by Hutch Neilson DN: CN = Hutch Neilson, C = US, OU = PPPL Date: 2006.07.16 17:47:36 -04'00'
3a (Expedited ECP)	NCSX Engineering Manager	☐ Yes ☐ No	
2	NCSX Federal Project Director	☐ Yes ☐ No	
1	Associate Director OFES	☐ Yes ☐ No	
0	Deputy Secretary of Energy	☐ Yes ☐ No	

NATIONAL COMPACT STELLARATOR PROJECT
Engineering Change Proposal (ECP)

PART I
(TO BE COMPLETED BY ORIGINATOR)
ECP- 048

Originator: Wayne Reiersen	**Date: July 14, 2006**

Overview of Change

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

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

(Check all that Apply)

Reason for Change: Periodic update of GRD

Impacted WBS Elements: All

Impacts of Change (Briefly Describe):

- **Appendix A – Updated the Technical Data Sheet to reflect the use of PF1A for initial operation.** ***This change was approved as part of ECP-39. No ECP is expected to berequired for approval of Rev. 4 because the other changes are editorial in nature.***
- **Section 3.2.1.2.1 Coil Cool-down (Background) - Corrected mis-wording by changing "up to less than 150 cool-down and warm-up cycles" to "up to 150 cooldown and warm-up cycles".**
- **Section 3.3.1.2b Vacuum Compatibility - Changed "All in-vessel components shall be made of vacuum compatible materials and degreased and cleaned. They shall be vacuum baked prior to installation, except when authorized by the project." to "All in-vessel components shall be made of vacuum compatible materials and degreased and cleaned. They shall be vacuum baked** ***and degassed at a bakeout temperatureexceeding the maximum operating temperature*** **prior to installation, except whenauthorized by the project." as suggested by M. Zarnstorff.**
- **Section 5 Notes, which was blank, was deleted.**
- **Section 2.4 Other Documents, which was blank, was deleted.**

Does this Change Impact Material Already Procured or Parts/Assemblies Already Assembled/Manufactured using this Material: ☐ **Yes** ☒ **No**

If "Yes", what is the recommended disposition of this material/part/assembly?

Assessment of Other Options: None

List Attachments, Impacted Documents, etc.

- **NCSX-ASPEC-GRD-04**